# Department of Defense
# Fiscal Year (FY) 2018 Budget Estimates

May 2017

## Army

*Justification Book of*

## *Other Procurement, Army*

## Communications and Electronics Equipment, Budget Activity 2

# PROCUREMENT OF OTHER PROCUREMENT, ARMY

## APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of Other Procurement, Army, equipment, including ordnance, spare parts, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefore, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, $7,657,744.00 to remain available for obligation until September 30, 2019.

## COST STATEMENT

The following Justification Books were prepared at a cost of $250,916: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 6, and Budget Activity 7.

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| 29 | 02 | 18 | K47800 | NAVSTAR Global Positioning System (SPACE) | 68 |
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***Appropriation 2035A: Other Procurement, Army***


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| 47 | 02 | 32 | B55510 | Tactical Communications And Protective System | 110 |
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***Appropriation 2035A: Other Procurement, Army***


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***Appropriation 2035A: Other Procurement, Army***


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| Army CA/MISO GPF Equipment | BK6285 | 53 | 02 | 36 | 117 |
| Army Global Cmd & Control Sys (AGCCS) | BA8250 | 36 | 02 | 24 | 80 |
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| Automated Data Processing Equip | BD3000 | 110 | 02 | 92 | 368 |
| BCT Emerging Technologies | B88801 | 118 | 02 | 98 | 422 |
| Base Expeditiary Targeting and Surv Sys | BZ6501 | 88 | 02 | 86 | 267 |
| Base Support Communications | BU4160 | 60 | 02 | 72 | 144 |
| Biometric Tactical Collection Devices (MIP) | BK5300 | 77 | 02 | 80 | 221 |
| CI Automation Architecture | BK5284 | 51 | 02 | 36 | 115 |
| CI HUMINT Auto Reprting and Coll(CHARCS) | BK5275 | 74 | 02 | 80 | 213 |
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| Counterintelligence/Security Countermeasures | BL5283 | 83 | 02 | 83 | 235 |
| DCGS-A (MIP) | BZ7316 | 70 | 02 | 80 | 185 |
| Defense Enterprise Wideband Satcom Systems | BB8500 | 26 | 02 | 18 | 38 |
| Defense Military Deception Initiative | K61010 | 52 | 02 | 36 | 116 |
| Defensive CYBER Operations | B63000 | 57 | 02 | 64 | 138 |
| ENROUTE MISSION COMMAND (EMC) | B08400 | 33 | 02 | 18 | 74 |
| EW Planning & Management Tools (EWPMT) | K00002 | 79 | 02 | 83 | 228 |
| Emergency Management Modernization Program | BU8000 | 62 | 02 | 73 | 162 |
| FAMILY OF BIOMETRICS | BA1300 | 54 | 02 | 64 | 118 |
| FAMILY OF WEAPON SIGHTS (FWS) | K22001 | 90 | 02 | 86 | 278 |
| Family Of Persistent Surveillance Capabilities | BL5287 | 82 | 02 | 83 | 233 |
| Family of Med Comm for Combat Casualty Care | MA8000 | 49 | 02 | 32 | 113 |
| Fire Support C2 Family | B28501 | 99 | 02 | 89 | 332 |
| General Fund Enterprise Business Systems Fam | B55500 | 111 | 02 | 92 | 402 |
| Global Brdcst Svc - GBS | BC4120 | 31 | 02 | 18 | 72 |
| Global Combat Support System-Army (GCSS-A) | W30001 | 105 | 02 | 89 | 350 |

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| High Perf Computing Mod Pgm (HPCMP) | B66501 | 112 | 02 | 92 | 404 |
| Home Station Mission Command Centers | B33000 | 63 | 02 | 73 | 163 |
| IAMD Battle Command System | BZ5075 | 101 | 02 | 89 | 340 |
| Indirect Fire Protection Family Of Systems | BZ0501 | 89 | 02 | 86 | 268 |
| Information System Security Program-ISSP | TA0600 | 55 | 02 | 64 | 119 |
| Information Systems | BB8650 | 61 | 02 | 73 | 148 |
| Insider Threat Program - Unit Activity Monitoring | B89000 | 58 | 02 | 64 | 142 |
| Installation Info Infrastructure Mod Program | BU0500 | 64 | 02 | 73 | 167 |
| Integrated Personnel and Pay System-Army (IPPS-A) | B66701 | 106 | 02 | 89 | 360 |
| Items Less Than $5M (Surveying Equipment) | BL5300 | 116 | 02 | 95 | 418 |
| JCSE Equipment (USREDCOM) | BB5777 | 23 | 02 | 12 | 36 |
| JOINT BATTLE COMMAND - PLATFORM (JBC-P) | W61990 | 93 | 02 | 86 | 294 |
| JOINT EFFECTS TARGETING SYSTEM (JETS) | K32101 | 94 | 02 | 86 | 304 |
| JTT/CIBS-M | V29600 | 67 | 02 | 80 | 183 |
| Joint Incident Site Communications Capability | B00009 | 22 | 02 | 12 | 35 |
| Joint Tactical Ground Station (JTAGS) | BZ8401 | 71 | 02 | 80 | 192 |
| Joint Tactical Radio System | B90000 | 37 | 02 | 32 | 81 |
| Life Cycle Software Support (LCSS) | BD3955 | 102 | 02 | 89 | 342 |
| Lightweight Counter Mortar Radar | B05201 | 78 | 02 | 83 | 223 |

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| MID-TIER NETWORKING VEHICULAR RADIO (MNVR) | B51001 | 39 | 02 | 32 | 95 |
| MOD of In-Svc Equipment (ENFIRE) | B99901 | 108 | 02 | 89 | 364 |
| Machine Foreign Language Translation System-MFLTS | B88605 | 76 | 02 | 80 | 220 |
| Maneuver Control System (MCS) | BA9320 | 104 | 02 | 89 | 345 |
| Mod Of In-Svc Equip (LLDR) | KA3100 | 95 | 02 | 86 | 312 |
| Mod Of In-Svc Equip (TAC SAT) | BB8417 | 32 | 02 | 18 | 73 |
| Mod of In-Svc Equip (INTEL SPT) (MIP) | BZ9750 | 73 | 02 | 80 | 202 |
| Mod-In-Service Profiler | K27910 | 35 | 02 | 20 | 79 |
| Mortar Fire Control System | K99300 | 97 | 02 | 86 | 315 |
| NAVSTAR Global Positioning System (SPACE) | K47800 | 29 | 02 | 18 | 68 |
| Network Management Initialization and Services | BA9301 | 103 | 02 | 89 | 343 |
| Night Vision Devices | KA3500 | 86 | 02 | 86 | 250 |
| Persistent Cyber Training Environment | B65010 | 59 | 02 | 64 | 143 |
| Production Base Support (C-E) | BF5400 | 117 | 02 | 98 | 420 |
| Profiler | K27900 | 92 | 02 | 86 | 293 |
| Prophet Ground | BZ7326 | 68 | 02 | 80 | 184 |
| Radio Terminal Set, MIDS LVT(2) | B22603 | 40 | 02 | 32 | 100 |
| Reconnaissance and Surveying Instrument Set | BZ9966 | 107 | 02 | 89 | 362 |
| Reserve Component Automation Sys (RCAS) | BE4167 | 114 | 02 | 92 | 410 |
| SHF Term | BA9350 | 28 | 02 | 18 | 66 |

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| Sentinel Mods | WK5057 | 85 | 02 | 86 | 237 |
| Signal Modernization Program | B00010 | 20 | 02 | 12 | 20 |
| Small Tactical Optical Rifle Mounted MLRF | K35110 | 87 | 02 | 86 | 265 |
| Soldier Enhancement Program Comm/Electronics | BA5300 | 46 | 02 | 32 | 109 |
| Spider Family of Networked Munitions Incr | B54020 | 45 | 02 | 32 | 107 |
| TACTICAL DIGITAL MEDIA | B68501 | 115 | 02 | 95 | 416 |
| TRACTOR DESK | BC3000 | 42 | 02 | 32 | 103 |
| TROJAN (MIP) | BA0326 | 72 | 02 | 80 | 194 |
| Tactical Communications And Protective System | B55510 | 47 | 02 | 32 | 110 |
| Tactical Network Technology Mod In Svc | B07100 | 21 | 02 | 73 | 30 |
| Tractor Ride | B03001 | 43 | 02 | 32 | 104 |
| Transportable Tactical Command Communications (T2C | B85800 | 27 | 02 | 18 | 58 |
| Unified Command Suite | B58601 | 48 | 02 | 32 | 112 |
| WIN-T - Ground Forces Tactical Network | BW7100 | 19 | 02 | 12 | 1 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

| Appropriation | FY 2016 Base + OCO | FY 2017 PB Request with CR Adj Base | FY 2017 Total PB Requests* with CR Adj Base |
|---|---|---|---|
| Other Procurement, Army | 6,818,676 | 5,707,940 | 6,157,285 |
| Total Department of the Army | 6,818,676 | 5,707,940 | 6,157,285 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

| Appropriation | FY 2017 PB Request with CR Adj OCO | FY 2017 Total PB Requests* with CR Adj OCO | FY 2017 Less Enacted Div B P.L.114-254** OCO | FY 2017 Remaining Req with CR Adj OCO |
|---|---|---|---|---|
| Other Procurement, Army | 1,175,596 | 1,572,459 | -72,000 | 1,500,459 |
| Total Department of the Army | 1,175,596 | 1,572,459 | -72,000 | 1,500,459 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

| Appropriation | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA | FY 2017 Total PB Requests* with CR Adj Base + OCO | FY 2017 Less Enacted Div B P.L.114-254** OCO | FY 2017 Remaining Req with CR Adj Base + OCO |
|---|---|---|---|---|
| Other Procurement, Army | 6,955,536 | 7,729,744 | -72,000 | 7,657,744 |
| Total Department of the Army | 6,955,536 | 7,729,744 | -72,000 | 7,657,744 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

.01 May 2017

| Appropriation | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|
| Other Procurement, Army | 6,469,331 | 405,575 | 6,874,906 |
| Total Department of the Army | 6,469,331 | 405,575 | 6,874,906 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: Other Procurement, Army

| Budget Activity | FY 2016 Base + OCO | FY 2017 PB Request with CR Adj Base | FY 2017 Total PB Requests* with CR Adj Base |
|---|---|---|---|
| 01. Tactical and Support Vehicles | 1,811,284 | 842,481 | 842,481 |
| 02. Communications and Electronics Equipment | 3,441,818 | 3,632,369 | 4,029,365 |
| 03. Other Support Equipment | 1,519,423 | 1,371,856 | 1,424,205 |
| 04. Spare and Repair Parts | 46,151 | 27,243 | 27,243 |
| 20. Undistributed | | -166,009 | -166,009 |
| Total Other Procurement, Army | 6,818,676 | 5,707,940 | 6,157,285 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: Other Procurement, Army

| Budget Activity | FY 2017 PB Request with CR Adj OCO | FY 2017 Total PB Requests* with CR Adj OCO | FY 2017 Less Enacted Div B P.L.114-254** OCO | FY 2017 Remaining Req with CR Adj OCO |
|---|---|---|---|---|
| 01. Tactical and Support Vehicles | 876,512 | 876,512 | | 876,512 |
| 02. Communications and Electronics Equipment | 254,988 | 622,299 | -72,000 | 550,299 |
| 03. Other Support Equipment | 241,510 | 271,062 | | 271,062 |
| 04. Spare and Repair Parts | | | | |
| 20. Undistributed | -197,414 | -197,414 | | -197,414 |
| Total Other Procurement, Army | 1,175,596 | 1,572,459 | -72,000 | 1,500,459 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: Other Procurement, Army

| Budget Activity | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA | FY 2017 Total PB Requests* with CR Adj Base + OCO | FY 2017 Less Enacted Div B P.L.114-254** OCO | FY 2017 Remaining Req with CR Adj Base + OCO |
|---|---|---|---|---|
| 01. Tactical and Support Vehicles | 1,718,993 | 1,718,993 | | 1,718,993 |
| 02. Communications and Electronics Equipment | 3,959,357 | 4,651,664 | -72,000 | 4,579,664 |
| 03. Other Support Equipment | 1,613,366 | 1,695,267 | | 1,695,267 |
| 04. Spare and Repair Parts | 27,243 | 27,243 | | 27,243 |
| 20. Undistributed | -363,423 | -363,423 | | -363,423 |
| Total Other Procurement, Army | 6,955,536 | 7,729,744 | -72,000 | 7,657,744 |

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 1, 2017 at 14:36:26

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: Other Procurement, Army

| Budget Activity | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|
| 01. Tactical and Support Vehicles | 1,245,581 | 146,657 | 1,392,238 |
| 02. Communications and Electronics Equipment | 3,826,384 | 200,932 | 4,027,316 |
| 03. Other Support Equipment | 1,359,097 | 57,986 | 1,417,083 |
| 04. Spare and Repair Parts | 38,269 | | 38,269 |
| 20. Undistributed | | | |
| Total Other Procurement, Army | 6,469,331 | 405,575 | 6,874,906 |

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| Budget Activity 01: Tactical and Support Vehicles | | | | | | | | | |
| Tactical Vehicles | | | | | | | | | |
| 1 | Tactical Trailers/Dolly Sets | A | | 6,018 | | 3,733 | | 3,733 | U |
| 2 | Semitrailers, Flatbed: | A | | 53 | | 3,716 | | 3,716 | U |
| 3 | Ambulance, 4 LITTER, 5/4 TON, 4x4 | | | 60,000 | | | | | U |
| 4 | Ground Mobility Vehicles (GMV) | A | | | | 4,907 | | 4,907 | U |
| 5 | ARNG HMMWV Modernization Program | A | | 100,000 | | | | | U |
| 6 | Joint Light Tactical Vehicle | A | 686 | 249,911 | 1828 | 587,514 | 1828 | 587,514 | U |
| 7 | Truck, Dump, 20t (CCE) | | | | | 3,927 | | 3,927 | U |
| 8 | Family of Medium Tactical Veh (FMTV) | | 1155 | 334,038 | 8 | 53,293 | 8 | 53,293 | U |
| 9 | Firetrucks & Associated Firefighting Equip | | | 8,444 | | 7,460 | | 7,460 | U |
| 10 | Family of Heavy Tactical Vehicles (FHTV) | | | 30,849 | 430 | 39,564 | 430 | 39,564 | U |
| 11 | Pls Esp | A | | 127,102 | | 11,856 | | 11,856 | U |
| 12 | Hvy Expanded Mobile Tactical Truck Ext Serv | | | 223,276 | | | | | U |
| 13 | Tactical Wheeled Vehicle Protection Kits | A | | 44,292 | | 49,751 | | 49,751 | U |
| 14 | Modification of In Svc Equip | | | 204,193 | | 64,000 | | 64,000 | U |
| 15 | Mine-Resistant Ambush-Protected (MRAP) Mods | A | | 412,246 | | 10,611 | | 10,611 | U |
| Non-Tactical Vehicles | | | | | | | | | |
| 16 | Heavy Armored Sedan | | | | | 394 | | 394 | U |

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 1, 2017 at 14:36:26

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Budget Activity 01: Tactical and Support Vehicles** | | | | | | | | | | |
| | Tactical Vehicles | | | | | | | | | | |
| 1 | Tactical Trailers/Dolly Sets | A | | | | | | | | | U |
| 2 | Semitrailers, Flatbed: | A | | 4,180 | | 4,180 | | | | 4,180 | U |
| 3 | Ambulance, 4 LITTER, 5/4 TON, 4x4 | | | | | | | | | | U |
| 4 | Ground Mobility Vehicles (GMV) | A | | | | | | | | | U |
| 5 | ARNG HMMWV Modernization Program | A | | | | | | | | | U |
| 6 | Joint Light Tactical Vehicle | A | | | | | | | | | U |
| 7 | Truck, Dump, 20t (CCE) | | | | | | | | | | U |
| 8 | Family of Medium Tactical Veh (FMTV) | | 1092 | 299,476 | 1092 | 299,476 | | | 1092 | 299,476 | U |
| 9 | Firetrucks & Associated Firefighting Equip | | | | | | | | | | U |
| 10 | Family of Heavy Tactical Vehicles (FHTV) | | 51 | 6,122 | 51 | 6,122 | | | 51 | 6,122 | U |
| 11 | Pls Esp | A | | 106,358 | | 106,358 | | | | 106,358 | U |
| 12 | Hvy Expanded Mobile Tactical Truck Ext Serv | | | 203,766 | | 203,766 | | | | 203,766 | U |
| 13 | Tactical Wheeled Vehicle Protection Kits | A | | 101,154 | | 101,154 | | | | 101,154 | U |
| 14 | Modification of In Svc Equip | | | 155,456 | | 155,456 | | | | 155,456 | U |
| 15 | Mine-Resistant Ambush-Protected (MRAP) Mods | A | | | | | | | | | U |
| | Non-Tactical Vehicles | | | | | | | | | | |
| 16 | Heavy Armored Sedan | | | | | | | | | | U |

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Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Budget Activity 01: Tactical and Support Vehicles** | | | | | | | | | | |
| | Tactical Vehicles | | | | | | | | | | |
| 1 | Tactical Trailers/Dolly Sets | A | | 3,733 | | 3,733 | | | | 3,733 | U |
| 2 | Semitrailers, Flatbed: | A | | 7,896 | | 7,896 | | | | 7,896 | U |
| 3 | Ambulance, 4 LITTER, 5/4 TON, 4x4 | | | | | | | | | | U |
| 4 | Ground Mobility Vehicles (GMV) | A | | 4,907 | | 4,907 | | | | 4,907 | U |
| 5 | ARNG HMMWV Modernization Program | A | | | | | | | | | U |
| 6 | Joint Light Tactical Vehicle | A | 1828 | 587,514 | 1828 | 587,514 | | | 1828 | 587,514 | U |
| 7 | Truck, Dump, 20t (CCE) | | | 3,927 | | 3,927 | | | | 3,927 | U |
| 8 | Family of Medium Tactical Veh (FMTV) | | 1100 | 352,769 | 1100 | 352,769 | | | 1100 | 352,769 | U |
| 9 | Firetrucks & Associated Firefighting Equip | | | 7,460 | | 7,460 | | | | 7,460 | U |
| 10 | Family of Heavy Tactical Vehicles (FHTV) | | 481 | 45,686 | 481 | 45,686 | | | 481 | 45,686 | U |
| 11 | Pls Esp | A | | 118,214 | | 118,214 | | | | 118,214 | U |
| 12 | Hvy Expanded Mobile Tactical Truck Ext Serv | | | 203,766 | | 203,766 | | | | 203,766 | U |
| 13 | Tactical Wheeled Vehicle Protection Kits | A | | 150,905 | | 150,905 | | | | 150,905 | U |
| 14 | Modification of In Svc Equip | | | 219,456 | | 219,456 | | | | 219,456 | U |
| 15 | Mine-Resistant Ambush-Protected (MRAP) Mods | A | | 10,611 | | 10,611 | | | | 10,611 | U |
| | Non-Tactical Vehicles | | | | | | | | | | |
| 16 | Heavy Armored Sedan | | | 394 | | 394 | | | | 394 | U |

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(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| Budget Activity 01: Tactical and Support Vehicles | | | | | | | | | |
| Tactical Vehicles | | | | | | | | | |
| 1 | Tactical Trailers/Dolly Sets | A | | 9,716 | | | | 9,716 | U |
| 2 | Semitrailers, Flatbed: | A | | 14,151 | | | | 14,151 | U |
| 3 | Ambulance, 4 LITTER, 5/4 TON, 4x4 | | | 53,000 | | | | 53,000 | U |
| 4 | Ground Mobility Vehicles (GMV) | A | | 40,935 | | | | 40,935 | U |
| 5 | ARNG HMMWV Modernization Program | A | | | | | | | U |
| 6 | Joint Light Tactical Vehicle | A | 2110 | 804,440 | | | 2110 | 804,440 | U |
| 7 | Truck, Dump, 20t (CCE) | | | 967 | | | | 967 | U |
| 8 | Family of Medium Tactical Veh (FMTV) | | | 78,650 | | | | 78,650 | U |
| 9 | Firetrucks & Associated Firefighting Equip | | | 19,404 | | | | 19,404 | U |
| 10 | Family of Heavy Tactical Vehicles (FHTV) | | | 81,656 | | 25,874 | | 107,530 | U |
| 11 | Pls Esp | A | | 7,129 | | | | 7,129 | U |
| 12 | Hvy Expanded Mobile Tactical Truck Ext Serv | | | | | 38,628 | | 38,628 | U |
| 13 | Tactical Wheeled Vehicle Protection Kits | A | | 43,040 | | | | 43,040 | U |
| 14 | Modification of In Svc Equip | | | 83,940 | | 64,647 | | 148,587 | U |
| 15 | Mine-Resistant Ambush-Protected (MRAP) Mods | A | | | | 17,508 | | 17,508 | U |
| Non-Tactical Vehicles | | | | | | | | | |
| 16 | Heavy Armored Sedan | | | 269 | | | | 269 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 17 | Passenger Carrying Vehicles | | | 1,248 | | | | | U |
| 18 | Nontactical Vehicles, Other | A | | 9,614 | | 1,755 | | 1,755 | U |
| | Total Tactical and Support Vehicles | | | 1,811,284 | | 842,481 | | 842,481 | |
| | Budget Activity 02: Communications and Electronics Equipment | | | | | | | | |
| | Comm - Joint Communications | | | | | | | | |
| 19 | Win-T - Ground Forces Tactical Network | A | | 695,116 | | 427,598 | | 427,598 | U |
| 20 | Signal Modernization Program | A | | 47,024 | | 58,250 | | 58,250 | U |
| 21 | Tactical Network Technology Mod In Svc | A | | | | | | | U |
| 22 | Joint Incident Site Communications Capability | A | | 4,062 | | 5,749 | | 5,749 | U |
| 23 | JCSE Equipment (USREDCOM) | | | 6,455 | | 5,068 | | 5,068 | U |
| | Comm - Satellite Communications | | | | | | | | |
| 24 | Defense Enterprise Wideband Satcom Systems | | | 172,306 | | 143,805 | | 143,805 | U |
| 25 | Transportable Tactical Command Communications | A | | 47,305 | | 36,580 | | 36,580 | U |
| 26 | SHF Term | | | 7,629 | | 1,985 | | 1,985 | U |
| 27 | Navstar Global Positioning System (SPACE) | B | | 14,027 | | | | | U |
| 28 | Smart-T (SPACE) | | | 13,453 | | 9,165 | | 9,165 | U |
| 29 | Global Brdcst Svc - GBS | | | 6,265 | | | | | U |
| 30 | Mod of In-Svc Equip (TAC SAT) | | | 1,042 | | | | | U |
| 31 | Enroute Mission Command (EMC) | A | | 7,116 | | | | | U |

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| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Passenger Carrying Vehicles | | | | | | | | | | U |
| 18 | Nontactical Vehicles, Other | A | | | | | | | | | U |
| | Total Tactical and Support Vehicles | | | 876,512 | | 876,512 | | | | 876,512 | |
| | Budget Activity 02: Communications and Electronics Equipment | | | | | | | | | | |
| | Comm - Joint Communications | | | | | | | | | | |
| 19 | Win-T - Ground Forces Tactical Network | A | | 9,572 | | 9,572 | | | | 9,572 | U |
| 20 | Signal Modernization Program | A | | | | | | | | | U |
| 21 | Tactical Network Technology Mod In Svc | A | | | | | | | | | U |
| 22 | Joint Incident Site Communications Capability | A | | | | | | | | | U |
| 23 | JCSE Equipment (USREDCOM) | | | | | | | | | | U |
| | Comm - Satellite Communications | | | | | | | | | | |
| 24 | Defense Enterprise Wideband Satcom Systems | | | | | | | | | | U |
| 25 | Transportable Tactical Command Communications | A | | | | | | | | | U |
| 26 | SHF Term | | | 24,000 | | 24,000 | | | | 24,000 | U |
| 27 | Navstar Global Positioning System (SPACE) | B | | | | | | | | | U |
| 28 | Smart-T (SPACE) | | | | | | | | | | U |
| 29 | Global Brdcst Svc - GBS | | | | | | | | | | U |
| 30 | Mod of In-Svc Equip (TAC SAT) | | | | | | | | | | U |
| 31 | Enroute Mission Command (EMC) | A | | | | | | | | | U |

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| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Passenger Carrying Vehicles | | | | | | | | | | U |
| 18 | Nontactical Vehicles, Other | A | | 1,755 | | 1,755 | | | | 1,755 | U |
| Total Tactical and Support Vehicles | | | | 1,718,993 | | 1,718,993 | | | | 1,718,993 | |
| Budget Activity 02: Communications and Electronics Equipment | | | | | | | | | | | |
| Comm - Joint Communications | | | | | | | | | | | |
| 19 | Win-T - Ground Forces Tactical Network | A | | 437,170 | | 437,170 | | | | 437,170 | U |
| 20 | Signal Modernization Program | A | | 58,250 | | 58,250 | | | | 58,250 | U |
| 21 | Tactical Network Technology Mod In Svc | A | | | | | | | | | U |
| 22 | Joint Incident Site Communications Capability | A | | 5,749 | | 5,749 | | | | 5,749 | U |
| 23 | JCSE Equipment (USREDCOM) | | | 5,068 | | 5,068 | | | | 5,068 | U |
| Comm - Satellite Communications | | | | | | | | | | | |
| 24 | Defense Enterprise Wideband Satcom Systems | | | 143,805 | | 143,805 | | | | 143,805 | U |
| 25 | Transportable Tactical Command Communications | A | | 36,580 | | 36,580 | | | | 36,580 | U |
| 26 | SHF Term | | | 25,985 | | 25,985 | | | | 25,985 | U |
| 27 | Navstar Global Positioning System (SPACE) | B | | | | | | | | | U |
| 28 | Smart-T (SPACE) | | | 9,165 | | 9,165 | | | | 9,165 | U |
| 29 | Global Brdcst Svc - GBS | | | | | | | | | | U |
| 30 | Mod of In-Svc Equip (TAC SAT) | | | | | | | | | | U |
| 31 | Enroute Mission Command (EMC) | A | | | | | | | | | U |

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(Dollars in Thousands)

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| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 17 | Passenger Carrying Vehicles | | | 1,320 | | | | 1,320 | U |
| 18 | Nontactical Vehicles, Other | A | | 6,964 | | | | 6,964 | U |
| | Total Tactical and Support Vehicles | | | 1,245,581 | | 146,657 | | 1,392,238 | |
| | Budget Activity 02: Communications and Electronics Equipment | | | | | | | | |
| | Comm - Joint Communications | | | | | | | | |
| 19 | Win-T - Ground Forces Tactical Network | A | | 420,492 | | | | 420,492 | U |
| 20 | Signal Modernization Program | A | | 92,718 | | 4,900 | | 97,618 | U |
| 21 | Tactical Network Technology Mod In Svc | A | | 150,497 | | | | 150,497 | U |
| 22 | Joint Incident Site Communications Capability | A | | 6,065 | | | | 6,065 | U |
| 23 | JCSE Equipment (USREDCOM) | | | 5,051 | | | | 5,051 | U |
| | Comm - Satellite Communications | | | | | | | | |
| 24 | Defense Enterprise Wideband Satcom Systems | | | 161,383 | | | | 161,383 | U |
| 25 | Transportable Tactical Command Communications | A | | 62,600 | | | | 62,600 | U |
| 26 | SHF Term | | | 11,622 | | | | 11,622 | U |
| 27 | Navstar Global Positioning System (SPACE) | B | | | | | | | U |
| 28 | Smart-T (SPACE) | | | 6,799 | | | | 6,799 | U |
| 29 | Global Brdcst Svc - GBS | | | 7,065 | | | | 7,065 | U |
| 30 | Mod of In-Svc Equip (TAC SAT) | | | | | | | | U |
| 31 | Enroute Mission Command (EMC) | A | | 21,667 | | | | 21,667 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 32 | Spectrum Microwave | | | 14,679 | | | | | U |
| | Comm - Combat Support Comm | | | | | | | | |
| 33 | Mod-In-Service Profiler | A | | | | | | | U |
| | Comm - C3 System | | | | | | | | |
| 34 | Army Global Cmd & Control Sys (AGCCS) | A | | 8,291 | | 2,530 | | 2,530 | U |
| | Comm - Combat Communications | | | | | | | | |
| 35 | Joint Tactical Radio System | A | | 54,640 | | | | | U |
| 36 | Handheld Manpack Small Form Fit (HMS) | A | | | 5656 | 273,645 | | 273,645 | U |
| 37 | Mid-Tier Networking Vehicular Radio (MNVR) | A | | 22,762 | | 25,017 | | 25,017 | U |
| 38 | Radio Terminal Set, Mids Lvt(2) | A | | 9,422 | | 12,326 | | 12,326 | U |
| 39 | AMC Critical Items - OPA2 | A | | 11,643 | | | | | U |
| 40 | Tractor Desk | | | 4,073 | | 2,034 | | 2,034 | U |
| 41 | Tractor Ride | | | | | 2,334 | | 2,334 | U |
| 42 | Spider Apla Remote Control Unit | A | | 1,683 | | 1,985 | | 1,985 | U |
| 43 | Spider Family of Networked Munitions Incr | A | | 9,199 | | 10,796 | | 10,796 | U |
| 44 | Soldier Enhancement Program Comm/Electronics | | | 349 | | | | | U |
| 45 | Tactical Communications and Protective System | A | | 25,597 | | 3,607 | | 3,607 | U |
| 46 | Unified Command Suite | A | | 21,854 | | 14,295 | | 14,295 | U |
| 47 | Family of Med Comm for Combat Casualty Care | A | | 24,388 | | 19,893 | | 19,893 | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Spectrum Microwave | | | | | | | | | | U |
| | Comm - Combat Support Comm | | | | | | | | | | |
| 33 | Mod-In-Service Profiler | A | | | | | | | | | U |
| | Comm - C3 System | | | | | | | | | | |
| 34 | Army Global Cmd & Control Sys (AGCCS) | A | | | | | | | | | U |
| | Comm - Combat Communications | | | | | | | | | | |
| 35 | Joint Tactical Radio System | A | | | | | | | | | U |
| 36 | Handheld Manpack Small Form Fit (HMS) | A | | | | | | | | | U |
| 37 | Mid-Tier Networking Vehicular Radio (MNVR) | A | | | | | | | | | U |
| 38 | Radio Terminal Set, Mids Lvt(2) | A | | | | | | | | | U |
| 39 | AMC Critical Items - OPA2 | A | | | | | | | | | U |
| 40 | Tractor Desk | | | | | | | | | | U |
| 41 | Tractor Ride | | | | | | | | | | U |
| 42 | Spider Apla Remote Control Unit | A | | | | | | | | | U |
| 43 | Spider Family of Networked Munitions Incr | A | | | | | | | | | U |
| 44 | Soldier Enhancement Program Comm/Electronics | | | | | | | | | | U |
| 45 | Tactical Communications and Protective System | A | | | | | | | | | U |
| 46 | Unified Command Suite | A | | | | | | | | | U |
| 47 | Family of Med Comm for Combat Casualty Care | A | | | | | | | | | U |

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| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | Spectrum Microwave | | | | | | | | | | U |
| | Comm - Combat Support Comm | | | | | | | | | | |
| 33 | Mod-In-Service Profiler | A | | | | | | | | | U |
| | Comm - C3 System | | | | | | | | | | |
| 34 | Army Global Cmd & Control Sys (AGCCS) | A | | 2,530 | | 2,530 | | | | 2,530 | U |
| | Comm - Combat Communications | | | | | | | | | | |
| 35 | Joint Tactical Radio System | A | | | | | | | | | U |
| 36 | Handheld Manpack Small Form Fit (HMS) | A | 5656 | 273,645 | | 273,645 | | | | 273,645 | U |
| 37 | Mid-Tier Networking Vehicular Radio (MNVR) | A | | 25,017 | | 25,017 | | | | 25,017 | U |
| 38 | Radio Terminal Set, Mids Lvt(2) | A | | 12,326 | | 12,326 | | | | 12,326 | U |
| 39 | AMC Critical Items - OPA2 | A | | | | | | | | | U |
| 40 | Tractor Desk | | | 2,034 | | 2,034 | | | | 2,034 | U |
| 41 | Tractor Ride | | | 2,334 | | 2,334 | | | | 2,334 | U |
| 42 | Spider Apla Remote Control Unit | A | | 1,985 | | 1,985 | | | | 1,985 | U |
| 43 | Spider Family of Networked Munitions Incr | A | | 10,796 | | 10,796 | | | | 10,796 | U |
| 44 | Soldier Enhancement Program Comm/Electronics | | | | | | | | | | U |
| 45 | Tactical Communications and Protective System | A | | 3,607 | | 3,607 | | | | 3,607 | U |
| 46 | Unified Command Suite | A | | 14,295 | | 14,295 | | | | 14,295 | U |
| 47 | Family of Med Comm for Combat Casualty Care | A | | 19,893 | | 19,893 | | | | 19,893 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 32 | Spectrum Microwave | | | | | | | | U |
| | Comm - Combat Support Comm | | | | | | | | |
| 33 | Mod-In-Service Profiler | A | | 70 | | | | 70 | U |
| | Comm - C3 System | | | | | | | | |
| 34 | Army Global Cmd & Control Sys (AGCCS) | A | | 2,658 | | | | 2,658 | U |
| | Comm - Combat Communications | | | | | | | | |
| 35 | Joint Tactical Radio System | A | | | | | | | U |
| 36 | Handheld Manpack Small Form Fit (HMS) | A | | 355,351 | | | | 355,351 | U |
| 37 | Mid-Tier Networking Vehicular Radio (MNVR) | A | | 25,100 | | | | 25,100 | U |
| 38 | Radio Terminal Set, Mids Lvt(2) | A | | 11,160 | | | | 11,160 | U |
| 39 | AMC Critical Items - OPA2 | A | | | | | | | U |
| 40 | Tractor Desk | | | 2,041 | | | | 2,041 | U |
| 41 | Tractor Ride | | | 5,534 | | 1,000 | | 6,534 | U |
| 42 | Spider Apla Remote Control Unit | A | | 996 | | | | 996 | U |
| 43 | Spider Family of Networked Munitions Incr | A | | 4,500 | | | | 4,500 | U |
| 44 | Soldier Enhancement Program Comm/Electronics | | | | | | | | U |
| 45 | Tactical Communications and Protective System | A | | 4,411 | | | | 4,411 | U |
| 46 | Unified Command Suite | A | | 15,275 | | | | 15,275 | U |
| 47 | Family of Med Comm for Combat Casualty Care | A | | 15,964 | | | | 15,964 | U |

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|---|---|---|---|---|---|---|---|---|---|
| | Comm - Intelligence Comm | | | | | | | | |
| 49 | CI Automation Architecture | A | | 1,349 | | 1,388 | | 1,388 | U |
| 50 | Defense Military Deception Initiative | A | | | | | | | U |
| 51 | Army CA/MISO GPF Equipment | A | | 993 | | 5,494 | | 5,494 | U |
| | Information Security | | | | | | | | |
| 52 | Family of Biometrics | A | | | | 2,978 | | 2,978 | U |
| 53 | Information System Security Program-ISSP | A | | 19,920 | | | | | U |
| 54 | Communications Security (COMSEC) | A | | 72,257 | | 131,356 | | 131,356 | U |
| 55 | Defensive CYBER Operations | A | | | | 15,132 | | 27,132 | U |
| 56 | Insider Threat Program - Unit Activity Monito | A | | | | | | | U |
| 57 | Persistent Cyber Training Environment | A | | | | | | | U |
| | Comm - Long Haul Communications | | | | | | | | |
| 58 | Base Support Communications | | | 16,082 | | 27,452 | | 27,452 | U |
| | Comm - Base Communications | | | | | | | | |
| 59 | Information Systems | | | 73,037 | | 122,055 | | 122,055 | U |
| 60 | Emergency Management Modernization Program | A | | 8,550 | 1 | 4,286 | | 4,286 | U |
| 61 | Home Station Mission Command Centers (HSMCC) | A | | | | | | | U |
| 62 | Installation Info Infrastructure Mod Program | A | | 111,807 | | 131,794 | | 326,994 | U |
| | Elect Equip - Tact Int Rel Act (TIARA) | | | | | | | | |
| 65 | JTT/CIBS-M | B | | 881 | | 5,337 | | 5,337 | U |

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Department of the Army
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| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Comm - Intelligence Comm | | | | | | | | | | |
| 49 | CI Automation Architecture | A | | 1,550 | | 10,050 | | | | 10,050 | U |
| 50 | Defense Military Deception Initiative | A | | | | | | | | | U |
| 51 | Army CA/MISO GPF Equipment | A | | | | | | | | | U |
| | Information Security | | | | | | | | | | |
| 52 | Family of Biometrics | A | | | | | | | | | U |
| 53 | Information System Security Program-ISSP | A | | | | | | | | | U |
| 54 | Communications Security (COMSEC) | A | | 1,928 | | 1,928 | | | | 1,928 | U |
| 55 | Defensive CYBER Operations | A | | | | 26,500 | | | | 26,500 | U |
| 56 | Insider Threat Program - Unit Activity Monito | A | | | | | | | | | U |
| 57 | Persistent Cyber Training Environment | A | | | | | | | | | U |
| | Comm - Long Haul Communications | | | | | | | | | | |
| 58 | Base Support Communications | | | | | | | | | | U |
| | Comm - Base Communications | | | | | | | | | | |
| 59 | Information Systems | | | | | | | | | | U |
| 60 | Emergency Management Modernization Program | A | | | | | | | | | U |
| 61 | Home Station Mission Command Centers (HSMCC) | A | | | | | | | | | U |
| 62 | Installation Info Infrastructure Mod Program | A | | 20,510 | | 20,510 | | | | 20,510 | U |
| | Elect Equip - Tact Int Rel Act (TIARA) | | | | | | | | | | |
| 65 | JTT/CIBS-M | B | | | | | | | | | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | Comm - Intelligence Comm | | | | | | | | | | |
| 49 | CI Automation Architecture | A | | 2,938 | | 11,438 | | | | 11,438 | U |
| 50 | Defense Military Deception Initiative | A | | | | | | | | | U |
| 51 | Army CA/MISO GPF Equipment | A | | 5,494 | | 5,494 | | | | 5,494 | U |
| | Information Security | | | | | | | | | | |
| 52 | Family of Biometrics | A | | 2,978 | | 2,978 | | | | 2,978 | U |
| 53 | Information System Security Program-ISSP | A | | | | | | | | | U |
| 54 | Communications Security (COMSEC) | A | | 133,284 | | 133,284 | | | | 133,284 | U |
| 55 | Defensive CYBER Operations | A | | 15,132 | | 53,632 | | | | 53,632 | U |
| 56 | Insider Threat Program - Unit Activity Monito | A | | | | | | | | | U |
| 57 | Persistent Cyber Training Environment | A | | | | | | | | | U |
| | Comm - Long Haul Communications | | | | | | | | | | |
| 58 | Base Support Communications | | | 27,452 | | 27,452 | | | | 27,452 | U |
| | Comm - Base Communications | | | | | | | | | | |
| 59 | Information Systems | | | 122,055 | | 122,055 | | | | 122,055 | U |
| 60 | Emergency Management Modernization Program | A | 1 | 4,286 | | 4,286 | | | | 4,286 | U |
| 61 | Home Station Mission Command Centers (HSMCC) | A | | | | | | | | | U |
| 62 | Installation Info Infrastructure Mod Program | A | | 152,304 | | 347,504 | | | | 347,504 | U |
| | Elect Equip - Tact Int Rel Act (TIARA) | | | | | | | | | | |
| 65 | JTT/CIBS-M | B | | 5,337 | | 5,337 | | | | 5,337 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| | Comm - Intelligence Comm | | | | | | | | |
| 49 | CI Automation Architecture | A | | 9,560 | | | | 9,560 | U |
| 50 | Defense Military Deception Initiative | A | | 4,030 | | | | 4,030 | U |
| 51 | Army CA/MISO GPF Equipment | A | | | | | | | U |
| | Information Security | | | | | | | | |
| 52 | Family of Biometrics | A | | | | | | | U |
| 53 | Information System Security Program-ISSP | A | | | | | | | U |
| 54 | Communications Security (COMSEC) | A | | 107,804 | | | | 107,804 | U |
| 55 | Defensive CYBER Operations | A | | 53,436 | | | | 53,436 | U |
| 56 | Insider Threat Program - Unit Activity Monito | A | | 690 | | | | 690 | U |
| 57 | Persistent Cyber Training Environment | A | | 4,000 | | | | 4,000 | U |
| | Comm - Long Haul Communications | | | | | | | | |
| 58 | Base Support Communications | | | 43,751 | | | | 43,751 | U |
| | Comm - Base Communications | | | | | | | | |
| 59 | Information Systems | | | 118,101 | | | | 118,101 | U |
| 60 | Emergency Management Modernization Program | A | | 4,490 | | | | 4,490 | U |
| 61 | Home Station Mission Command Centers (HSMCC) | A | | 20,050 | | | | 20,050 | U |
| 62 | Installation Info Infrastructure Mod Program | A | | 186,251 | | 2,500 | | 188,751 | U |
| | Elect Equip - Tact Int Rel Act (TIARA) | | | | | | | | |
| 65 | JTT/CIBS-M | B | | 12,154 | | | | 12,154 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 66 | Prophet Ground | | | 53,650 | | | | | U |
| 67 | Drug Interdiction Program (Dip) (TIARA) | | | 34,174 | | | | | U |
| 68 | DCGS-A (MIP) | | | 318,844 | | 242,514 | | 242,514 | U |
| 69 | Joint Tactical Ground Station (JTAGS) | A | | 9,325 | | 4,417 | | 4,417 | U |
| 70 | Trojan (MIP) | B | | 23,046 | | 17,455 | | 18,575 | U |
| 71 | Mod of In-Svc Equip (Intel Spt) (MIP) | | | 3,978 | | 44,965 | | 44,965 | U |
| 72 | CI HUMINT Auto Reprting and Coll(CHARCS) | | | 11,402 | | 7,658 | | 7,658 | U |
| 73 | Close Access Target Reconnaissance (CATR) | | | 5,012 | | 7,970 | | 7,970 | U |
| 74 | Machine Foreign Language Translation System-M | A | | 8,125 | | 545 | | 545 | U |
| 75 | Biometric Tactical Collection Devices (MIP) | A | | | | | | | U |
| | Elect Equip - Electronic Warfare (EW) | | | | | | | | |
| 76 | Lightweight Counter Mortar Radar | A | | 63,472 | | 74,038 | | 74,038 | U |
| 77 | EW Planning & Management Tools (EWPMT) | A | | 6,652 | | 3,235 | | 3,235 | U |
| 78 | Air Vigilance (AV) | A | | 8,224 | | 733 | | 733 | U |
| 79 | Crew | | | 2,960 | | | | | U |
| 80 | Family Of Persistent Surveillance Capabilitie | A | | 16,569 | | 1,740 | | 1,740 | U |
| 81 | Counterintelligence/Security Countermeasures | | | 20,632 | | 455 | | 455 | U |
| 82 | CI Modernization | A | | 228 | | 176 | | 176 | U |
| | Elect Equip - Tactical Surv. (Tac Surv) | | | | | | | | |
| 83 | Sentinel Mods | | | 43,285 | | 40,171 | | 40,171 | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 66 | Prophet Ground | | | | | | | | | | U |
| 67 | Drug Interdiction Program (Dip) (TIARA) | | | | | | | | | | U |
| 68 | DCGS-A (MIP) | | | 33,032 | | 43,032 | | | | 43,032 | U |
| 69 | Joint Tactical Ground Station (JTAGS) | A | | | | | | | | | U |
| 70 | Trojan (MIP) | B | | 3,305 | | 7,105 | | | | 7,105 | U |
| 71 | Mod of In-Svc Equip (Intel Spt) (MIP) | | | | | 540 | | | | 540 | U |
| 72 | CI HUMINT Auto Reprting and Coll(CHARCS) | | | 7,233 | | 7,233 | | | | 7,233 | U |
| 73 | Close Access Target Reconnaissance (CATR) | | | | | | | | | | U |
| 74 | Machine Foreign Language Translation System-M | A | | | | | | | | | U |
| 75 | Biometric Tactical Collection Devices (MIP) | A | | 5,670 | | 14,420 | | | | 14,420 | U |
| | Elect Equip - Electronic Warfare (EW) | | | | | | | | | | |
| 76 | Lightweight Counter Mortar Radar | A | | 25,892 | | 56,692 | | | | 56,692 | U |
| 77 | EW Planning & Management Tools (EWPMT) | A | | | | | | | | | U |
| 78 | Air Vigilance (AV) | A | | | | | | | | | U |
| 79 | Crew | | | | | | | | | | U |
| 80 | Family Of Persistent Surveillance Capabilitie | A | | 11,610 | | 32,801 | | | | 32,801 | U |
| 81 | Counterintelligence/Security Countermeasures | | | 23,890 | | 23,890 | | | | 23,890 | U |
| 82 | CI Modernization | A | | | | | | | | | U |
| | Elect Equip - Tactical Surv. (Tac Surv) | | | | | | | | | | |
| 83 | Sentinel Mods | | | | | | | | | | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 66 | Prophet Ground | | | | | | | | | | U |
| 67 | Drug Interdiction Program (Dip) (TIARA) | | | | | | | | | | U |
| 68 | DCGS-A (MIP) | | | 275,546 | | 285,546 | | | | 285,546 | U |
| 69 | Joint Tactical Ground Station (JTAGS) | A | | 4,417 | | 4,417 | | | | 4,417 | U |
| 70 | Trojan (MIP) | B | | 20,760 | | 25,680 | | | | 25,680 | U |
| 71 | Mod of In-Svc Equip (Intel Spt) (MIP) | | | 44,965 | | 45,505 | | | | 45,505 | U |
| 72 | CI HUMINT Auto Reprting and Coll(CHARCS) | | | 14,891 | | 14,891 | | | | 14,891 | U |
| 73 | Close Access Target Reconnaissance (CATR) | | | 7,970 | | 7,970 | | | | 7,970 | U |
| 74 | Machine Foreign Language Translation System-M | A | | 545 | | 545 | | | | 545 | U |
| 75 | Biometric Tactical Collection Devices (MIP) | A | | 5,670 | | 14,420 | | | | 14,420 | U |
| | Elect Equip - Electronic Warfare (EW) | | | | | | | | | | |
| 76 | Lightweight Counter Mortar Radar | A | | 99,930 | | 130,730 | | | | 130,730 | U |
| 77 | EW Planning & Management Tools (EWPMT) | A | | 3,235 | | 3,235 | | | | 3,235 | U |
| 78 | Air Vigilance (AV) | A | | 733 | | 733 | | | | 733 | U |
| 79 | Crew | | | | | | | | | | U |
| 80 | Family Of Persistent Surveillance Capabilitie | A | | 13,350 | | 34,541 | | | | 34,541 | U |
| 81 | Counterintelligence/Security Countermeasures | | | 24,345 | | 24,345 | | | | 24,345 | U |
| 82 | CI Modernization | A | | 176 | | 176 | | | | 176 | U |
| | Elect Equip - Tactical Surv. (Tac Surv) | | | | | | | | | | |
| 83 | Sentinel Mods | | | 40,171 | | 40,171 | | | | 40,171 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 66 | Prophet Ground | | | | | | | | U |
| 67 | Drug Interdiction Program (Dip) (TIARA) | | | | | | | | U |
| 68 | DCGS-A (MIP) | | | 274,782 | | 39,515 | | 314,297 | U |
| 69 | Joint Tactical Ground Station (JTAGS) | A | | | | | | | U |
| 70 | Trojan (MIP) | B | | 16,052 | | 21,310 | | 37,362 | U |
| 71 | Mod of In-Svc Equip (Intel Spt) (MIP) | | | 51,034 | | 2,300 | | 53,334 | U |
| 72 | CI HUMINT Auto Reprting and Coll(CHARCS) | | | 7,815 | | 14,460 | | 22,275 | U |
| 73 | Close Access Target Reconnaissance (CATR) | | | 8,050 | | | | 8,050 | U |
| 74 | Machine Foreign Language Translation System-M | A | | 567 | | | | 567 | U |
| 75 | Biometric Tactical Collection Devices (MIP) | A | | | | 5,180 | | 5,180 | U |
| | Elect Equip - Electronic Warfare (EW) | | | | | | | | |
| 76 | Lightweight Counter Mortar Radar | A | | 20,459 | | | | 20,459 | U |
| 77 | EW Planning & Management Tools (EWPMT) | A | | 5,805 | | | | 5,805 | U |
| 78 | Air Vigilance (AV) | A | | 5,348 | | | | 5,348 | U |
| 79 | Crew | | | | | | | | U |
| 80 | Family Of Persistent Surveillance Capabilitie | A | | | | 16,935 | | 16,935 | U |
| 81 | Counterintelligence/Security Countermeasures | | | 469 | | 18,874 | | 19,343 | U |
| 82 | CI Modernization | A | | 285 | | | | 285 | U |
| | Elect Equip - Tactical Surv. (Tac Surv) | | | | | | | | |
| 83 | Sentinel Mods | | | 28,491 | | | | 28,491 | U |

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|---|---|---|---|---|---|---|---|---|---|
| 84 | Night Vision Devices | A | | 123,974 | | 163,029 | | 189,170 | U |
| 85 | Small Tactical Optical Rifle Mounted MLRF | | | 19,677 | | 15,885 | | 18,843 | U |
| 86 | Base Expeditiary Targeting and Surv Sys | A | | 4,839 | | | | | U |
| 87 | Indirect Fire Protection Family of Systems | A | | 60,679 | | 48,427 | | 88,097 | U |
| 88 | Family of Weapon Sights (FWS) | A | | 30,194 | | 55,536 | | 55,536 | U |
| 89 | Artillery Accuracy Equip | | | 3,338 | | 4,187 | | 4,187 | U |
| 90 | Profiler | | | 4,057 | | | | | U |
| 91 | Joint Battle Command - Platform (JBC-P) | A | | 137,457 | | 137,501 | | 227,573 | U |
| 92 | Joint Effects Targeting System (JETS) | | | 47,212 | | 50,726 | | 50,726 | U |
| 93 | Mod of In-Svc Equip (LLDR) | A | | 22,314 | | 28,058 | | 28,058 | U |
| 94 | Computer Ballistics: LHMBC XM32 | A | | 14,732 | | 5,924 | | 5,924 | U |
| 95 | Mortar Fire Control System | | | 10,075 | | 22,331 | | 22,331 | U |
| 96 | Counterfire Radars | | | 198,379 | | 314,509 | | 314,509 | U |
| | Elect Equip - Tactical C2 Systems | | | | | | | | |
| 97 | Fire Support C2 Family | A | | 1,238 | | 8,660 | | 8,660 | U |
| 98 | AIR & MSL Defense Planning & Control Sys | | | 28,176 | | 54,376 | | 56,581 | U |
| 99 | IAMD Battle Command System | A | | 20,917 | | 204,969 | | 204,969 | U |
| 100 | Life Cycle Software Support (LCSS) | | | 5,850 | | 4,718 | | 4,718 | U |
| 101 | Network Management Initialization and Service | A | | 13,880 | | 11,063 | | 11,063 | U |
| 102 | Maneuver Control System (MCS) | A | | 125,443 | | 151,318 | | 151,318 | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 84 | Night Vision Devices | A | | | | | | | | | U |
| 85 | Small Tactical Optical Rifle Mounted MLRF | | | | | | | | | | U |
| 86 | Base Expeditiary Targeting and Surv Sys | A | | | | 82,590 | | | | 82,590 | U |
| 87 | Indirect Fire Protection Family of Systems | A | | 4,270 | | 178,910 | | -72,000 | | 106,910 | U |
| 88 | Family of Weapon Sights (FWS) | A | | | | | | | | | U |
| 89 | Artillery Accuracy Equip | | | | | | | | | | U |
| 90 | Profiler | | | | | | | | | | U |
| 91 | Joint Battle Command - Platform (JBC-P) | A | | | | | | | | | U |
| 92 | Joint Effects Targeting System (JETS) | | | | | | | | | | U |
| 93 | Mod of In-Svc Equip (LLDR) | A | | | | | | | | | U |
| 94 | Computer Ballistics: LHMBC XM32 | A | | | | | | | | | U |
| 95 | Mortar Fire Control System | | | 2,572 | | 2,572 | | | | 2,572 | U |
| 96 | Counterfire Radars | | | | | | | | | | U |
| | Elect Equip - Tactical C2 Systems | | | | | | | | | | |
| 97 | Fire Support C2 Family | A | | | | | | | | | U |
| 98 | AIR & MSL Defense Planning & Control Sys | | 31 | 69,958 | 31 | 69,958 | | | 31 | 69,958 | U |
| 99 | IAMD Battle Command System | A | | | | | | | | | U |
| 100 | Life Cycle Software Support (LCSS) | | | | | | | | | | U |
| 101 | Network Management Initialization and Service | A | | | | | | | | | U |
| 102 | Maneuver Control System (MCS) | A | | | | | | | | | U |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 84 | Night Vision Devices | A | | 163,029 | | 189,170 | | | | 189,170 | U |
| 85 | Small Tactical Optical Rifle Mounted MLRF | | | 15,885 | | 18,843 | | | | 18,843 | U |
| 86 | Base Expeditiary Targeting and Surv Sys | A | | | | 82,590 | | | | 82,590 | U |
| 87 | Indirect Fire Protection Family of Systems | A | | 124,697 | | 267,007 | | -72,000 | | 195,007 | U |
| 88 | Family of Weapon Sights (FWS) | A | | 55,536 | | 55,536 | | | | 55,536 | U |
| 89 | Artillery Accuracy Equip | | | 4,187 | | 4,187 | | | | 4,187 | U |
| 90 | Profiler | | | | | | | | | | U |
| 91 | Joint Battle Command - Platform (JBC-P) | A | | 137,501 | | 227,573 | | | | 227,573 | U |
| 92 | Joint Effects Targeting System (JETS) | | | 50,726 | | 50,726 | | | | 50,726 | U |
| 93 | Mod of In-Svc Equip (LLDR) | A | | 28,058 | | 28,058 | | | | 28,058 | U |
| 94 | Computer Ballistics: LHMBC XM32 | A | | 5,924 | | 5,924 | | | | 5,924 | U |
| 95 | Mortar Fire Control System | | | 24,903 | | 24,903 | | | | 24,903 | U |
| 96 | Counterfire Radars | | | 314,509 | | 314,509 | | | | 314,509 | U |
| | Elect Equip - Tactical C2 Systems | | | | | | | | | | |
| 97 | Fire Support C2 Family | A | | 8,660 | | 8,660 | | | | 8,660 | U |
| 98 | AIR & MSL Defense Planning & Control Sys | | 31 | 124,334 | 31 | 126,539 | | | 31 | 126,539 | U |
| 99 | IAMD Battle Command System | A | | 204,969 | | 204,969 | | | | 204,969 | U |
| 100 | Life Cycle Software Support (LCSS) | | | 4,718 | | 4,718 | | | | 4,718 | U |
| 101 | Network Management Initialization and Service | A | | 11,063 | | 11,063 | | | | 11,063 | U |
| 102 | Maneuver Control System (MCS) | A | | 151,318 | | 151,318 | | | | 151,318 | U |

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Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 84 | Night Vision Devices | A | | 166,493 | | 377 | | 166,870 | U |
| 85 | Small Tactical Optical Rifle Mounted MLRF | | | 13,947 | | 60 | | 14,007 | U |
| 86 | Base Expeditiary Targeting and Surv Sys | A | | | | | | | U |
| 87 | Indirect Fire Protection Family of Systems | A | | 21,380 | | 57,500 | | 78,880 | U |
| 88 | Family of Weapon Sights (FWS) | A | | 59,105 | | | | 59,105 | U |
| 89 | Artillery Accuracy Equip | | | 2,129 | | | | 2,129 | U |
| 90 | Profiler | | | | | | | | U |
| 91 | Joint Battle Command - Platform (JBC-P) | A | | 282,549 | | | | 282,549 | U |
| 92 | Joint Effects Targeting System (JETS) | | | 48,664 | | | | 48,664 | U |
| 93 | Mod of In-Svc Equip (LLDR) | A | | 5,198 | | 3,974 | | 9,172 | U |
| 94 | Computer Ballistics: LHMBC XM32 | A | | 8,117 | | | | 8,117 | U |
| 95 | Mortar Fire Control System | | | 31,813 | | 2,947 | | 34,760 | U |
| 96 | Counterfire Radars | | | 329,057 | | | | 329,057 | U |
| | Elect Equip - Tactical C2 Systems | | | | | | | | |
| 97 | Fire Support C2 Family | A | | 8,700 | | | | 8,700 | U |
| 98 | AIR & MSL Defense Planning & Control Sys | | | 26,635 | | 9,100 | | 35,735 | U |
| 99 | IAMD Battle Command System | A | | | | | | | U |
| 100 | Life Cycle Software Support (LCSS) | | | 1,992 | | | | 1,992 | U |
| 101 | Network Management Initialization and Service | A | | 15,179 | | | | 15,179 | U |
| 102 | Maneuver Control System (MCS) | A | | 132,572 | | | | 132,572 | U |

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Department of the Army
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Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 103 | Global Combat Support System-Army (GCSS-A) | A | | 146,654 | | 155,660 | | 155,660 | U |
| 104 | Integrated Personnel and Pay System-Army (IPP | A | | 4,446 | | 4,214 | | 4,214 | U |
| 105 | Reconnaissance and Surveying Instrument Set | A | | 16,218 | | 16,185 | | 16,185 | U |
| 106 | Mod of In-Svc Equipment (ENFIRE) | A | | 1,138 | | 1,565 | | 1,565 | U |
| | Elect Equip - Automation | | | | | | | | |
| 107 | Army Training Modernization | | | 12,089 | | 17,693 | | 17,693 | U |
| 108 | Automated Data Processing Equip | | | 110,835 | | 107,960 | | 135,590 | U |
| 109 | General Fund Enterprise Business Systems Fam | A | | 13,540 | | 6,416 | | 6,416 | U |
| 110 | High Perf Computing Mod Pgm (HPCMP) | A | | 62,319 | | 58,614 | | 58,614 | U |
| 111 | Contract Writing System | A | | | | 986 | | 986 | U |
| 112 | Reserve Component Automation Sys (RCAS) | | | 17,894 | | 23,828 | | 23,828 | U |
| | Elect Equip - Audio Visual Sys (A/V) | | | | | | | | |
| 113 | Tactical Digital Media | A | | | | 1,191 | | 1,191 | U |
| 114 | Items Less Than $5M (Surveying Equipment) | | | 5,090 | | 1,995 | | 1,995 | U |
| | Elect Equip - Support | | | | | | | | |
| 115 | Production Base Support (C-E) | | | 425 | | 403 | | 403 | U |
| 116 | BCT Emerging Technologies | A | | 7,438 | | | | | U |
| 999 | Classified Programs | | | 6,467 | | 4,436 | | 4,436 | U |
| | Total Communications and Electronics Equipment | | | 3,441,818 | | 3,632,369 | | 4,029,365 | |

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Department of the Army
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(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 103 | Global Combat Support System-Army (GCSS-A) | A | | | | | | | | | U |
| 104 | Integrated Personnel and Pay System-Army (IPP | A | | | | | | | | | U |
| 105 | Reconnaissance and Surveying Instrument Set | A | | | | | | | | | U |
| 106 | Mod of In-Svc Equipment (ENFIRE) | A | | | | | | | | | U |
| | Elect Equip - Automation | | | | | | | | | | |
| 107 | Army Training Modernization | | | | | | | | | | U |
| 108 | Automated Data Processing Equip | | | 9,900 | | 9,900 | | | | 9,900 | U |
| 109 | General Fund Enterprise Business Systems Fam | A | | | | | | | | | U |
| 110 | High Perf Computing Mod Pgm (HPCMP) | A | | | | | | | | | U |
| 111 | Contract Writing System | A | | | | | | | | | U |
| 112 | Reserve Component Automation Sys (RCAS) | | | | | | | | | | U |
| | Elect Equip - Audio Visual Sys (A/V) | | | | | | | | | | |
| 113 | Tactical Digital Media | A | | | | | | | | | U |
| 114 | Items Less Than $5M (Surveying Equipment) | | | 96 | | 96 | | | | 96 | U |
| | Elect Equip - Support | | | | | | | | | | |
| 115 | Production Base Support (C-E) | | | | | | | | | | U |
| 116 | BCT Emerging Technologies | A | | | | | | | | | U |
| 999 | Classified Programs | | | | | | | | | | U |
| | Total Communications and Electronics Equipment | | | 254,988 | | 622,299 | | -72,000 | | 550,299 | |

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Department of the Army
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Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 103 | Global Combat Support System-Army (GCSS-A) | A | | 155,660 | | 155,660 | | | | 155,660 | U |
| 104 | Integrated Personnel and Pay System-Army (IPP | A | | 4,214 | | 4,214 | | | | 4,214 | U |
| 105 | Reconnaissance and Surveying Instrument Set | A | | 16,185 | | 16,185 | | | | 16,185 | U |
| 106 | Mod of In-Svc Equipment (ENFIRE) | A | | 1,565 | | 1,565 | | | | 1,565 | U |
| | Elect Equip - Automation | | | | | | | | | | |
| 107 | Army Training Modernization | | | 17,693 | | 17,693 | | | | 17,693 | U |
| 108 | Automated Data Processing Equip | | | 117,860 | | 145,490 | | | | 145,490 | U |
| 109 | General Fund Enterprise Business Systems Fam | A | | 6,416 | | 6,416 | | | | 6,416 | U |
| 110 | High Perf Computing Mod Pgm (HPCMP) | A | | 58,614 | | 58,614 | | | | 58,614 | U |
| 111 | Contract Writing System | A | | 986 | | 986 | | | | 986 | U |
| 112 | Reserve Component Automation Sys (RCAS) | | | 23,828 | | 23,828 | | | | 23,828 | U |
| | Elect Equip - Audio Visual Sys (A/V) | | | | | | | | | | |
| 113 | Tactical Digital Media | A | | 1,191 | | 1,191 | | | | 1,191 | U |
| 114 | Items Less Than $5M (Surveying Equipment) | | | 2,091 | | 2,091 | | | | 2,091 | U |
| | Elect Equip - Support | | | | | | | | | | |
| 115 | Production Base Support (C-E) | | | 403 | | 403 | | | | 403 | U |
| 116 | BCT Emerging Technologies | A | | | | | | | | | U |
| 999 | Classified Programs | | | 4,436 | | 4,436 | | | | 4,436 | U |
| | Total Communications and Electronics Equipment | | | 3,959,357 | | 4,651,664 | | -72,000 | | 4,579,664 | |

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Total Obligational Authority
(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 103 | Global Combat Support System-Army (GCSS-A) | A | | 37,201 | | | | 37,201 | U |
| 104 | Integrated Personnel and Pay System-Army (IPP | A | | 16,140 | | | | 16,140 | U |
| 105 | Reconnaissance and Surveying Instrument Set | A | | 6,093 | | | | 6,093 | U |
| 106 | Mod of In-Svc Equipment (ENFIRE) | A | | 1,134 | | | | 1,134 | U |
| | Elect Equip - Automation | | | | | | | | |
| 107 | Army Training Modernization | | | 11,575 | | | | 11,575 | U |
| 108 | Automated Data Processing Equip | | | 91,983 | | | | 91,983 | U |
| 109 | General Fund Enterprise Business Systems Fam | A | | 4,465 | | | | 4,465 | U |
| 110 | High Perf Computing Mod Pgm (HPCMP) | A | | 66,363 | | | | 66,363 | U |
| 111 | Contract Writing System | A | | 1,001 | | | | 1,001 | U |
| 112 | Reserve Component Automation Sys (RCAS) | | | 26,183 | | | | 26,183 | U |
| | Elect Equip - Audio Visual Sys (A/V) | | | | | | | | |
| 113 | Tactical Digital Media | A | | 4,441 | | | | 4,441 | U |
| 114 | Items Less Than $5M (Surveying Equipment) | | | 3,414 | | | | 3,414 | U |
| | Elect Equip - Support | | | | | | | | |
| 115 | Production Base Support (C-E) | | | 499 | | | | 499 | U |
| 116 | BCT Emerging Technologies | A | | 25,050 | | | | 25,050 | U |
| 999 | Classified Programs | | | 4,819 | | | | 4,819 | U |
| | Total Communications and Electronics Equipment | | | 3,826,384 | | 200,932 | | 4,027,316 | |

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Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| Budget Activity 03: Other Support Equipment | | | | | | | | | |
| | Chemical Defensive Equipment | | | | | | | | |
| 117 | Protective Systems | A | | 248 | | 2,966 | | 13,466 | U |
| 118 | Family of Non-Lethal Equipment (FNLE) | A | | 1,487 | | 9,795 | | 9,795 | U |
| 119 | Base Defense Systems (BDS) | A | | 4,035 | | | | | U |
| 120 | CBRN Defense | A | | 26,302 | | 17,922 | | 42,922 | U |
| | Bridging Equipment | | | | | | | | |
| 121 | Tactical Bridging | | | 9,822 | | 13,553 | | 13,553 | U |
| 122 | Tactical Bridge, Float-Ribbon | | | 21,516 | | 25,244 | | 25,244 | U |
| 123 | Bridge Supplemental Set | A | | 3,967 | | 983 | | 983 | U |
| 124 | Common Bridge Transporter (CBT) Recap | A | | 53,538 | | 25,176 | | 25,176 | U |
| | Engineer (Non-Construction) Equipment | | | | | | | | |
| 125 | Handheld Standoff Minefield Detection Sys-Hst | B | | | | | | | U |
| 126 | Grnd Standoff Mine Detectn Sysm (GSTAMIDS) | | | 58,682 | | 39,350 | | 39,350 | U |
| 127 | Area Mine Detection System (AMDS) | A | | | | 10,500 | | 10,500 | U |
| 128 | Husky Mounted Detection System (HMDS) | A | | 13,565 | | 274 | | 274 | U |
| 129 | Robotic Combat Support System (RCSS) | | | 2,136 | | 2,951 | | 2,951 | U |
| 130 | EOD Robotics Systems Recapitalization | A | | 6,960 | | 1,949 | | 1,949 | U |
| 131 | Robotics and Applique Systems | | | | | 5,203 | | 5,203 | U |

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Department of the Army
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(Dollars in Thousands)

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | Budget Activity 03: Other Support Equipment | | | | | | | | | | |
| | Chemical Defensive Equipment | | | | | | | | | | |
| 117 | Protective Systems | A | | | | | | | | | U |
| 118 | Family of Non-Lethal Equipment (FNLE) | A | | | | | | | | | U |
| 119 | Base Defense Systems (BDS) | A | | | | 26,572 | | | | 26,572 | U |
| 120 | CBRN Defense | A | | 1,841 | | 4,821 | | | | 4,821 | U |
| | Bridging Equipment | | | | | | | | | | |
| 121 | Tactical Bridging | | | 26,000 | | 26,000 | | | | 26,000 | U |
| 122 | Tactical Bridge, Float-Ribbon | | | | | | | | | | U |
| 123 | Bridge Supplemental Set | A | | | | | | | | | U |
| 124 | Common Bridge Transporter (CBT) Recap | A | | | | | | | | | U |
| | Engineer (Non-Construction) Equipment | | | | | | | | | | |
| 125 | Handheld Standoff Minefield Detection Sys-Hst | B | | | | | | | | | U |
| 126 | Grnd Standoff Mine Detectn Sysm (GSTAMIDS) | | | | | | | | | | U |
| 127 | Area Mine Detection System (AMDS) | A | | | | | | | | | U |
| 128 | Husky Mounted Detection System (HMDS) | A | | | | | | | | | U |
| 129 | Robotic Combat Support System (RCSS) | | | | | | | | | | U |
| 130 | EOD Robotics Systems Recapitalization | A | | | | | | | | | U |
| 131 | Robotics and Applique Systems | | | 268 | | 268 | | | | 268 | U |

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(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | FY 2017 Total PB Requests* with CR Adj Base + OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | FY 2017 Remaining Req with CR Adj Base + OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Budget Activity 03: Other Support Equipment | | | | | | | | | | | |
| | Chemical Defensive Equipment | | | | | | | | | | |
| 117 | Protective Systems | A | | 2,966 | | 13,466 | | | | 13,466 | U |
| 118 | Family of Non-Lethal Equipment (FNLE) | A | | 9,795 | | 9,795 | | | | 9,795 | U |
| 119 | Base Defense Systems (BDS) | A | | | | 26,572 | | | | 26,572 | U |
| 120 | CBRN Defense | A | | 19,763 | | 47,743 | | | | 47,743 | U |
| | Bridging Equipment | | | | | | | | | | |
| 121 | Tactical Bridging | | | 39,553 | | 39,553 | | | | 39,553 | U |
| 122 | Tactical Bridge, Float-Ribbon | | | 25,244 | | 25,244 | | | | 25,244 | U |
| 123 | Bridge Supplemental Set | A | | 983 | | 983 | | | | 983 | U |
| 124 | Common Bridge Transporter (CBT) Recap | A | | 25,176 | | 25,176 | | | | 25,176 | U |
| | Engineer (Non-Construction) Equipment | | | | | | | | | | |
| 125 | Handheld Standoff Minefield Detection Sys-Hst | B | | | | | | | | | U |
| 126 | Grnd Standoff Mine Detectn Sysm (GSTAMIDS) | | | 39,350 | | 39,350 | | | | 39,350 | U |
| 127 | Area Mine Detection System (AMDS) | A | | 10,500 | | 10,500 | | | | 10,500 | U |
| 128 | Husky Mounted Detection System (HMDS) | A | | 274 | | 274 | | | | 274 | U |
| 129 | Robotic Combat Support System (RCSS) | | | 2,951 | | 2,951 | | | | 2,951 | U |
| 130 | EOD Robotics Systems Recapitalization | A | | 1,949 | | 1,949 | | | | 1,949 | U |
| 131 | Robotics and Applique Systems | | | 5,471 | | 5,471 | | | | 5,471 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| Budget Activity 03: Other Support Equipment | | | | | | | | | |
| | Chemical Defensive Equipment | | | | | | | | |
| 117 | Protective Systems | A | | 1,613 | | | | 1,613 | U |
| 118 | Family of Non-Lethal Equipment (FNLE) | A | | 9,696 | | | | 9,696 | U |
| 119 | Base Defense Systems (BDS) | A | | | | 3,726 | | 3,726 | U |
| 120 | CBRN Defense | A | | 11,110 | | | | 11,110 | U |
| | Bridging Equipment | | | | | | | | |
| 121 | Tactical Bridging | | | 16,610 | | | | 16,610 | U |
| 122 | Tactical Bridge, Float-Ribbon | | | 21,761 | | | | 21,761 | U |
| 123 | Bridge Supplemental Set | A | | | | | | | U |
| 124 | Common Bridge Transporter (CBT) Recap | A | | 21,046 | | | | 21,046 | U |
| | Engineer (Non-Construction) Equipment | | | | | | | | |
| 125 | Handheld Standoff Minefield Detection Sys-Hst | B | | 5,000 | | | | 5,000 | U |
| 126 | Grnd Standoff Mine Detectn Sysm (GSTAMIDS) | | | 32,442 | | | | 32,442 | U |
| 127 | Area Mine Detection System (AMDS) | A | | 10,571 | | | | 10,571 | U |
| 128 | Husky Mounted Detection System (HMDS) | A | | 21,695 | | | | 21,695 | U |
| 129 | Robotic Combat Support System (RCSS) | | | 4,516 | | | | 4,516 | U |
| 130 | EOD Robotics Systems Recapitalization | A | | 10,073 | | | | 10,073 | U |
| 131 | Robotics and Applique Systems | | | 3,000 | | | | 3,000 | U |

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(Dollars in Thousands)

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| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 132 | Explosive Ordnance Disposal Eqpmt (EOD EQPMT) | | | 17,143 | | 5,570 | | 5,570 | U |
| 133 | Remote Demolition Systems | A | | 8,284 | | 6,238 | | 6,238 | U |
| 134 | < $5m, Countermine Equipment | A | | 5,459 | | 836 | | 836 | U |
| 135 | Family of Boats and Motors | A | | 8,429 | | 3,171 | | 3,171 | U |
| | Combat Service Support Equipment | | | | | | | | |
| 136 | Heaters and ECU'S | A | | 1,360 | | 18,707 | | 18,707 | U |
| 137 | Soldier Enhancement | | | 2,287 | | 2,112 | | 2,112 | U |
| 138 | Personnel Recovery Support System (PRSS) | A | | 7,733 | | 10,856 | | 10,856 | U |
| 139 | Ground Soldier System | A | | 49,798 | | 32,419 | | 32,419 | U |
| 140 | Mobile Soldier Power | A | | 25,306 | | 30,014 | | 30,014 | U |
| 141 | Force Provider | A | | 21,300 | | | | | U |
| 142 | Field Feeding Equipment | | | 14,318 | | 12,544 | | 12,544 | U |
| 143 | Cargo Aerial Del & Personnel Parachute System | | | 34,153 | | 18,509 | | 18,509 | U |
| 144 | Family of Engr Combat and Construction Sets | A | | 34,544 | | 29,384 | | 29,384 | U |
| 145 | Items Less Than $5M (Eng Spt) | A | | 595 | | | | | U |
| | Petroleum Equipment | | | | | | | | |
| 146 | Quality Surveillance Equipment | A | | 5,368 | | 4,487 | | 4,487 | U |
| 147 | Distribution Systems, Petroleum & Water | | | 35,381 | | 42,656 | | 42,656 | U |
| | Medical Equipment | | | | | | | | |
| 148 | Combat Support Medical | | | 73,828 | | 59,761 | | 59,761 | U |

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Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 132 | Explosive Ordnance Disposal Eqpmt (EOD EQPMT) | | | | | | | | | | U |
| 133 | Remote Demolition Systems | A | | | | | | | | | U |
| 134 | < $5m, Countermine Equipment | A | | | | | | | | | U |
| 135 | Family of Boats and Motors | A | | 280 | | 280 | | | | 280 | U |
| | Combat Service Support Equipment | | | | | | | | | | |
| 136 | Heaters and ECU'S | A | | 894 | | 894 | | | | 894 | U |
| 137 | Soldier Enhancement | | | | | | | | | | U |
| 138 | Personnel Recovery Support System (PRSS) | A | | | | | | | | | U |
| 139 | Ground Soldier System | A | | | | | | | | | U |
| 140 | Mobile Soldier Power | A | | | | | | | | | U |
| 141 | Force Provider | A | | 53,800 | | 53,800 | | | | 53,800 | U |
| 142 | Field Feeding Equipment | | | 2,665 | | 2,665 | | | | 2,665 | U |
| 143 | Cargo Aerial Del & Personnel Parachute System | | | 2,400 | | 2,400 | | | | 2,400 | U |
| 144 | Family of Engr Combat and Construction Sets | A | | 9,789 | | 9,789 | | | | 9,789 | U |
| 145 | Items Less Than $5M (Eng Spt) | A | | 300 | | 300 | | | | 300 | U |
| | Petroleum Equipment | | | | | | | | | | |
| 146 | Quality Surveillance Equipment | A | | 4,800 | | 4,800 | | | | 4,800 | U |
| 147 | Distribution Systems, Petroleum & Water | | 174 | 78,240 | 174 | 78,240 | | | 174 | 78,240 | U |
| | Medical Equipment | | | | | | | | | | |
| 148 | Combat Support Medical | | | 5,763 | | 5,763 | | | | 5,763 | U |

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Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 132 | Explosive Ordnance Disposal Eqpmt (EOD EQPMT) | | | 5,570 | | 5,570 | | | | 5,570 | U |
| 133 | Remote Demolition Systems | A | | 6,238 | | 6,238 | | | | 6,238 | U |
| 134 | < $5m, Countermine Equipment | A | | 836 | | 836 | | | | 836 | U |
| 135 | Family of Boats and Motors | A | | 3,451 | | 3,451 | | | | 3,451 | U |
| | Combat Service Support Equipment | | | | | | | | | | |
| 136 | Heaters and ECU'S | A | | 19,601 | | 19,601 | | | | 19,601 | U |
| 137 | Soldier Enhancement | | | 2,112 | | 2,112 | | | | 2,112 | U |
| 138 | Personnel Recovery Support System (PRSS) | A | | 10,856 | | 10,856 | | | | 10,856 | U |
| 139 | Ground Soldier System | A | | 32,419 | | 32,419 | | | | 32,419 | U |
| 140 | Mobile Soldier Power | A | | 30,014 | | 30,014 | | | | 30,014 | U |
| 141 | Force Provider | A | | 53,800 | | 53,800 | | | | 53,800 | U |
| 142 | Field Feeding Equipment | | | 15,209 | | 15,209 | | | | 15,209 | U |
| 143 | Cargo Aerial Del & Personnel Parachute System | | | 20,909 | | 20,909 | | | | 20,909 | U |
| 144 | Family of Engr Combat and Construction Sets | A | | 39,173 | | 39,173 | | | | 39,173 | U |
| 145 | Items Less Than $5M (Eng Spt) | A | | 300 | | 300 | | | | 300 | U |
| | Petroleum Equipment | | | | | | | | | | |
| 146 | Quality Surveillance Equipment | A | | 9,287 | | 9,287 | | | | 9,287 | U |
| 147 | Distribution Systems, Petroleum & Water | | 174 | 120,896 | 174 | 120,896 | | | 174 | 120,896 | U |
| | Medical Equipment | | | | | | | | | | |
| 148 | Combat Support Medical | | | 65,524 | | 65,524 | | | | 65,524 | U |

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(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 132 | Explosive Ordnance Disposal Eqpmt (EOD EQPMT) | | | | | | | | U |
| 133 | Remote Demolition Systems | A | | 5,847 | | | | 5,847 | U |
| 134 | < $5m, Countermine Equipment | A | | 1,530 | | | | 1,530 | U |
| 135 | Family of Boats and Motors | A | | 4,302 | | | | 4,302 | U |
| | Combat Service Support Equipment | | | | | | | | |
| 136 | Heaters and ECU'S | A | | 7,405 | | 270 | | 7,675 | U |
| 137 | Soldier Enhancement | | | 1,095 | | | | 1,095 | U |
| 138 | Personnel Recovery Support System (PRSS) | A | | 5,390 | | | | 5,390 | U |
| 139 | Ground Soldier System | A | | 38,219 | | | | 38,219 | U |
| 140 | Mobile Soldier Power | A | | 10,456 | | | | 10,456 | U |
| 141 | Force Provider | A | | | | | | | U |
| 142 | Field Feeding Equipment | | | 15,340 | | 145 | | 15,485 | U |
| 143 | Cargo Aerial Del & Personnel Parachute System | | | 30,607 | | 1,980 | | 32,587 | U |
| 144 | Family of Engr Combat and Construction Sets | A | | 10,426 | | | | 10,426 | U |
| 145 | Items Less Than $5M (Eng Spt) | A | | | | | | | U |
| | Petroleum Equipment | | | | | | | | |
| 146 | Quality Surveillance Equipment | A | | 6,903 | | | | 6,903 | U |
| 147 | Distribution Systems, Petroleum & Water | | | 47,597 | | | | 47,597 | U |
| | Medical Equipment | | | | | | | | |
| 148 | Combat Support Medical | | | 43,343 | | 25,690 | | 69,033 | U |

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(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| | Maintenance Equipment | | | | | | | | |
| 149 | Mobile Maintenance Equipment Systems | A | | 25,270 | | 35,694 | | 35,694 | U |
| 150 | Items Less Than $5.0M (Maint Eq) | A | | 2,760 | | 2,716 | | 2,716 | U |
| | Construction Equipment | | | | | | | | |
| 151 | Grader, Road Mtzd, Hvy, 6x4 (CCE) | A | | 5,903 | | 1,742 | | 1,742 | U |
| 152 | Scrapers, Earthmoving | A | | 29,460 | | 26,233 | | 26,233 | U |
| 153 | Hydraulic Excavator | B | | | | 1,123 | | 1,123 | U |
| 154 | Tractor, Full Tracked | A | | 27,156 | | | | | U |
| 155 | All Terrain Cranes | A | | 13,415 | | 65,285 | | 65,285 | U |
| 156 | Plant, Asphalt Mixing | | | 984 | | | | | U |
| 157 | High Mobility Engineer Excavator (HMEE) | A | | 2,656 | | 1,743 | | 1,743 | U |
| 158 | Enhanced Rapid Airfield Construction Capap | B | | 2,531 | | 2,779 | | 2,779 | U |
| 159 | Family of Diver Support Equipment | A | | 446 | | | | | U |
| 160 | Const Equip Esp | | | 19,240 | | 26,712 | | 26,712 | U |
| 161 | Items Less Than $5.0M (Const Equip) | A | | 5,087 | | 6,649 | | 6,649 | U |
| | Rail Float Containerization Equipment | | | | | | | | |
| 162 | Army Watercraft Esp | A | | 39,772 | | 21,860 | | 21,860 | U |
| 163 | Items Less Than $5.0M (Float/Rail) | A | | 5,835 | | 1,967 | | 1,967 | U |
| | Generators | | | | | | | | |
| 164 | Generators and Associated Equip | A | | 97,154 | | 113,266 | | 113,266 | U |

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(Dollars in Thousands)

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| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Maintenance Equipment | | | | | | | | | | |
| 149 | Mobile Maintenance Equipment Systems | A | | 1,609 | | 1,609 | | | | 1,609 | U |
| 150 | Items Less Than $5.0M (Maint Eq) | A | | 145 | | 145 | | | | 145 | U |
| | Construction Equipment | | | | | | | | | | |
| 151 | Grader, Road Mtzd, Hvy, 6x4 (CCE) | A | | 3,047 | | 3,047 | | | | 3,047 | U |
| 152 | Scrapers, Earthmoving | A | | | | | | | | | U |
| 153 | Hydraulic Excavator | B | | | | | | | | | U |
| 154 | Tractor, Full Tracked | A | | 4,426 | | 4,426 | | | | 4,426 | U |
| 155 | All Terrain Cranes | A | | | | | | | | | U |
| 156 | Plant, Asphalt Mixing | | | | | | | | | | U |
| 157 | High Mobility Engineer Excavator (HMEE) | A | | 2,900 | | 2,900 | | | | 2,900 | U |
| 158 | Enhanced Rapid Airfield Construction Capap | B | | | | | | | | | U |
| 159 | Family of Diver Support Equipment | A | | | | | | | | | U |
| 160 | Const Equip Esp | | | | | | | | | | U |
| 161 | Items Less Than $5.0M (Const Equip) | A | | 96 | | 96 | | | | 96 | U |
| | Rail Float Containerization Equipment | | | | | | | | | | |
| 162 | Army Watercraft Esp | A | | | | | | | | | U |
| 163 | Items Less Than $5.0M (Float/Rail) | A | | | | | | | | | U |
| | Generators | | | | | | | | | | |
| 164 | Generators and Associated Equip | A | | 31,761 | | 31,761 | | | | 31,761 | U |

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Maintenance Equipment | | | | | | | | | | |
| 149 | Mobile Maintenance Equipment Systems | A | | 37,303 | | 37,303 | | | | 37,303 | U |
| 150 | Items Less Than $5.0M (Maint Eq) | A | | 2,861 | | 2,861 | | | | 2,861 | U |
| | Construction Equipment | | | | | | | | | | |
| 151 | Grader, Road Mtzd, Hvy, 6x4 (CCE) | A | | 4,789 | | 4,789 | | | | 4,789 | U |
| 152 | Scrapers, Earthmoving | A | | 26,233 | | 26,233 | | | | 26,233 | U |
| 153 | Hydraulic Excavator | B | | 1,123 | | 1,123 | | | | 1,123 | U |
| 154 | Tractor, Full Tracked | A | | 4,426 | | 4,426 | | | | 4,426 | U |
| 155 | All Terrain Cranes | A | | 65,285 | | 65,285 | | | | 65,285 | U |
| 156 | Plant, Asphalt Mixing | | | | | | | | | | U |
| 157 | High Mobility Engineer Excavator (HMEE) | A | | 4,643 | | 4,643 | | | | 4,643 | U |
| 158 | Enhanced Rapid Airfield Construction Capap | B | | 2,779 | | 2,779 | | | | 2,779 | U |
| 159 | Family of Diver Support Equipment | A | | | | | | | | | U |
| 160 | Const Equip Esp | | | 26,712 | | 26,712 | | | | 26,712 | U |
| 161 | Items Less Than $5.0M (Const Equip) | A | | 6,745 | | 6,745 | | | | 6,745 | U |
| | Rail Float Containerization Equipment | | | | | | | | | | |
| 162 | Army Watercraft Esp | A | | 21,860 | | 21,860 | | | | 21,860 | U |
| 163 | Items Less Than $5.0M (Float/Rail) | A | | 1,967 | | 1,967 | | | | 1,967 | U |
| | Generators | | | | | | | | | | |
| 164 | Generators and Associated Equip | A | | 145,027 | | 145,027 | | | | 145,027 | U |

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(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| | Maintenance Equipment | | | | | | | | |
| 149 | Mobile Maintenance Equipment Systems | A | | 33,774 | | 1,124 | | 34,898 | U |
| 150 | Items Less Than $5.0M (Maint Eq) | A | | 2,728 | | | | 2,728 | U |
| | Construction Equipment | | | | | | | | |
| 151 | Grader, Road Mtzd, Hvy, 6x4 (CCE) | A | | 989 | | | | 989 | U |
| 152 | Scrapers, Earthmoving | A | | 11,180 | | | | 11,180 | U |
| 153 | Hydraulic Excavator | B | | | | 3,850 | | 3,850 | U |
| 154 | Tractor, Full Tracked | A | | | | | | | U |
| 155 | All Terrain Cranes | A | | 8,935 | | | | 8,935 | U |
| 156 | Plant, Asphalt Mixing | | | | | | | | U |
| 157 | High Mobility Engineer Excavator (HMEE) | A | | 64,339 | | 1,932 | | 66,271 | U |
| 158 | Enhanced Rapid Airfield Construction Capap | B | | 2,563 | | | | 2,563 | U |
| 159 | Family of Diver Support Equipment | A | | | | | | | U |
| 160 | Const Equip Esp | | | 19,032 | | | | 19,032 | U |
| 161 | Items Less Than $5.0M (Const Equip) | A | | 6,899 | | | | 6,899 | U |
| | Rail Float Containerization Equipment | | | | | | | | |
| 162 | Army Watercraft Esp | A | | 20,110 | | | | 20,110 | U |
| 163 | Items Less Than $5.0M (Float/Rail) | A | | 2,877 | | | | 2,877 | U |
| | Generators | | | | | | | | |
| 164 | Generators and Associated Equip | A | | 115,635 | | 569 | | 116,204 | U |

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(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 165 | Tactical Electric Power Recapitalization | A | | 13,806 | | 7,867 | | 7,867 | U |
| | Material Handling Equipment | | | | | | | | |
| 166 | Family of Forklifts | A | | 27,982 | | 2,307 | | 2,307 | U |
| | Training Equipment | | | | | | | | |
| 167 | Combat Training Centers Support | | | 74,916 | | 75,359 | | 80,708 | U |
| 168 | Training Devices, Nonsystem | | | 278,141 | | 253,050 | | 253,050 | U |
| 169 | Close Combat Tactical Trainer | A | | 45,210 | | 48,271 | | 59,771 | U |
| 170 | Aviation Combined Arms Tactical Trainer | | | 30,068 | | 40,000 | | 40,000 | U |
| 171 | Gaming Technology In Support of Army Training | | | 9,793 | | 11,543 | | 11,543 | U |
| | Test Measure and Dig Equipment (TMD) | | | | | | | | |
| 172 | Calibration Sets Equipment | | | 4,650 | | 4,963 | | 4,963 | U |
| 173 | Integrated Family of Test Equipment (IFTE) | | | 36,187 | | 29,781 | | 29,781 | U |
| 174 | Test Equipment Modernization (TEMOD) | | | 9,383 | | 6,342 | | 6,342 | U |
| | Other Support Equipment | | | | | | | | |
| 175 | M25 Stabilized Binocular | A | | | | 3,149 | | 3,149 | U |
| 176 | Rapid Equipping Soldier Support Equipment | A | | 30,403 | | 18,003 | | 18,003 | U |
| 177 | Physical Security Systems (OPA3) | A | | 52,100 | | 44,082 | | 44,082 | U |
| 178 | Base Level Common Equipment | | | 1,870 | | 2,168 | | 2,168 | U |
| 179 | Modification of In-Svc Equipment (OPA-3) | | | 64,219 | | 67,367 | | 67,367 | U |
| 180 | Production Base Support (OTH) | | | 1,525 | | 1,528 | | 1,528 | U |

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 165 | Tactical Electric Power Recapitalization | A | | | | | | | | | U |
| | Material Handling Equipment | | | | | | | | | | |
| 166 | Family of Forklifts | A | | 846 | | 846 | | | | 846 | U |
| | Training Equipment | | | | | | | | | | |
| 167 | Combat Training Centers Support | | | | | | | | | | U |
| 168 | Training Devices, Nonsystem | | | | | | | | | | U |
| 169 | Close Combat Tactical Trainer | A | | | | | | | | | U |
| 170 | Aviation Combined Arms Tactical Trainer | | | | | | | | | | U |
| 171 | Gaming Technology In Support of Army Training | | | | | | | | | | U |
| | Test Measure and Dig Equipment (TMD) | | | | | | | | | | |
| 172 | Calibration Sets Equipment | | | | | | | | | | U |
| 173 | Integrated Family of Test Equipment (IFTE) | | | | | | | | | | U |
| 174 | Test Equipment Modernization (TEMOD) | | | 1,140 | | 1,140 | | | | 1,140 | U |
| | Other Support Equipment | | | | | | | | | | |
| 175 | M25 Stabilized Binocular | A | | | | | | | | | U |
| 176 | Rapid Equipping Soldier Support Equipment | A | | 8,500 | | 8,500 | | | | 8,500 | U |
| 177 | Physical Security Systems (OPA3) | A | | | | | | | | | U |
| 178 | Base Level Common Equipment | | | | | | | | | | U |
| 179 | Modification of In-Svc Equipment (OPA-3) | | | | | | | | | | U |
| 180 | Production Base Support (OTH) | | | | | | | | | | U |

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(Dollars in Thousands)

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Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 165 | Tactical Electric Power Recapitalization | A | | 7,867 | | 7,867 | | | | 7,867 | U |
| | Material Handling Equipment | | | | | | | | | | |
| 166 | Family of Forklifts | A | | 3,153 | | 3,153 | | | | 3,153 | U |
| | Training Equipment | | | | | | | | | | |
| 167 | Combat Training Centers Support | | | 75,359 | | 80,708 | | | | 80,708 | U |
| 168 | Training Devices, Nonsystem | | | 253,050 | | 253,050 | | | | 253,050 | U |
| 169 | Close Combat Tactical Trainer | A | | 48,271 | | 59,771 | | | | 59,771 | U |
| 170 | Aviation Combined Arms Tactical Trainer | | | 40,000 | | 40,000 | | | | 40,000 | U |
| 171 | Gaming Technology In Support of Army Training | | | 11,543 | | 11,543 | | | | 11,543 | U |
| | Test Measure and Dig Equipment (TMD) | | | | | | | | | | |
| 172 | Calibration Sets Equipment | | | 4,963 | | 4,963 | | | | 4,963 | U |
| 173 | Integrated Family of Test Equipment (IFTE) | | | 29,781 | | 29,781 | | | | 29,781 | U |
| 174 | Test Equipment Modernization (TEMOD) | | | 7,482 | | 7,482 | | | | 7,482 | U |
| | Other Support Equipment | | | | | | | | | | |
| 175 | M25 Stabilized Binocular | A | | 3,149 | | 3,149 | | | | 3,149 | U |
| 176 | Rapid Equipping Soldier Support Equipment | A | | 26,503 | | 26,503 | | | | 26,503 | U |
| 177 | Physical Security Systems (OPA3) | A | | 44,082 | | 44,082 | | | | 44,082 | U |
| 178 | Base Level Common Equipment | | | 2,168 | | 2,168 | | | | 2,168 | U |
| 179 | Modification of In-Svc Equipment (OPA-3) | | | 67,367 | | 67,367 | | | | 67,367 | U |
| 180 | Production Base Support (OTH) | | | 1,528 | | 1,528 | | | | 1,528 | U |

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| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 165 | Tactical Electric Power Recapitalization | A | | 7,436 | | | | 7,436 | U |
| | Material Handling Equipment | | | | | | | | |
| 166 | Family of Forklifts | A | | 9,000 | | | | 9,000 | U |
| | Training Equipment | | | | | | | | |
| 167 | Combat Training Centers Support | | | 88,888 | | | | 88,888 | U |
| 168 | Training Devices, Nonsystem | | | 285,989 | | 2,700 | | 288,689 | U |
| 169 | Close Combat Tactical Trainer | A | | 45,718 | | | | 45,718 | U |
| 170 | Aviation Combined Arms Tactical Trainer | | | 30,568 | | | | 30,568 | U |
| 171 | Gaming Technology In Support of Army Training | | | 5,406 | | | | 5,406 | U |
| | Test Measure and Dig Equipment (TMD) | | | | | | | | |
| 172 | Calibration Sets Equipment | | | 5,564 | | | | 5,564 | U |
| 173 | Integrated Family of Test Equipment (IFTE) | | | 30,144 | | 7,500 | | 37,644 | U |
| 174 | Test Equipment Modernization (TEMOD) | | | 7,771 | | | | 7,771 | U |
| | Other Support Equipment | | | | | | | | |
| 175 | M25 Stabilized Binocular | A | | 3,956 | | | | 3,956 | U |
| 176 | Rapid Equipping Soldier Support Equipment | A | | 5,000 | | 8,500 | | 13,500 | U |
| 177 | Physical Security Systems (OPA3) | A | | 60,047 | | | | 60,047 | U |
| 178 | Base Level Common Equipment | | | 13,239 | | | | 13,239 | U |
| 179 | Modification of In-Svc Equipment (OPA-3) | | | 60,192 | | | | 60,192 | U |
| 180 | Production Base Support (OTH) | | | 2,271 | | | | 2,271 | U |

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01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2016 Base + OCO Quantity | FY 2016 Base + OCO Cost | FY 2017 PB Request with CR Adj Base Quantity | FY 2017 PB Request with CR Adj Base Cost | FY 2017 Total PB Requests* with CR Adj Base Quantity | FY 2017 Total PB Requests* with CR Adj Base Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 181 | Special Equipment for User Testing | | | 6,268 | | 8,289 | | 8,289 | U |
| 182 | Tractor Yard | | | 7,191 | | 6,888 | | 6,888 | U |
| 183 | Closed Account Adjustments | | | 498 | | | | | U |
| | Total Other Support Equipment | | | 1,519,423 | | 1,371,856 | | 1,424,205 | |
| | Budget Activity 04: Spare and Repair Parts | | | | | | | | |
| | OPA2 | | | | | | | | |
| 184 | Initial Spares - C&E | | | 46,151 | | 27,243 | | 27,243 | U |
| | Total Spare and Repair Parts | | | 46,151 | | 27,243 | | 27,243 | |
| | Budget Activity 20: Undistributed | | | | | | | | |
| | Undistributed | | | | | | | | |
| 185 | Adj to Match Continuing Resolution | A | | | | -166,009 | | -166,009 | U |
| | Total Undistributed | | | | | -166,009 | | -166,009 | |
| | Total Other Procurement, Army | | | 6,818,676 | | 5,707,940 | | 6,157,285 | |

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 1, 2017 at 14:36:26

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 PB Request with CR Adj OCO Quantity | FY 2017 PB Request with CR Adj OCO Cost | FY 2017 Total PB Requests* with CR Adj OCO Quantity | FY 2017 Total PB Requests* with CR Adj OCO Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | FY 2017 Less Enacted Div B P.L.114-254** OCO Cost | FY 2017 Remaining Req with CR Adj OCO Quantity | FY 2017 Remaining Req with CR Adj OCO Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 181 | Special Equipment for User Testing | | | | | | | | | | U |
| 182 | Tractor Yard | | | | | | | | | | U |
| 183 | Closed Account Adjustments | | | | | | | | | | U |
| | Total Other Support Equipment | | | 241,510 | | 271,062 | | | | 271,062 | |
| | Budget Activity 04: Spare and Repair Parts | | | | | | | | | | |
| | OPA2 | | | | | | | | | | |
| 184 | Initial Spares - C&E | | | | | | | | | | U |
| | Total Spare and Repair Parts | | | | | | | | | | |
| | Budget Activity 20: Undistributed | | | | | | | | | | |
| | Undistributed | | | | | | | | | | |
| 185 | Adj to Match Continuing Resolution | A | | -197,414 | | -197,414 | | | | -197,414 | U |
| | Total Undistributed | | | -197,414 | | -197,414 | | | | -197,414 | |
| | Total Other Procurement, Army | | | 1,175,596 | | 1,572,459 | | -72,000 | | 1,500,459 | |

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 1, 2017 at 14:36:26

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity | Cost | FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity | Cost | FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity | Cost | FY 2017 Remaining Req with CR Adj Base + OCO Quantity | Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 181 | Special Equipment for User Testing | | | 8,289 | | 8,289 | | | | 8,289 | U |
| 182 | Tractor Yard | | | 6,888 | | 6,888 | | | | 6,888 | U |
| 183 | Closed Account Adjustments | | | | | | | | | | U |
| | Total Other Support Equipment | | | 1,613,366 | | 1,695,267 | | | | 1,695,267 | |
| | Budget Activity 04: Spare and Repair Parts | | | | | | | | | | |
| | OPA2 | | | | | | | | | | |
| 184 | Initial Spares - C&E | | | 27,243 | | 27,243 | | | | 27,243 | U |
| | Total Spare and Repair Parts | | | 27,243 | | 27,243 | | | | 27,243 | |
| | Budget Activity 20: Undistributed | | | | | | | | | | |
| | Undistributed | | | | | | | | | | |
| 185 | Adj to Match Continuing Resolution | A | | -363,423 | | -363,423 | | | | -363,423 | U |
| | Total Undistributed | | | -363,423 | | -363,423 | | | | -363,423 | |
| | Total Other Procurement, Army | | | 6,955,536 | | 7,729,744 | | -72,000 | | 7,657,744 | |

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 1, 2017 at 14:36:26

Department of the Army
FY 2018 President's Budget Request
Exhibit P-1 FY 2018 President's Budget Request
Total Obligational Authority
(Dollars in Thousands)

01 May 2017

Appropriation: 2035A Other Procurement, Army

| Line No | Item Nomenclature | Ident Code | FY 2018 Base Quantity | FY 2018 Base Cost | FY 2018 OCO Quantity | FY 2018 OCO Cost | FY 2018 Total Quantity | FY 2018 Total Cost | Sec |
|---|---|---|---|---|---|---|---|---|---|
| 181 | Special Equipment for User Testing | | | 5,319 | | | | 5,319 | U |
| 182 | Tractor Yard | | | 5,935 | | | | 5,935 | U |
| 183 | Closed Account Adjustments | | | | | | | | U |
| | Total Other Support Equipment | | | 1,359,097 | | 57,986 | | 1,417,083 | |
| | Budget Activity 04: Spare and Repair Parts | | | | | | | | |
| | OPA2 | | | | | | | | |
| 184 | Initial Spares - C&E | | | 38,269 | | | | 38,269 | U |
| | Total Spare and Repair Parts | | | 38,269 | | | | 38,269 | |
| | Budget Activity 20: Undistributed | | | | | | | | |
| | Undistributed | | | | | | | | |
| 185 | Adj to Match Continuing Resolution | A | | | | | | | U |
| | Total Undistributed | | | | | | | | |
| | Total Other Procurement, Army | | | 6,469,331 | | 405,575 | | 6,874,906 | |

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 1, 2017 at 14:36:26

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0603782A, 0605350A, 0300349A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 7,943 | 1,219 | 624 | 877 | - | 877 | 932 | 833 | 494 | 449 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 4,152.120 | 695.116 | 437.170 | 420.492 | - | 420.492 | 404.632 | 415.375 | 362.540 | 408.344 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 4,152.120 | 695.116 | 437.170 | 420.492 | - | 420.492 | 404.632 | 415.375 | 362.540 | 408.344 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **4,152.120** | **695.116** | **437.170** | **420.492** | **-** | **420.492** | **404.632** | **415.375** | **362.540** | **408.344** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 522.740 | 570.235 | 700.593 | 479.466 | - | 479.466 | 434.155 | 498.649 | 733.887 | 909.452 | Continuing | Continuing |

## Description:

Warfighter Information Network - Tactical (WIN-T) connects all users to each other from theater down to the maneuver battalion, to joint and multinational elements, and the Defense Information System Network (DISN). WIN-T employs a combination of terrestrial, airborne, and satellite-based transport options, to provide robust, redundant connectivity. Network modernization is one of the Army's top priorities, and WIN-T is its cornerstone program. It enables mission command on the move, keeping highly mobile and dispersed forces connected to one another and to the Army's global information network. With essential voice, video and data services, commanders can make decisions faster than ever before and from anywhere on the battlefield. WIN-T's infrastructure provides commanders and other users the ability to communicate via voice, data, and video simultaneously at all levels of security.

Warfighter Information Network- Tactical (WIN-T) Increment (Inc) 1: Networking At-the-Halt
A state-of-the-art, Beyond Line of Sight, at-the-halt communications network that ensures operational relevancy and interoperability with future increments. It provides the current Warfighter with communications backbone that enables them to exchange information (voice, data, and video) at high speeds with high reliability throughout the tactical Division, Brigade Combat Team (BCT), and Battalion level elements using a wired and wireless backbones for the tactical Network Operations Centers (NOC) The wireless solution leverages the National Security Agency approved Commercial for Classified Systems (CfSC) architecture within the Operations Centers allowing simple and quick deployment of the NOC equipment and C2 applications. Two sub-increments are noted as follows: (Increment 1a): Extended Networking at-the-Halt - with Ka military satellite communications capability; and (Increment 1b): Enhanced Networking at-the-Halt, building on the Increment 1a capability by adding the Net Centric Waveform (NCW) and the Department of Defense Information Network (DoDIN) compliant Colorless Core Capability. The NCW is essential to provide a meshed satellite network, minimizing latency through multiple hops at the below brigade HQs and the DoDIN compliant Colorless Core Capability allows an efficient transport of multiple classified and unclassified data streams between WIN-T Inc 1 and Inc 2, as well as to reach back hub facilities. The Increment 1 architecture is an integral part of the converged Network Operations (NETOPS) initiative allowing common NETOPS from any WIN-T assemblage. Regional Hub Nodes are the uppermost level of the tactical architecture which provides a sanctuary, overlapping global presence that all WIN-T increments and product lines can leverage for transport services.

WIN-T Increment 2: Initial Networking On-the-Move
Warfighter Information Network (WIN-T) Increment 2 (Inc 2) provides the Army with On-The-Move (OTM) networking capability. The WIN-T Inc 2 network retains capabilities delivered by WIN-T Inc 1 and by leveraging proven government and commercial technologies, adds greater network throughput and automated Network Management to optimize planning (to include spectrum use), initialization, monitoring and troubleshooting. WIN-T Inc 2 employs Satellite Communications (SATCOM) OTM to extend the network in maneuver Brigade Combat Teams (BCTs) to Company level through FY18. Using equipment mounted on combat platforms, WIN-T Inc 2 delivers a mobile capability that reduces reliance on fixed infrastructure and allows key leaders to move on the battlefield while retaining Situational Awareness and Mission

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0603782A, 0605350A, 0300349A |
| **Line Item MDAP/MAIS Code:** N/A | | |

Command capabilities. Using the Highband Networking Radio, with the Highband Networking Waveform and high performance antennas, the WIN-T Inc 2 Line-of-Sight network offers an adaptive 30 Megabit per second (Mbps) aggregate throughput to key leaders in their Command Post or in their vehicle. The WIN-T Inc 2 network is self-forming, which means that it automatically creates transmission paths based on terrain and environmental conditions; and self-healing, meaning that the paths will automatically re-route traffic to complete network transactions and calls even if one or more nodes break down or loses connectivity. This offers greater network reliability and better end-to-end connectivity than traditional point-to-point networks. WIN-T Inc 2 introduces the network management capability needed to keep the mobile and dispersed forces networked together through automated planning, initialization, monitoring, and troubleshooting. Finally, WIN-T Inc 2 adopts "Colorless Core" technology that encrypts both classified and unclassified user information in the network and minimizes the number of users on the "core" of the network. The Colorless Core allows commanders to utilize the tactical network without fear of the enemy intercepting information. Colorless Core is a technical insertion in the WIN-T Inc 1b network which enables information sharing between WIN-T Inc 1b and WIN-T Inc 2.

The WIN-T Inc 2 capabilities are identified for fielding to Armored, Infantry, and Stryker BCTs, Fires and CABs and Division Headquarters. The Point of Presence and the Tactical Communications Node have both satellite and Line-of-Sight communication capability. The Soldier Network Extension (SNE) provides satellite communication only. The Point of Presence and the Tactical Communications Node are deployed at Division, Brigade and Battalion echelons. The SNE serves as the S3 vehicle at Battalion level and is also deployed down to Company level through FY18, when Network Capability Review (NCR) removes SNEs from the Company Commanders.

WIN-T Inc 3 developed NetOps and NetCentric Waveform (NCW) updates will be inserted into WIN-T Increment 2 equipped units.

Area Common User System Modernization (ACUS MOD):
Supports the Bridge to Future Networks (BFN) systems architecture by providing items to modernize the network or tech refresh existing legacy equipment. ACUS Mod supports the Army's Transformation/ Modularity initiatives by developing, procuring, and fielding product improvements into the Army's Stryker Brigade Combat Teams (SBCTs) and 24 Expeditionary Signal Battalions (ESBs). Also provides support to those systems that were fielded under the Area Common User System Modernization Plan (ACUS MP). Overall, ACUS Mod supports the Army's mission by providing Ethernet local area network communications between Tactical Operational Centers (TOC); TOC & Tactical Internet network management capabilities; integrated voice, video and data services; Line of Sight (LOS) and Beyond Line of Sight (BLOS) transmission capability.

The ACUS Mod systems consist of: the High Capacity Line of Sight (HCLOS/AN/TRC-190) radio which provides a 16 Mbps line of site transmission capability required to transport the increased volume of data on the digital battlefield; the Battlefield Video-Teleconferencing Center (BVTC) provides Video Teleconference (VTC) and data collaboration to assist the commander in coordinating and interacting with different echelons and adjacent units; the AN/TRC-170 tropospheric scatter radio which provides Beyond Line Of Sight (BLOS) communications with ranges in excess of 100 miles and bandwidth of up to 16 Mbps; and the Single Shelter Switch (SSS) which provides commanders with a "First In" capability and building block for network expansion. The SSS is enhanced to provide Joint and Coalition interoperability using Commercial-Off-The-Shelf and Government-Off-The-Shelf (COTS/GOTS) architecture for technology upgrade ease. The aforementioned systems are an integral part of the Warfighter Information Network-Tactical (WIN-T) Increment 1 system architecture. The Tactical NetOps Management System (TNMS) is a scalable modular NetOps capability that operates on multiple client or server platforms. It is fielded to units not provided with WIN-T Inc 1 NetOps capabilities. The TNMS will facilitate decision-making necessary to quickly identify network problems, shift resources, change configurations and coordinate the management of the critical network infrastructure supporting Mission Command (MC)/Command and Control (C2) functions.

These systems will be fielded to WIN-T Inc 1 units according to the Army Force Generation (ARFORGEN) schedule. WIN-T is fielded to the maneuver BCTs, multifunctional Support Brigades, Divisions, Corps, and Expeditionary Signal Batellions. Currently, all of those elements will be fielded WIN-T Inc 1b by 1QFY17 except for those already fielded WIN-T Inc 2. WIN-T Inc 2 is currently fielded to fourteen BCTs and seven Divisions. WIN-T Inc 2 will be fielded to all maneuver BCTs and Divisions.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 754 | 325 | 659 | - | 659 | - | 247 | - | 449 |
| | Total Obligation Authority | 506.112 | 282.004 | 312.250 | - | 312.250 | - | 141.927 | - | 408.344 |
| ANG | Quantity | 450 | 288 | 218 | - | 218 | 932 | 586 | 494 | - |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:**<br>BW7100 / WIN-T - Ground Forces Tactical Network | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0603782A, 0605350A, 0300349A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total Obligation Authority | 185.824 | 151.686 | 108.242 | - | 108.242 | 404.632 | 273.448 | 362.540 | - |
| AR | Quantity | 15 | 11 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 3.180 | 3.480 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **1,219** | **624** | **877** | **-** | **877** | **932** | **833** | **494** | **449** |
| | **Total Obligation Authority** | **695.116** | **437.170** | **420.492** | **-** | **420.492** | **404.632** | **415.375** | **362.540** | **408.344** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:**<br>BW7100 / WIN-T - Ground Forces Tactical Network | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0603782A, 0605350A, 0300349A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | BW7110 / INCREMENT 1 - NETWORKING AT THE HALT | P-5a | | 346 | - / 781.387 | - / 200.437 | - / 109.567 | - / - | - / - | - / - |
| P-5 | BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE | P-5a, P-21 | | 349 | 7,324 / 2,729.901 | 847 / 416.463 | 341 / 291.933 | 877 / 420.492 | - / - | 877 / 420.492 |
| P-5 | BW7130 / WIN-T - ACUS MODS | P-5a | | | 619 / 640.832 | 372 / 78.216 | 283 / 35.670 | - / - | - / - | - / - |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **7,943 / 4,152.120** | **1,219 / 695.116** | **624 / 437.170** | **877 / 420.492** | **- / -** | **877 / 420.492** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $420.492 million supports WIN-T Increment 2 requirements below:

WIN-T Inc 2: FY 2018 Base procurement dollars in the amount of $420.492 million procures 61 communications nodes (30 TCNs, 31 PoPs) and 816 other Configuration Items for fielding to 3 BCTs, 1 Division, and 3 IBCT Eng Co and Mvr Bn. FY 2018 funds will also continue to field and support previously procured assets.

WIN-T Inc 2 unit of measure quantity shown on P-21 is based on Communications Nodes, which consist of Tactical Communications Node (TCN), Points of Presence (PoP) and Soldier Network Extension (SNE).

Average Weapon System Procurement Unit Cost varies due to mix of configuration items (CIs) and procured quantities of echelons (e.g., Stryker BCT) to achieve Army fielding requirements. For example, Divisions have fewer CIs resulting in a higher average cost per unit as is the case in FY17.

An Acquisition Decision Memorandum on May 30, 2014 directed the restructure of WIN-T Inc 3. As a result of this restructure, and once approved in an updated Capability Production Document (CPD), the Army Acquisition Objective (AAO) for WIN-T Inc 2 will be revised. At present, the AAO for WIN-T Inc 2 is 2,937 nodes, based on quantities in the WIN-T Inc 2 CPD approved by the Joint Requirements Oversight Council on 25 Nov 08, and most recently revised (Revision 3) and approved on 17 Oct 14.

WIN-T Inc 2 will be fielded based on the Army Force Generation cycle.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7110 / INCREMENT 1 - NETWORKING AT THE HALT |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** 346 | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 781.387 | 200.437 | 109.567 | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 781.387 | 200.437 | 109.567 | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **781.387** | **200.437** | **109.567** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Components (NCW MODEM) | - | - | 59.704 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MWO kits | - | - | 27.730 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ESB MWO kits(†) | 3,288.000 | 12 | 39.456 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BCT MWO kits(†) | 1,024.000 | 93 | 95.232 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Division MWO kits(†) | 1,341.000 | 9 | 12.069 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Network Operation - Signal School | - | - | 10.368 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ENG/INTG | - | - | 48.491 | - | - | 1.223 | - | - | - | - | - | - | - | - | - | - | - | - |
| Contractor Field Service Representative | - | - | 39.178 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Training | - | - | 45.169 | - | - | 10.645 | - | - | - | - | - | - | - | - | - | - | - | - |
| Fielding | - | - | 69.431 | - | - | 13.011 | - | - | - | - | - | - | - | - | - | - | - | - |
| RHN | - | - | 21.145 | - | - | 7.630 | - | - | 7.806 | - | - | - | - | - | - | - | - | - |
| PACSTAR | - | - | 8.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FDMA/STT's SATCOM Upgrade | - | - | 4.800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Initial Spares | - | - | 28.413 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Software | - | - | 23.092 | - | - | 1.736 | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12 | P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network | Item Number / Title [DODIC]: BW7110 / INCREMENT 1 - NETWORKING AT THE HALT |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: 346 | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| NETOPS HW | - | - | 73.412 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NETOPS SW | - | - | 34.497 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ESB NETOPS Kits(†) | - | - | - | 4,603.000 | 2 | 9.206 | - | - | - | - | - | - | - | - | - | - | - | - |
| BCT NETOPS kits(†) | - | - | - | 1,433.600 | 30 | 43.008 | - | - | - | - | - | - | - | - | - | - | - | - |
| Division NETOPS Kits(†) | - | - | - | 1,877.000 | 2 | 3.754 | - | - | - | - | - | - | - | - | - | - | - | - |
| NETOPS Fielding | - | - | 14.999 | - | - | 5.315 | - | - | - | - | - | - | - | - | - | - | - | - |
| NETOPS Training | - | - | 9.979 | - | - | 2.550 | - | - | - | - | - | - | - | - | - | - | - | - |
| Netops ENG/INTG | - | - | 16.513 | - | - | 4.779 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESB Tech-Mod Kits(†) | - | - | - | 5,589.000 | 2 | 11.178 | 5,918.000 | 2 | 11.836 | - | - | - | - | - | - | - | - | - |
| BCT Tech-Mod Kits(†) | - | - | - | 1,740.800 | 30 | 52.224 | 1,843.000 | 30 | 55.290 | - | - | - | - | - | - | - | - | - |
| Division Tech-Mod Kits(†) | - | - | - | 2,279.500 | 2 | 4.559 | 2,413.667 | 3 | 7.241 | - | - | - | - | - | - | - | - | - |
| Technical Refresh/ Modernization Fielding | - | - | - | - | - | 5.313 | - | - | 5.074 | - | - | - | - | - | - | - | - | - |
| Technical Refresh/ Modernization Training | - | - | - | - | - | 2.766 | - | - | 3.752 | - | - | - | - | - | - | - | - | - |
| Technical Refresh/ Modernization ENG/ INTG | - | - | - | - | - | 9.559 | - | - | 5.692 | - | - | - | - | - | - | - | - | - |
| Secure Wireless MWO kits(†) | 270.000 | 156 | 42.120 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Secure Wireless Support | - | - | 10.559 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RTCNE(†) | - | - | - | - | - | - | 133.613 | 62 | 8.284 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *734.357* | - | - | *188.456* | - | - | *104.975* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***734.357*** | **-** | **-** | ***188.456*** | **-** | **-** | ***104.975*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 21.634 | - | - | 5.510 | - | - | 4.000 | - | - | - | - | - | - | - | - | - |
| Contractor Management | - | - | 25.396 | - | - | 6.471 | - | - | 0.592 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***47.030*** | **-** | **-** | ***11.981*** | **-** | **-** | ***4.592*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **781.387** | **-** | **-** | **200.437** | **-** | **-** | **109.567** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7110 / INCREMENT 1 - NETWORKING AT THE HALT |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** 346 | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 200.437 | 109.567 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **200.437** | **109.567** | **-** | **-** | **-** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7110 / INCREMENT 1 - NETWORKING AT THE HALT |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESB MWO kits | | 2015 | ESB MWO Kits / Various | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2015 | Jul 2015 | 3 | 3,288.000 | Y | | Nov 2014 |
| BCT MWO kits | | 2015 | BCT MWO Kits / Various | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2015 | Jul 2015 | 27 | 1,024.000 | Y | | Nov 2014 |
| Division MWO kits | | 2015 | DIV MWO Kits / Various | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2015 | Jul 2015 | 1 | 1,341.000 | Y | | Nov 2014 |
| ESB NETOPS Kits | | 2016 | ESB NETOPS Kits / GDMS, Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2016 | May 2016 | 2 | 4,603.000 | Y | | Mar 2012 |
| BCT NETOPS kits | | 2016 | BCT NETOPS Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2016 | May 2016 | 30 | 1,433.600 | Y | | Mar 2012 |
| Division NETOPS Kits | | 2016 | DIV NETOPS Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2016 | May 2016 | 2 | 1,877.000 | Y | | Mar 2012 |
| ESB Tech-Mod Kits | | 2016 | ESB Tech-Mod Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2016 | May 2016 | 2 | 5,589.000 | Y | | Mar 2012 |
| ESB Tech-Mod Kits | | 2017 | ESB Tech-Mod Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2017 | May 2017 | 2 | 5,918.000 | Y | | Jul 2015 |
| BCT Tech-Mod Kits | | 2016 | BCT Tech-Mod Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2016 | May 2016 | 30 | 1,740.800 | Y | | Mar 2012 |
| BCT Tech-Mod Kits | | 2017 | BCT Tech-Mod Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground | Jan 2017 | May 2017 | 30 | 1,843.000 | Y | | Jul 2015 |
| Division Tech-Mod Kits | | 2016 | DIV Tech- Mod Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2016 | May 2016 | 2 | 2,279.500 | Y | | Mar 2012 |
| Division Tech-Mod Kits | | 2017 | DIV Tech- Mod Kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground | Jan 2017 | May 2017 | 3 | 2,413.667 | Y | | Jul 2015 |
| Secure Wireless MWO kits | | 2015 | Secure Wireless MWO kits / GDMS Taunton, MA | C / IDIQ | Aberdeen Proving Ground | Sep 2015 | Feb 2016 | 156 | 269.494 | Y | | Sep 2015 |
| RTCNE | | 2017 | TBD-RCTNE / TBD | TBD | TBD-RCTNE | Jun 2017 | Mar 2018 | 62 | 133.613 | | | |

**Remarks:**
1. In FY16 - 31 units will be fielded with Inc 1b MWO kits which were procured in FY15. In addition, Secure Wireless MWO kits which were procured in FY15 will be fielded.
2. In FY17 - 34 units will be fielded NETOPS/Modernization kits whcih were procured in FY16.

Various - Plan to use a combination of Global Tactical Advanced Communications Systems (GTACS), Common Hardware System (CHS) contract and in house agencies in order to achieve best value.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** 349 | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 7,324 | 847 | 341 | 877 | - | 877 |
| Gross/Weapon System Cost *($ in Millions)* | 2,729.901 | 416.463 | 291.933 | 420.492 | - | 420.492 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 2,729.901 | 416.463 | 291.933 | 420.492 | - | 420.492 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **2,729.901** | **416.463** | **291.933** | **420.492** | **-** | **420.492** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 372.734 | 491.692 | 856.109 | 479.466 | - | 479.466 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| TCN (COMM NODE)(†) | 3,128.152 | 231 | 722.603 | 2,618.565 | 23 | 60.227 | 6,436.667 | 6 | 38.620 | 2,857.000 | 30 | 85.710 | - | - | - | 2,857.000 | 30 | 85.710 |
| SNE (COMM NODE)(†) | 749.573 | 913 | 684.360 | 678.413 | 121 | 82.088 | - | - | - | - | - | 20.070 | - | - | - | - | - | 20.070 |
| PoP (COMM NODE)(†) | 1,507.883 | 223 | 336.258 | 1,095.808 | 26 | 28.491 | 2,809.333 | 6 | 16.856 | 1,660.935 | 31 | 51.489 | - | - | - | 1,660.935 | 31 | 51.489 |
| NOSC-B | 2,904.840 | 25 | 72.621 | 2,764.000 | 2 | 5.528 | - | - | - | 3,486.333 | 3 | 10.459 | - | - | - | 3,486.333 | 3 | 10.459 |
| NOSC-D | 2,370.176 | 17 | 40.293 | 2,866.000 | 1 | 2.866 | 5,682.500 | 2 | 11.365 | 3,599.000 | 1 | 3.599 | - | - | - | 3,599.000 | 1 | 3.599 |
| VWP B-KIT | 141.207 | 295 | 41.656 | 168.400 | 40 | 6.736 | 170.333 | 6 | 1.022 | 1,557.111 | 9 | 14.014 | - | - | - | 1,557.111 | 9 | 14.014 |
| TR-T | 1,141.730 | 37 | 42.244 | 1,575.667 | 3 | 4.727 | 2,540.000 | 3 | 7.620 | 1,171.250 | 4 | 4.685 | - | - | - | 1,171.250 | 4 | 4.685 |
| JGN | 1,315.938 | 16 | 21.055 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MCN-B | 78.000 | 43 | 3.354 | 55.667 | 3 | 0.167 | 110.500 | 2 | 0.221 | 58.750 | 4 | 0.235 | - | - | - | 58.750 | 4 | 0.235 |
| IP Phone | 0.466 | 3,725 | 1.735 | 1.379 | 430 | 0.593 | 2.759 | 220 | 0.607 | 1.502 | 540 | 0.811 | - | - | - | 1.502 | 540 | 0.811 |
| IP Phone Secure | 1.551 | 1,578 | 2.447 | 5.349 | 175 | 0.936 | 10.922 | 90 | 0.983 | 5.844 | 225 | 1.315 | - | - | - | 5.844 | 225 | 1.315 |
| STT+ | 499.702 | 215 | 107.436 | 456.957 | 23 | 10.510 | 919.333 | 6 | 5.516 | 491.767 | 30 | 14.753 | - | - | - | 491.767 | 30 | 14.753 |
| Regional Hub Nodes | 1,851.333 | 6 | 11.108 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post Deployment Software Support | - | - | 90.223 | - | - | 71.103 | - | - | 54.627 | - | - | 66.907 | - | - | - | - | - | 66.907 |
| *Subtotal: Recurring Cost* | - | - | *2,177.395* | - | - | *273.972* | - | - | *137.437* | - | - | *274.047* | - | - | - | - | - | *274.047* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** 349 | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Non-Recurring Engineering | - | - | 51.632 | - | - | 13.135 | - | - | - | - | - | - | - | - | - | - | - | - |
| End of Life | - | - | 3.377 | - | - | 2.948 | - | - | 72.449 | - | - | 24.267 | - | - | - | - | - | 24.267 |
| *Subtotal: Non Recurring Cost* | - | - | *55.009* | - | - | *16.083* | - | - | *72.449* | - | - | *24.267* | - | - | - | - | - | *24.267* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***2,232.404*** | **-** | **-** | ***290.055*** | **-** | **-** | ***209.886*** | **-** | **-** | ***298.314*** | **-** | **-** | **-** | **-** | **-** | ***298.314*** |
| Support - Data Cost | | | | | | | | | | | | | | | | | | |
| Management Data | - | - | 3.876 | - | - | - | - | - | 2.708 | - | - | 3.371 | - | - | - | - | - | 3.371 |
| *Subtotal: Support - Data Cost* | **-** | **-** | ***3.876*** | **-** | **-** | **-** | **-** | **-** | ***2.708*** | **-** | **-** | ***3.371*** | **-** | **-** | **-** | **-** | **-** | ***3.371*** |
| Support - Engineering Change Proposals Cost | | | | | | | | | | | | | | | | | | |
| Engineering Change Proposals | - | - | 164.364 | - | - | 26.602 | - | - | 18.015 | - | - | 20.675 | - | - | - | - | - | 20.675 |
| *Subtotal: Support - Engineering Change Proposals Cost* | **-** | **-** | ***164.364*** | **-** | **-** | ***26.602*** | **-** | **-** | ***18.015*** | **-** | **-** | ***20.675*** | **-** | **-** | **-** | **-** | **-** | ***20.675*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 60.854 | - | - | 50.846 | - | - | 27.182 | - | - | 52.659 | - | - | - | - | - | 52.659 |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | ***60.854*** | **-** | **-** | ***50.846*** | **-** | **-** | ***27.182*** | **-** | **-** | ***52.659*** | **-** | **-** | **-** | **-** | **-** | ***52.659*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 97.938 | - | - | 15.076 | - | - | 15.499 | - | - | 15.725 | - | - | - | - | - | 15.725 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***97.938*** | **-** | **-** | ***15.076*** | **-** | **-** | ***15.499*** | **-** | **-** | ***15.725*** | **-** | **-** | **-** | **-** | **-** | ***15.725*** |
| Support - System Test and Evaluation Cost | | | | | | | | | | | | | | | | | | |
| Operational Test and Evaluation | - | - | 112.043 | - | - | 32.591 | - | - | 10.525 | - | - | 22.763 | - | - | - | - | - | 22.763 |
| *Subtotal: Support - System Test and Evaluation Cost* | **-** | **-** | ***112.043*** | **-** | **-** | ***32.591*** | **-** | **-** | ***10.525*** | **-** | **-** | ***22.763*** | **-** | **-** | **-** | **-** | **-** | ***22.763*** |
| Support - Training Cost | | | | | | | | | | | | | | | | | | |
| Services | - | - | 58.423 | - | - | 1.293 | - | - | 8.118 | - | - | 6.985 | - | - | - | - | - | 6.985 |
| *Subtotal: Support - Training Cost* | **-** | **-** | ***58.423*** | **-** | **-** | ***1.293*** | **-** | **-** | ***8.118*** | **-** | **-** | ***6.985*** | **-** | **-** | **-** | **-** | **-** | ***6.985*** |
| **Gross/Weapon System Cost** | **372.734** | **7,324** | **2,729.901** | **491.692** | **847** | **416.463** | **856.109** | **341** | **291.933** | **479.466** | **877** | **420.492** | **-** | **-** | **-** | **479.466** | **877** | **420.492** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** 349 | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 553 | 172 | 659 | - | 659 |
| | Total Obligation Authority | 262.619 | 146.047 | 312.250 | - | 312.250 |
| ANG | Quantity | 294 | 169 | 218 | - | 218 |
| | Total Obligation Authority | 153.844 | 145.886 | 108.242 | - | 108.242 |
| **Total: Secondary Distribution** | **Quantity** | **847** | **341** | **877** | **-** | **877** |
| | **Total Obligation Authority** | **416.463** | **291.933** | **420.492** | **-** | **420.492** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12 | P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network | Item Number / Title [DODIC]: BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCN (COMM NODE)(†) | | 2016 | General Dynamics C4 Systems / Taunton MA | SS / IDIQ | Aberdeen Proving Ground, MD | Mar 2016 | Apr 2017 | 23 | 2,618.570 | | | |
| TCN (COMM NODE)(†) | | 2017 | General Dynamics C4 Systems / Taunton MA | SS / IDIQ | Aberdeen Proving Ground, MD | Mar 2017 | Aug 2018 | 6 | 6,436.667 | | | |
| TCN (COMM NODE)(†) | | 2018 | General Dynamics C4 Systems / Taunton MA | SS / IDIQ | Aberdeen Proving Ground, MD | Mar 2018 | Apr 2019 | 30 | 2,857.000 | | | |
| SNE (COMM NODE)(†) | | 2016 | General Dynamics C4 Systems / Taunton MA | SS / IDIQ | Aberdeen Proving Ground, MD | Mar 2016 | Apr 2017 | 121 | 678.410 | | | |
| PoP (COMM NODE)(†) | | 2016 | General Dynamics C4 Systems / Taunton MA | SS / IDIQ | Aberdeen Proving Ground, MD | Mar 2016 | Aug 2017 | 26 | 1,095.810 | | | |
| PoP (COMM NODE)(†) | | 2017 | General Dynamics C4 Systems / Taunton MA | SS / IDIQ | Aberdeen Proving Ground, MD | Mar 2017 | Aug 2018 | 6 | 2,809.333 | | | |
| PoP (COMM NODE)(†) | | 2018 | General Dynamics C4 Systems / Taunton MA | SS / IDIQ | Aberdeen Proving Ground, MD | Mar 2018 | Apr 2019 | 31 | 1,660.940 | | | |

(†) indicates the presence of a P-21

**Remarks:**
Procurement of Lot 4 SNEs and Lot 5 Hardware was deferred until FRP authorization 11 May 2015. Contract awarded 15 Jun 15. Lot 4 SNEs are included in Prior Year Quantity count as an FY13 OPA-funded procurement.

1. From FY09-FY15 – 20 BCTs and 7 DIV HQs were procured, along with 5 Fixed Regional Hubs, 2 Training Bases, 1 ABCT Eng Co and Mvr Bn, 10 IBCT Eng Co and Mvr Bn, and 4 SBCT Eng Co; 14 BCTs and 6 DIV HQs along with 4 Fixed Regional Hubs, 2 Training Bases, 4 IBCT Eng Co and Mvr Bn, and 2 SBCT Eng Co were fielded.
2. In FY16 – 2 BCTs, 1 DIV HQs, 4 IBCT Co Eng and Mvr Bn, and 1 SBCT Eng Co were procured. 1 BCT, 1 DIV HQ, 1 Regional Hub Node, and 4 IBCT Eng Co and Mvr Bn were fielded.
3. In FY17 – 2 DIV HQs will be procured. 2 BCTs, 2 DIV HQs, 3 IBCT Eng Co and Mvr Bn and 1 SBCT Eng Co will be fielded.
4. In FY 18 – 3 BCTs, 1 DIV HQ, 1 FAB, 2 IBCT Eng Co and Mvr Bn, and 2 SBCT Eng Co will be procured. 3 BCTs, 1 DIV HQs, and 3 IBCT Eng Co and Mvr Bn will be fielded.

*18 month cycle from Procurement to Delivery

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| TCN (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 231 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 23 | 0 | 23 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 11 |
| | 1 | 2017 | ARMY | 6 | 0 | 6 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 6 |
| | 1 | 2018 | ARMY | 30 | 0 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | 30 |
| SNE (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 913 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2016 | ARMY | 121 | 0 | 121 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | 10 | 10 | 10 | 10 | 10 | 60 |
| PoP (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2016 | ARMY | 26 | 0 | 26 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | 20 |
| | 3 | 2017 | ARMY | 6 | 0 | 6 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 6 |
| | 3 | 2018 | ARMY | 31 | 0 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | 31 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| TCN (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 231 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 23 | 12 | 11 | 2 | 2 | 2 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 6 | 0 | 6 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 30 | 0 | 30 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | 3 | 3 | 3 | 3 | 12 |
| SNE (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 913 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2016 | ARMY | 121 | 61 | 60 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | 0 |
| PoP (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2016 | ARMY | 26 | 6 | 20 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | 0 |
| | 3 | 2017 | ARMY | 6 | 0 | 6 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | 0 |
| | 3 | 2018 | ARMY | 31 | 0 | 31 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | 3 | 3 | 3 | 3 | 13 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | Calendar Year 2021 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| TCN (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 231 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 23 | 23 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 6 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 30 | 18 | 12 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | 0 |
| SNE (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 913 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2016 | ARMY | 121 | 121 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| PoP (COMM NODE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 223 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2016 | ARMY | 26 | 26 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 3 | 2017 | ARMY | 6 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 3 | 2018 | ARMY | 31 | 18 | 13 | 3 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 12 | **P-1 Line Item Number / Title:**<br>BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:**<br>BW7115 / INCREMENT 2 - INITIAL NETWORKING ON THE MOVE |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | General Dynamics C4 Systems - Taunton MA | 1 | 69 | 123 | 0 | 5 | 13 | 18 | 0 | 5 | 13 | 18 |
| 2 | General Dynamics C4 Systems - Taunton MA | 1 | 69 | 123 | 0 | 5 | 13 | 18 | 0 | 5 | 13 | 18 |
| 3 | General Dynamics C4 Systems - Taunton MA | 1 | 69 | 123 | 0 | 5 | 13 | 18 | 0 | 5 | 13 | 18 |

**Remarks:**
Initial and Reorder lead times for Admin and Manufacturing are the same due to long lead materials. Qty 119 ADM Restricted SNEs were moved from FY13 OPA to FY15 OPA procurement. Production Rates are Monthly.

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12 | P-1 Line Item Number / Title: BW7100 / WIN-T - Ground Forces Tactical Network | Item Number / Title [DODIC]: BW7130 / WIN-T - ACUS MODS |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 619 | 372 | 283 | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 640.832 | 78.216 | 35.670 | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 640.832 | 78.216 | 35.670 | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **640.832** | **78.216** | **35.670** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 1,035.270 | 210.258 | 126.042 | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| AN/TRC-190 (HCLOS)(†) | 65.000 | 1,001 | 65.065 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TNMS(†) | 112.000 | 320 | 35.840 | 46.000 | 89 | 4.094 | - | - | - | - | - | - | - | - | - | - | - | - |
| BVTC III(†) | 39.000 | 283 | 11.037 | 42.000 | 283 | 11.886 | 40.580 | 283 | 11.484 | - | - | - | - | - | - | - | - | - |
| SSS Tech Refresh/1b | - | - | 0.700 | - | - | 14.275 | - | - | 0.402 | - | - | - | - | - | - | - | - | - |
| Other Hardware (CHS item & requisitions) | - | - | 168.677 | - | - | 13.359 | - | - | 1.019 | - | - | - | - | - | - | - | - | - |
| Software | - | - | 20.646 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Package Fielding | - | - | 99.031 | - | - | 10.836 | - | - | 1.880 | - | - | - | - | - | - | - | - | - |
| Logistics | - | - | 90.148 | - | - | 6.768 | - | - | 1.730 | - | - | - | - | - | - | - | - | - |
| Engineering and Integration | - | - | 118.582 | - | - | 8.018 | - | - | 3.406 | - | - | - | - | - | - | - | - | - |
| Testing (Unit Validation&Certification) | - | - | 10.108 | - | - | 1.158 | - | - | 1.017 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *619.834* | - | - | *70.394* | - | - | *20.938* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***619.834*** | **-** | **-** | ***70.394*** | **-** | **-** | ***20.938*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 9.660 | - | - | 3.598 | - | - | 11.250 | - | - | - | - | - | - | - | - | - |
| Contractor Management | - | - | 11.338 | - | - | 4.224 | - | - | 3.482 | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7130 / WIN-T - ACUS MODS |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Support - Program Management Cost* | - | - | *20.998* | - | - | *7.822* | - | - | *14.732* | - | - | - | - | - | - | - | - | - |
| **Gross/Weapon System Cost** | **1,035.270** | **619** | **640.832** | **210.258** | **372** | **78.216** | **126.042** | **283** | **35.670** | - | - | - | - | - | - | - | - | - |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 201 | 153 | - | - | - |
| | Total Obligation Authority | 43.056 | 26.390 | - | - | - |
| ANG | Quantity | 156 | 119 | - | - | - |
| | Total Obligation Authority | 31.980 | 5.800 | - | - | - |
| AR | Quantity | 15 | 11 | - | - | - |
| | Total Obligation Authority | 3.180 | 3.480 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **372** | **283** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **78.216** | **35.670** | **-** | **-** | **-** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** BW7100 / WIN-T - Ground Forces Tactical Network | **Item Number / Title [DODIC]:** BW7130 / WIN-T - ACUS MODS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AN/TRC-190 (HCLOS) | | 2015 | Ultra Electronics(TRC-190) / Montreal, Canada | C / FFP | Aberdeen Proving Ground, MD | Jan 2015 | Jul 2015 | 204 | 65.590 | | | |
| TNMS | | 2015 | GDMS-TNMS / Taunton, MA | C / FFP | Aberdeen Proving Ground, MD | Jan 2015 | Jul 2015 | 132 | 44.660 | | | |
| TNMS | | 2016 | GDMS-TNMS / Taunton, MA | C / FFP | Aberdeen Proving Ground, MD | Jan 2016 | Jul 2016 | 89 | 46.000 | | | |
| BVTC III | | 2015 | GDMS-BVTC / Taunton, MA | C / FFP | Aberdeen Proving Ground, MD | Jul 2015 | Jan 2016 | 283 | 39.000 | | | |
| BVTC III | | 2016 | GDMS-BVTC / Taunton, MA | C / FFP | Aberdeen Proving Ground, MD | Jan 2016 | Jul 2016 | 283 | 42.000 | | | |
| BVTC III | | 2017 | GDMS-BVTC / Taunton, MA | C / FFP | Aberdeen Proving Ground, MD | Jan 2017 | Jul 2017 | 283 | 40.580 | | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:** B00010 / Signal Modernization Program |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604818A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 34 | 88 | 168 | 216 | 4 | 220 | 301 | 351 | 293 | 242 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 73.942 | 47.024 | 58.250 | 92.718 | 4.900 | 97.618 | 127.074 | 160.681 | 137.475 | 122.153 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 73.942 | 47.024 | 58.250 | 92.718 | 4.900 | 97.618 | 127.074 | 160.681 | 137.475 | 122.153 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **73.942** | **47.024** | **58.250** | **92.718** | **4.900** | **97.618** | **127.074** | **160.681** | **137.475** | **122.153** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,174.765 | 534.364 | 346.726 | 429.250 | 1,225.000 | 443.718 | 422.173 | 457.781 | 469.198 | 504.764 | Continuing | Continuing |

## Description:

The Signal Modernization (SIGMOD) funding line will be used to fund new and enhanced capabilities to modernize the Expeditionary Signal Battalions (ESBs) by reducing Size, Weight and Power (SWaP) and providing more expeditionary communications, leveraging the Warfighter Information Network - Tactical (WIN-T) network.

SIGMOD capabilities will provide upgrades and increase capabilities to Army ESB and other units equipped with WIN-T, allowing them to support the full spectrum of operations with Cellular Solution (4G LTE & WIFI), Commercial Coalition Equipment, and Top Secret enclaves. Additionally, SIGMOD will provide redundancy communications in a satellite denied environment by providing improved Line of Site (Terrestrial Transmission System (TRILOS)) and beyond line of sight (Troposcatter Transmission System (TROPO)) radio systems.

SIGMOD Capabilities:

Commercial Coalition Equipment (CCE): Provides both Commercial and Coalition communications cross-banding capabilities supporting command control and coalition partners in order to enable Mission Command between forces. By integrating disparate and unique forces communications together, the network is extended and Mission Command is further enabled.

Modular Communications Node - Advanced Enclave (MCN-AE): Provides Top Secret/Sensitive Compartmented Information (TS/SCI) communications to Brigades, Divisions, Corps, and Signal Battalions over the WIN-T network.

Cellular Solution (4G LTE and WiFi): Expands the WIN-T network below battalion, using an expeditionary 4G LTE cellular and wireless (WiFi) network. The 4G LTE network provides a wide area of Situational Awareness (SA) and Mission Command (MC) capability via a mobile phone down to the individual Soldier. The WiFi capability enables untethered Mission Command within the command post for wireless laptops, tablets and phone, dramatically reducing TOC set-up and teardown times.

Terrestrial Transmission System (TRILOS): Enables Mission Command in a satellite denied environment at higher throughput than the current High Capacity Line of Sight System (HCLOS). TRILOS will enable Army units to reduce reliance on costly satellite band-width. TRILOS will extend the network by utilizing a significantly reduced SWaP radio verses the aging HCLOS system.

Troposcatter Transmission System (TROPO): Enables Mission Command in a satellite denied environment by providing Beyond Line of Site (BLOS) capability over longer ranges and at higher throughput than the current BLOS System. TROPO extends the network by utilizing a significantly reduced SWaP radio verses the current system. TROPO will enable Army units to reduce reliance on costly satellite band-width.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 88 | 112 | 197 | 4 | 201 | 253 | 337 | 269 | 222 |
| | Total Obligation Authority | 47.024 | 39.164 | 83.213 | 4.900 | 88.113 | 107.073 | 155.171 | 125.849 | 110.419 |
| ANG | Quantity | - | 56 | - | - | - | 48 | - | 12 | 10 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:**<br>B00010 / Signal Modernization Program |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604818A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total Obligation Authority | - | 19.086 | - | - | - | 20.001 | - | 5.813 | 5.917 |
| AR | Quantity | - | - | 19 | - | 19 | - | 14 | 12 | 10 |
| | Total Obligation Authority | - | - | 9.505 | - | 9.505 | - | 5.510 | 5.813 | 5.817 |
| **Total: Secondary Distribution** | **Quantity** | **88** | **168** | **216** | **4** | **220** | **301** | **351** | **293** | **242** |
| | **Total Obligation Authority** | **47.024** | **58.250** | **92.718** | **4.900** | **97.618** | **127.074** | **160.681** | **137.475** | **122.153** |

| **Exhibit P-40, Budget Line Item Justification:** FY 2018 Army | **Date:** May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:**<br>B00010 / Signal Modernization Program |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604818A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B00010 / Signal Modernization Program | P-5a, P-21 | | | 34 / 73.942 | 88 / 47.024 | 168 / 58.250 | 216 / 92.718 | 4 / 4.900 | 220 / 97.618 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **34 / 73.942** | **88 / 47.024** | **168 / 58.250** | **216 / 92.718** | **4 / 4.900** | **220 / 97.618** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $92.718 million supports procurement of eighteen (18) Commercial Coalition Equipment (CCE), twenty eight (28) Cellular Solution (consisting of 4G and WiFi) systems and thirty four (34) Top Secret-Sensitive Compartmented Information (TS-SCI) enclaves to support Transport Convergence. In addition, procures one hundred and twenty (120) TRILOS and sixteen (16) TROPO to support at the halt terrestrial and beyond line of sight communications supporting WIN-T Increment 1 units. Six (6) of the sixteen (16) TROPO systems will support FY19 test requirement.

FY 2018 OCO procurement dollars in the amount of $4.900 million supports procurement of four (4) TROPO in support of Coalition Joint Task Force – Operation Inherent Resolve (CJTF-OIR)

The Transmission Systems Capability Production Document (CPD) was approved on 30 Jan 2015.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12 | P-1 Line Item Number / Title: B00010 / Signal Modernization Program | Item Number / Title [DODIC]: B00010 / Signal Modernization Program |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 34 | 88 | 168 | 216 | 4 | 220 |
| Gross/Weapon System Cost *($ in Millions)* | 73.942 | 47.024 | 58.250 | 92.718 | 4.900 | 97.618 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 73.942 | 47.024 | 58.250 | 92.718 | 4.900 | 97.618 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **73.942** | **47.024** | **58.250** | **92.718** | **4.900** | **97.618** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,174.765 | 534.364 | 346.726 | 429.250 | 1,225.000 | 443.718 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware-Equipment | 1,300.000 | 34 | 44.200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TS-SCI HW-Equipment | - | - | - | 75.000 | 48 | 3.600 | 76.300 | 10 | 0.763 | 77.000 | 34 | 2.618 | - | - | - | 77.000 | 34 | 2.618 |
| CCE HW-Equipment | - | - | - | 233.000 | 12 | 2.796 | 238.000 | 4 | 0.952 | 241.000 | 18 | 4.338 | - | - | - | 241.000 | 18 | 4.338 |
| Cellular Solution HW - Equipment(†) | - | - | - | 850.000 | 28 | 23.800 | 882.000 | 16 | 14.112 | 892.000 | 28 | 24.976 | - | - | - | 892.000 | 28 | 24.976 |
| TROPO HW-Equipment(†) | - | - | - | - | - | - | 562.000 | 3 | 1.686 | 640.000 | 16 | 10.240 | 640.000 | 4 | 2.560 | 640.000 | 20 | 12.800 |
| TRILOS HW - Equipment(†) | - | - | - | - | - | - | 125.000 | 135 | 16.875 | 124.000 | 120 | 14.880 | - | - | - | 124.000 | 120 | 14.880 |
| Engineering / Intergation Support | - | - | 6.026 | - | - | 3.534 | - | - | 4.136 | - | - | 8.202 | - | - | 0.148 | - | - | 8.350 |
| Non- Recurring Engineering | - | - | 2.140 | - | - | 1.941 | - | - | 2.757 | - | - | 2.798 | - | - | 0.300 | - | - | 3.098 |
| System Test / Validation | - | - | 0.559 | - | - | 1.476 | - | - | 1.723 | - | - | 2.916 | - | - | 0.100 | - | - | 3.016 |
| Training | - | - | 5.400 | - | - | 2.534 | - | - | 3.936 | - | - | 3.980 | - | - | 0.251 | - | - | 4.231 |
| Fielding | - | - | 5.510 | - | - | 2.094 | - | - | 3.102 | - | - | 1.151 | - | - | 0.351 | - | - | 1.502 |
| Intital Spares | - | - | 2.250 | - | - | 1.505 | - | - | 2.878 | - | - | 5.006 | - | - | 0.640 | - | - | 5.646 |
| Software | - | - | 4.050 | - | - | 1.945 | - | - | 3.447 | - | - | 5.448 | - | - | 0.550 | - | - | 5.998 |
| *Subtotal: Recurring Cost* | - | - | *70.135* | - | - | *45.225* | - | - | *56.367* | - | - | *86.553* | - | - | *4.900* | - | - | *91.453* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***70.135*** | **-** | **-** | ***45.225*** | **-** | **-** | ***56.367*** | **-** | **-** | ***86.553*** | **-** | **-** | ***4.900*** | **-** | **-** | ***91.453*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 12 | P-1 Line Item Number / Title: B00010 / Signal Modernization Program | Item Number / Title [DODIC]: B00010 / Signal Modernization Program |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 2.089 | - | - | 0.812 | - | - | 0.830 | - | - | 3.096 | - | - | - | - | - | 3.096 |
| Contractor Management | - | - | 1.718 | - | - | 0.987 | - | - | 1.053 | - | - | 3.069 | - | - | - | - | - | 3.069 |
| *Subtotal: Support - Program Management Cost* | ***-*** | ***-*** | ***3.807*** | ***-*** | ***-*** | ***1.799*** | ***-*** | ***-*** | ***1.883*** | ***-*** | ***-*** | ***6.165*** | ***-*** | ***-*** | ***-*** | ***-*** | ***-*** | ***6.165*** |
| **Gross/Weapon System Cost** | **2,174.765** | **34** | **73.942** | **534.364** | **88** | **47.024** | **346.726** | **168** | **58.250** | **429.250** | **216** | **92.718** | **1,225.000** | **4** | **4.900** | **443.718** | **220** | **97.618** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 88 | 112 | 197 | 4 | 201 |
| | Total Obligation Authority | 47.024 | 39.164 | 83.213 | 4.900 | 88.113 |
| ANG | Quantity | - | 56 | - | - | - |
| | Total Obligation Authority | - | 19.086 | - | - | - |
| AR | Quantity | - | - | 19 | - | 19 |
| | Total Obligation Authority | - | - | 9.505 | - | 9.505 |
| **Total: Secondary Distribution** | **Quantity** | **88** | **168** | **216** | **4** | **220** |
| | **Total Obligation Authority** | **47.024** | **58.250** | **92.718** | **4.900** | **97.618** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** B00010 / Signal Modernization Program | **Item Number / Title [DODIC]:** B00010 / Signal Modernization Program |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cellular Solution HW - Equipment(†) | | 2016 | GDMS CHS IV / Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | May 2016 | Sep 2016 | 28 | 850.000 | Y | | |
| Cellular Solution HW - Equipment(†) | | 2017 | GDMS CHS IV / Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2017 | May 2017 | 16 | 882.000 | Y | | |
| Cellular Solution HW - Equipment(†) | | 2018 | GDMS CHS IV / Taunton, MA | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2018 | May 2018 | 28 | 892.000 | | | |
| TROPO HW-Equipment(†) | | 2017 | TBD / Aberdeen Proving Ground, MD | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2017 | Jul 2017 | 3 | 562.000 | N | | |
| TROPO HW-Equipment(†) | | 2018 | TBD / Aberdeen Proving Ground, MD | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2018 | Jul 2018 | 20 | 640.000 | Y | | |
| TRILOS HW - Equipment(†) | | 2017 | TBD / Aberdeen Proving Ground, MD | C / IDIQ | Aberdeen Proving Ground, MD | Jun 2017 | Jan 2018 | 135 | 125.000 | | | |
| TRILOS HW - Equipment(†) | | 2018 | TBD / Aberdeen Proving Ground, MD | C / IDIQ | Aberdeen Proving Ground, MD | Aug 2018 | Mar 2019 | 120 | 124.000 | | | |

(†) indicates the presence of a P-21

| Exhibit P-21, Production Schedule: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** B00010 / Signal Modernization Program | **Item Number / Title [DODIC]:** B00010 / Signal Modernization Program |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Cellular Solution HW - Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 28 | 0 | 28 | | | | | | | | A - | - | - | - | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | | 0 |
| | 1 | 2017 | ARMY | 16 | 0 | 16 | | | | | | | | | | | | | | | | A - | - | - | - | 2 | 2 | 2 | 2 | 2 | 6 |
| | 1 | 2018 | ARMY | 28 | 0 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| TROPO HW-Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2017 | ARMY | 3 | 0 | 3 | | | | | | | | | | | | | | | | A - | - | - | - | - | - | 1 | 1 | 1 | 0 |
| | 2 | 2018 | ARMY | 20 | 0 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| TRILOS HW - Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2017 | ARMY | 135 | 0 | 135 | | | | | | | | | | | | | | | | | | | | | A - | - | - | - | 135 |
| | 3 | 2018 | ARMY | 120 | 0 | 120 | | | | | | | | | | | | | | | | | | | | | | | | | 120 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** B00010 / Signal Modernization Program | **Item Number / Title [DODIC]:** B00010 / Signal Modernization Program |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Cellular Solution HW - Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 28 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 16 | 10 | 6 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 28 | 0 | 28 | | | | A - | - | - | - | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | | | | | 0 |
| TROPO HW-Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2017 | ARMY | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2018 | ARMY | 20 | 0 | 20 | | | | A - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | 0 |
| TRILOS HW - Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2017 | ARMY | 135 | 0 | 135 | - | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 10 | 10 | 10 | | | | | | | | | | 0 |
| | 3 | 2018 | ARMY | 120 | 0 | 120 | | | | | | | | | | | A - | - | - | - | - | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 50 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** FY 2018 Army | **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12

**P-1 Line Item Number / Title:** B00010 / Signal Modernization Program

**Item Number / Title [DODIC]:** B00010 / Signal Modernization Program

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | Fiscal Year 2021 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | Calendar Year 2021 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2019 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Cellular Solution HW - Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 28 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 16 | 16 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 28 | 28 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| TROPO HW-Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2017 | ARMY | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2018 | ARMY | 20 | 20 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| TRILOS HW - Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2017 | ARMY | 135 | 135 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 3 | 2018 | ARMY | 120 | 70 | 50 | 10 | 10 | 10 | 10 | 10 | | | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| Exhibit P-21, Production Schedule: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 12 | **P-1 Line Item Number / Title:** B00010 / Signal Modernization Program | **Item Number / Title [DODIC]:** B00010 / Signal Modernization Program |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | GDMS CHS IV - Taunton, MA | 1 | 10 | 250 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 |
| 2 | TBD - Aberdeen Proving Ground, MD | 1 | 5 | 200 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |
| 3 | TBD - Aberdeen Proving Ground, MD | 1 | 5 | 200 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 |

**Remarks:**
Production rates represent monthly values.

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:** B07100 / Tactical Network Technology Mod In Svc |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 150.497 | - | 150.497 | 143.792 | 127.736 | 130.766 | 130.753 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 150.497 | - | 150.497 | 143.792 | 127.736 | 130.766 | 130.753 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **150.497** | **-** | **150.497** | **143.792** | **127.736** | **130.766** | **130.753** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Tactical Network Technology Mod in Service (TNT-MIS) is a realignment of funding programmed in WIN-T Increment I.

Warfighter Information Network - Tactical (WIN-T) TNT-MIS provides refresh of obsolete/non-sustainable, End of Life, commercial tactical technology and other Information Technology (IT) component end item equipment (switches, routers, servers etc. ...) procured under tactical networking efforts. Technical refresh and modernization are critical to ensure the Army's tactical network maintains its security posture and compliance with new Information Assurance policies. TNT MIS is executing a 7-year tech refresh cycle to counter obsolescence and to sustain Commercial off the Shelf (COTS) IT components. Tech Refresh reduces life cycle costs by reducing Size, Weight and Power through collapsing and converging capabilities that previously resided on individual hardware components into virtual servers, and leveraging common COTS solutions across various programs.

Warfighter Information Network - Tactical (WIN-T) connects all users to each other from theater down to the maneuver battalion, to joint and multinational elements, and the Defense Information System Network (DISN). WIN-T employs a combination of terrestrial, airborne, and satellite-based transport options, to provide robust, redundant connectivity. Network modernization is the Army's top priority, and WIN-T is its cornerstone program. It enables mission command on the move, keeping highly mobile and dispersed forces connected to one another and to the Army's global information network. With essential voice, video and data services, commanders can make decisions faster than ever before and from anywhere on the battlefield. WIN-T's infrastructure provides commanders and other users the ability to communicate via voice, data, and video simultaneously at all levels of security.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:**<br>B07100 / Tactical Network Technology Mod In Svc |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B07110 / Tactical Network Upgrades | P-5a | | | - / - | - / - | - / - | - / 150.497 | - / - | - / 150.497 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / -** | **- / -** | **- / -** | **- / 150.497** | **- / -** | **- / 150.497** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
TNT MIS B07110 is not a new start. This line results from a realignment of funds from BW7110 (current WIN-T Increment 1 funding line) to B07110 in FY18 and out.

FY 2018 Base dollars in the amount of $150.497 million procures WIN-T Inc 1 refresh of obsolete/non-sustainable, End of Life technology to support 62 various size units, Regional Hub Nodes (RHN), and Tactical Network Management System (TNMS)
(a) Technical refresh and modernization are critical to ensure the Army's tactical network maintains its security posture and compliance with new Information Assurance policies. TNT MIS is executing a 7-year tech refresh cycle to counter obsolescence and inability to sustain COTS IT components. Tech Refresh reduces life cycle costs by reducing Size, Weight and Power through collapsing and converging capabilities that previously resided on individual hardware components into virtual servers, and leveraging common COTS solutions across various programs
(b) Supports RHN transport convergence
(c) Supports procurement and fielding of NetOps Database Migration Software NIPR, SIPR and Colorless Enclave. Migration is essential to support the convergence functions of planning and management between WIN-T Inc 1 and Inc 2 units
(d) Support Tactical Public Key Infrastructure (PKI)
(e) Supports Modernized Satellite Communications (SATCOM) components
(f) Support Processing, Exploitation and Dissemination (PED) enhancements to RHN and Expeditionary Signal Battalion (ESB) assemblages essential to execute the PED Continuity of Operations (CONOPS)

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** B07100 / Tactical Network Technology Mod In Svc | **Item Number / Title [DODIC]:** B07110 / Tactical Network Upgrades |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 150.497 | - | 150.497 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 150.497 | - | 150.497 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **150.497** | **-** | **150.497** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| JNN Tech Mod Kits(†) | - | - | - | - | - | - | - | - | - | 506.000 | 14 | 7.084 | - | - | - | 506.000 | 14 | 7.084 |
| CPN Tech Mod Kits(†) | - | - | - | - | - | - | - | - | - | 172.000 | 48 | 8.256 | - | - | - | 172.000 | 48 | 8.256 |
| NetOps Components | - | - | - | - | - | - | - | - | - | - | - | 13.258 | - | - | - | - | - | 13.258 |
| Lab Assets | - | - | - | - | - | - | - | - | - | - | - | 7.499 | - | - | - | - | - | 7.499 |
| RHN Obsolescence | - | - | - | - | - | - | - | - | - | - | - | 6.812 | - | - | - | - | - | 6.812 |
| TNMS | - | - | - | - | - | - | - | - | - | - | - | 2.208 | - | - | - | - | - | 2.208 |
| Tactical PKI | - | - | - | - | - | - | - | - | - | - | - | 6.136 | - | - | - | - | - | 6.136 |
| SATCOM Obsolescence | - | - | - | - | - | - | - | - | - | - | - | 4.687 | - | - | - | - | - | 4.687 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *55.940* | - | - | - | - | - | *55.940* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Database Migration | - | - | - | - | - | - | - | - | - | - | - | 34.617 | - | - | - | - | - | 34.617 |
| RHN Transport Convergence | - | - | - | - | - | - | - | - | - | - | - | 8.389 | - | - | - | - | - | 8.389 |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *43.006* | - | - | - | - | - | *43.006* |
| *Subtotal: Flyaway Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***98.946*** | **-** | **-** | **-** | **-** | **-** | ***98.946*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | - | - | - | 10.942 | - | - | - | - | - | 10.942 |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***10.942*** | **-** | **-** | **-** | **-** | **-** | ***10.942*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73 | P-1 Line Item Number / Title: B07100 / Tactical Network Technology Mod In Svc | Item Number / Title [DODIC]: B07110 / Tactical Network Upgrades |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - Initial Spares and Repair Parts Cost | | | | | | | | | | | | | | | | | | |
| Initial Spares and Repair Parts | - | - | - | - | - | - | - | - | - | - | - | 1.615 | - | - | - | - | - | 1.615 |
| *Subtotal: Support - Initial Spares and Repair Parts Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***1.615*** | **-** | **-** | **-** | **-** | **-** | ***1.615*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Contractor Management | - | - | - | - | - | - | - | - | - | - | - | 6.087 | - | - | - | - | - | 6.087 |
| Government Management | - | - | - | - | - | - | - | - | - | - | - | 10.040 | - | - | - | - | - | 10.040 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***16.127*** | **-** | **-** | **-** | **-** | **-** | ***16.127*** |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | - | - | - | - | - | - | - | - | - | 14.233 | - | - | - | - | - | 14.233 |
| *Subtotal: Support - System Engineering Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***14.233*** | **-** | **-** | **-** | **-** | **-** | ***14.233*** |
| Support - Training Cost | | | | | | | | | | | | | | | | | | |
| Equipment | - | - | - | - | - | - | - | - | - | - | - | 8.634 | - | - | - | - | - | 8.634 |
| *Subtotal: Support - Training Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***8.634*** | **-** | **-** | **-** | **-** | **-** | ***8.634*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **150.497** | **-** | **-** | **-** | **-** | **-** | **150.497** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** B07100 / Tactical Network Technology Mod In Svc | **Item Number / Title [DODIC]:** B07110 / Tactical Network Upgrades |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JNN Tech Mod Kits | | 2018 | JNN Tech Mod Kits / Various | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2018 | Jun 2018 | 14 | 506.000 | N | | |
| CPN Tech Mod Kits | | 2018 | CPN Tech Mod Kits / Various | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2018 | Jun 2018 | 48 | 172.000 | N | | |

**Remarks:**
The items being procured are all COTS.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:** B00009 / Joint Incident Site Communications Capability |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 4 | - | 4 | 5 | 5 | 5 | 5 | - | 24 |
| Gross/Weapon System Cost *($ in Millions)* | 15.784 | 4.062 | 5.749 | 6.065 | - | 6.065 | 7.466 | 7.556 | 7.707 | 7.861 | - | 62.250 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 15.784 | 4.062 | 5.749 | 6.065 | - | 6.065 | 7.466 | 7.556 | 7.707 | 7.861 | - | 62.250 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **15.784** | **4.062** | **5.749** | **6.065** | **-** | **6.065** | **7.466** | **7.556** | **7.707** | **7.861** | **-** | **62.250** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 1,516.250 | - | 1,516.250 | 1,493.200 | 1,511.200 | 1,541.400 | 1,572.200 | - | 2,593.750 |

## Description:

The Joint Incident Site Communications Capability (JISCC) funding line procures the Disaster Incident Response Emergency Communications Terminal (DIRECT) capability. DIRECT provides communication to each of the 50 States and 4 Territories to meet the information exchange requirements of the States National Guard (NG) operational commanders while performing Defense Support of Civil Authorities (DSCA) missions. Leverage Warfighter Information Network-Tactical (WIN-T) Cellular and Commercial Capabilities to provide seamless network connectivity to support first responders and emergency managers.

DIRECT Capabilities consist of:
Commercial Coalition Equipment (CCE): Provides commercial internet access to civilian and multinational partners to reduce Size Weight and Power (SWaP) technology, thus fully addressing the increasingly high demand for accelerated capabilities. Interconnects disparate voice communications networks/devices used by multiple response agencies at an incident site.
Cellular Solution (Commercial Wireless and 4th Generation Long Term Evolution (4G LTE)): Provides immediate cellular and wireless network connectivity to first responders, state authorities, and federal authorities allowing for enhanced Command and Control (C2) and shared situational awareness at an incident site.

**Justification:**
FY 2018 Base Procurement dollars in the amount of $6.055 million supports the procurement of four (4) DIRECT systems. A DIRECT system includes: Commercial Coalition Equipment (CCE), Commercial Wireless and 4th Generation Long Term Evolution (4G LTE) that will provide the National Guard with communications capabilities supporting Homeland Defense (HLD) and Defense Support of Civil Authorities (DSCA) missions.

The Transmission Systems Capability Production Document (CPD) was approved on 30 Jan 2015.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:** BB5777 / JCSE Equipment (USREDCOM) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 149.150 | 6.455 | 5.068 | 5.051 | - | 5.051 | 4.926 | 5.138 | 5.239 | 5.371 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 149.150 | 6.455 | 5.068 | 5.051 | - | 5.051 | 4.926 | 5.138 | 5.239 | 5.371 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **149.150** | **6.455** | **5.068** | **5.051** | **-** | **5.051** | **4.926** | **5.138** | **5.239** | **5.371** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE): JCSE, assigned under Joint Enabling Capabilities Command (JECC), US Transportation Command, is the only joint Department of Defense (DoD) unit specifically formed to provide Command, Control, Communications and Computers (C4) systems support for Joint Chiefs of Staff (JCS) contingency operations worldwide. The JCSE mission is to provide, on short notice, those critical communications required to support Joint Task Force support (JTF) and Joint Special Operations Task Force (JSOTF) headquarters. These assets support the warfighter's ability to deploy rapidly and immediately provide the positive command and control required. This support includes contingency and crisis communications for the Joint Chiefs of Staff, Combatant Commands, Services, Defense agencies, non-Defense agencies, and foreign governments. The modernization program goals include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. Per Defense Planning Guidance (DPG) and Director, Joint Staff Memorandum (DJSM) 0291-14, the Army is mandated to fund 1/3rd fair share of JCSE's validated equipment modernization plan.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 6.455 | 5.068 | 5.051 | - | 5.051 | 4.926 | 5.138 | 5.239 | 5.371 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **6.455** | **5.068** | **5.051** | **-** | **5.051** | **4.926** | **5.138** | **5.239** | **5.371** |

**Justification:**

JCSE: FY2018 base funding in the amount of $5.051 million procures communications equipment based on Strategic Planning Guidance; which includes major upgrades to large and small aperture mobile satellite systems, Everything over Internet Protocol (EoIP), Airborne/En-Route, Forced Entry and terrestrial and single-channel equipment. Currently employed commercial-off-the-shelf (COTS) equipment is approaching the end of its life cycle and requires replacement, along with technology refreshment; to meet the modernization program goals which include meeting emerging real-world operational requirements with improved capabilities, smaller footprint, reduced operations and maintenance costs, and seamless integration with the global information grid. This equipment is a critical part of Command and Control communications packages that provide direct operational support to joint forces and HQ elements deployed to austere locations around the globe. Per the Planning Guidance, the ARMY is mandated to fund one-third of the fair share of JCSE's validated equipment modernization plan. JCSE's Modernization Program is built/restructured based on Combatant Command (CCMD) and Service Components' requirements

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 12: Comm - Joint Communications | **P-1 Line Item Number / Title:**<br>BB5777 / JCSE Equipment (USREDCOM) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

and emerging technologies. Services influence JCSE's spending plan through recommendations in concert with Major Defense Acquisition Program (MDAP) schedules, ensuring that Service dollars meet Joint Service requirements.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303142A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 18 | 25 | - | 18 | - | 18 | 23 | 23 | 17 | 22 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 2,616.429 | 172.306 | 143.805 | 161.383 | - | 161.383 | 125.787 | 135.036 | 117.599 | 141.392 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 2,616.429 | 172.306 | 143.805 | 161.383 | - | 161.383 | 125.787 | 135.036 | 117.599 | 141.392 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **2,616.429** | **172.306** | **143.805** | **161.383** | **-** | **161.383** | **125.787** | **135.036** | **117.599** | **141.392** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 145,357.167 | 6,892.240 | - | 8,965.722 | - | 8,965.722 | 5,469.000 | 5,871.130 | 6,917.588 | 6,426.909 | Continuing | Continuing |

## Description:

The Defense Enterprise Wideband Satellite Communications (SATCOM) Systems (DEWSS) provides Super High Frequency (SHF) wideband and Anti-Jam (AJ) satellite communications supporting critical national strategic and tactical Command, Control, Communications and Intelligence (C3I) requirements. DEWSS is a Joint program supporting all of DoD, not just Army, and has oversight at the CJCS level. The DEWSS/Wideband Global Satelellite (WGS) will be used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications and long-haul connectivity.

The AN/TSC-93E Tactical Satellite Service Life Extension Program (SLEP) provides satellite communications (SATCOM) capability in the SHF (Super High Frequency) range. 93E operates over both commercial and military SHF satellites for Army Expeditionary Signal Battalions (ESBs). 93E, along with the WIN-T program's AN/TSC-156 Phoenix Terminal, is the Army's primary means of extending DISN services (NIPR, SIPR, JWICS, DSN, DRSN, and Secure VTC) to deployed Army forces. 93E SLEP has replaced existing "D" models with "E" models. E model upgrades the 93 from 20 Mbps to 50 Mbps, and extends the service life of the 93 until 2025. 93E configuration is as follows: up-armored, consisting of antenna pallet housing the AS-3036D antenna mounted on an M1152 D1 vehicle towing a M1102 trailer. The M1102 transports two MEP-803A generators, a SN-571 SYNC box, and a 20 gallon fuel cell. The cell will increase fuel capacity over 200%. A second M1152A1 will tow a fifth wheel commercial trailer transporting the AN/TSC-93E 250 shelter. The 93E configuration will also work in a non-up armored mode using the M1097 and the M1113.

The Senior National Leadership Communications (SNLC) program and the required modernization effort exists through a bilateral agreement for a 10-year user equipment modernization. This essential Priority 0 effort supports unique internal requirements that provide critical communications to support continuing relations between the United States President and Russia/Ukraine/Belarus/Kazakhstan leaders. The program includes the Direct Communications Link (DCL), Continuous Communications Link (CCL) and the Government-to-Government Communications Link (GGCL). Communications are for diplomatic peacekeeping, arms control and treaty verification purposes.

The Modernization of Enterprise Terminals (MET) program is a complete modernization of fixed X-Band enterprise satellite communications terminals. The MET family of terminal equipment will increase the capacity of existing satellite communications facilities by adding military Ka-Band capability, enabling the Army to maximize its use of the Wideband Global SATCOM (WGS) constellation. The MET's modular design and incorporation of Commercial-Off-The-Shelf (COTS) systems will improve the sustainability of Army enterprise satellite communications systems, reduce life cycle costs, and extend the life of the enterprise terminal family beyond 2025.

The Digital Communications Satellite Subsystem (DCSS) is an array of baseband equipment that is integral to the Defense Enterprise Wideband SATCOM System (DEWSS). DCSS is the interconnection between the Global Information Grid (GIG) and the DEWSS satellite earth terminal equipment, providing users with access to the Wideband Global SATCOM (WGS) system, the Defense Satellite

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303142A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

Communications System, and other military and commercially available satellite constellations. Provides deployed Warfighters with global connectivity to military command and control systems, reachback to the sustaining base, and access to enterprise information resources and the Defense Information Systems Network. Interfaces with the national strategic communications infrastructure to support Presidential and senior DoD leadership communications.

The Enterprise Wideband Satellite Payload Control System provides for the management of Defense Satellite Communications System (DSCS) and Wideband Global SATCOM (WGS) earth terminal and satellite resources, which are required for rapid and efficient reaction to operational needs in support of the Warfighter. State-of-the-art strategic satellite payload network control and planning systems for use with DSCS, WGS, and commercial satellite systems are procured and installed at Wideband Satellite Operation Centers (WSOC) worldwide. Payload control functions control and configure the satellites. Network control functions manage communications between operators and processors, generate and drive display formats, and maintain and provide rapid access to the network databases. The Army's effort to digitize forces has created a tremendous increase in demand for bandwidth. Subsystems ensure efficient use of satellite power and spectrum, overcoming existing and projected bandwidth constraints, and allow U.S. forces to achieve information superiority on the battlefield. Provide reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 25 | - | 18 | - | 18 | 23 | 23 | 17 | 22 |
| | Total Obligation Authority | 172.306 | 143.805 | 161.383 | - | 161.383 | 125.787 | 135.036 | 117.599 | 141.392 |
| **Total: Secondary Distribution** | **Quantity** | **25** | **-** | **18** | **-** | **18** | **23** | **23** | **17** | **22** |
| | **Total Obligation Authority** | **172.306** | **143.805** | **161.383** | **-** | **161.383** | **125.787** | **135.036** | **117.599** | **141.392** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303142A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B08701 / GMF Enhancement | | | | - / 75.801 | - / 2.330 | - / 1.440 | - / 1.205 | - / - | - / 1.205 |
| P-5 | B08900 / Special Communications Links Program | | | | - / 20.301 | - / 6.806 | - / 6.363 | - / 1.355 | - / - | - / 1.355 |
| P-5 | BB8416 / Enterprise Wideband Satellite Terminal - (Mod) | P-5a, P-21 | | | 3 / 748.383 | 7 / 56.890 | - / 54.798 | 5 / 50.958 | - / - | 5 / 50.958 |
| P-5 | BB8501 / Enterprise Wideband Satellite Terminal Digital EQ | P-5a | | | 6 / 818.650 | 7 / 38.090 | - / 25.520 | 5 / 46.806 | - / - | 5 / 46.806 |
| P-5 | BB8509 / Enterprise Wideband Sat Payload Control System | P-5a | | | 9 / 953.294 | 11 / 68.190 | - / 55.684 | 8 / 61.059 | - / - | 8 / 61.059 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **18 / 2,616.429** | **25 / 172.306** | **- / 143.805** | **18 / 161.383** | **- / -** | **18 / 161.383** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $161.383 million support the following programs:

FY2018 Base dollars in the amount of $1.205 million procures and integrates SHF Ka band capability with currently existing SHF X band capability, and conducts fielding and new equipment training of the AN/TSC-93E in support of the Active, Reserve, and National Guard components and supports program management organic support.

FY 2018 Base procurement dollars in the amount of $1.355 million supports modernization of the Direct Communications Link (DCL) from serial based circuits to an Internet Protocol architecture. Funding provides the procurement of hardware and software, installation, and training support.

FY 2018 Base procurement dollars in the amount of $50.958 million procures Modernization of Enterprise Terminals (MET) systems, and provides the required engineering, integration, and installation support for terminal fielding.

FY 2018 Base procurement dollars in the amount $46.806 million procures satellite terminal and baseband equipment and associated management systems in support of NETCOM's relocations of the satellite earth stations at Landstuhl, Germany and Camp Roberts, California. Provides the minimum essential baseband and telecommunications equipment to support the modernization of DCSS components and their integration into the DEWSS, including modernization of baseband infrastructure to enable net-centric Internet Protocol communications at satellite earth terminals. Supports Chairman, Joint Chiefs of Staff (CJCS) validated Combatant Commanders/Service long haul communication requirements and provides baseband equipment support for the Modernization of Enterprise Terminals (MET) program.

FY 2018 Base procurement dollars in the amount of $61.059 million supports the procurement of hardware/software, engineering services, Integrated Logistics Support (ILS) and Information Assurance (IA) for the Enterprise Wideband Satellite Payload Control System, which acquires and installs state-of-the-art strategic and tactical satellite payload control, spectrum monitoring, transmission control and network planning systems for wideband satellite constellations. Without Wideband Control systems to plan mission communications through WGS and DSCS programs, WIN-T would not function as designed.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), these items are necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** B08701 / GMF Enhancement |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 75.801 | 2.330 | 1.440 | 1.205 | - | 1.205 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 75.801 | 2.330 | 1.440 | 1.205 | - | 1.205 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **75.801** | **2.330** | **1.440** | **1.205** | **-** | **1.205** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | 0.100 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | **-** | **-** | **-** | ***0.100*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Initial Spares and Repair Parts Cost | | | | | | | | | | | | | | | | | | |
| Initial Spares and Repair Parts | - | - | - | - | - | 1.000 | - | - | 0.550 | - | - | 0.255 | - | - | - | - | - | 0.255 |
| *Subtotal: Support - Initial Spares and Repair Parts Cost* | **-** | **-** | **-** | **-** | **-** | ***1.000*** | **-** | **-** | ***0.550*** | **-** | **-** | ***0.255*** | **-** | **-** | **-** | **-** | **-** | ***0.255*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 75.801 | - | - | 0.055 | - | - | 0.035 | - | - | 0.050 | - | - | - | - | - | 0.050 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***75.801*** | **-** | **-** | ***0.055*** | **-** | **-** | ***0.035*** | **-** | **-** | ***0.050*** | **-** | **-** | **-** | **-** | **-** | ***0.050*** |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | - | - | - | 0.395 | - | - | 0.400 | - | - | 0.400 | - | - | - | - | - | 0.400 |
| *Subtotal: Support - System Engineering Cost* | **-** | **-** | **-** | **-** | **-** | ***0.395*** | **-** | **-** | ***0.400*** | **-** | **-** | ***0.400*** | **-** | **-** | **-** | **-** | **-** | ***0.400*** |
| Support - System Technical Support (STS) Cost | | | | | | | | | | | | | | | | | | |
| System Technical Support (STS) | - | - | - | - | - | 0.780 | - | - | 0.455 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| *Subtotal: Support - System Technical Support (STS) Cost* | **-** | **-** | **-** | **-** | **-** | ***0.780*** | **-** | **-** | ***0.455*** | **-** | **-** | ***0.500*** | **-** | **-** | **-** | **-** | **-** | ***0.500*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** B08701 / GMF Enhancement |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| **Gross/Weapon System Cost** | - | - | 75.801 | - | - | 2.330 | - | - | 1.440 | - | - | 1.205 | - | - | - | - | - | 1.205 |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 2.330 | 1.440 | 1.205 | - | 1.205 |
| **Total: Secondary Distribution** | **Quantity** | - | - | - | - | - |
| | **Total Obligation Authority** | **2.330** | **1.440** | **1.205** | - | **1.205** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** B08900 / Special Communications Links Program |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 20.301 | 6.806 | 6.363 | 1.355 | - | 1.355 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 20.301 | 6.806 | 6.363 | 1.355 | - | 1.355 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **20.301** | **6.806** | **6.363** | **1.355** | **-** | **1.355** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 20.301 | - | - | 6.806 | - | - | 6.363 | - | - | 1.355 | - | - | - | - | - | 1.355 |
| *Subtotal: Support - Program Management Cost* | ***-*** | ***-*** | ***20.301*** | ***-*** | ***-*** | ***6.806*** | ***-*** | ***-*** | ***6.363*** | ***-*** | ***-*** | ***1.355*** | ***-*** | ***-*** | ***-*** | ***-*** | ***-*** | ***1.355*** |
| **Gross/Weapon System Cost** | **-** | **-** | **20.301** | **-** | **-** | **6.806** | **-** | **-** | **6.363** | **-** | **-** | **1.355** | **-** | **-** | **-** | **-** | **-** | **1.355** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 6.806 | 6.363 | 1.355 | - | 1.355 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **6.806** | **6.363** | **1.355** | **-** | **1.355** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8416 / Enterprise Wideband Satellite Terminal - (Mod) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 3 | 7 | - | 5 | - | 5 |
| Gross/Weapon System Cost *($ in Millions)* | 748.383 | 56.890 | 54.798 | 50.958 | - | 50.958 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 748.383 | 56.890 | 54.798 | 50.958 | - | 50.958 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **748.383** | **56.890** | **54.798** | **50.958** | **-** | **50.958** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 249,461.000 | 8,127.143 | - | 10,191.600 | - | 10,191.600 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| MET Hardware(†) | 39,901.786 | 14 | 558.625 | 3,521.714 | 7 | 24.652 | 2,810.222 | 9 | 25.292 | 3,725.800 | 5 | 18.629 | - | - | - | 3,725.800 | 5 | 18.629 |
| IP Test Sets | - | - | 0.800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MET Depot Support | - | - | - | - | - | - | - | - | - | - | - | 6.734 | - | - | - | - | - | 6.734 |
| MET PDSS | - | - | - | - | - | - | - | - | - | - | - | 2.438 | - | - | - | - | - | 2.438 |
| *Subtotal: Recurring Cost* | - | - | *559.425* | - | - | *24.652* | - | - | *25.292* | - | - | *27.801* | - | - | - | - | - | *27.801* |
| ***Subtotal: Flyaway Cost*** | **-** | **-** | ***559.425*** | **-** | **-** | ***24.652*** | **-** | **-** | ***25.292*** | **-** | **-** | ***27.801*** | **-** | **-** | **-** | **-** | **-** | ***27.801*** |
| Support - Engineering Change Proposals Cost | | | | | | | | | | | | | | | | | | |
| Engineering Change Proposals | - | - | - | - | - | - | - | - | 7.000 | - | - | - | - | - | - | - | - | - |
| ***Subtotal: Support - Engineering Change Proposals Cost*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***7.000*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 28.156 | - | - | 9.363 | - | - | 12.005 | - | - | 11.969 | - | - | - | - | - | 11.969 |
| ***Subtotal: Support - Fielding Cost*** | **-** | **-** | ***28.156*** | **-** | **-** | ***9.363*** | **-** | **-** | ***12.005*** | **-** | **-** | ***11.969*** | **-** | **-** | **-** | **-** | **-** | ***11.969*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 135.535 | - | - | 10.073 | - | - | 4.284 | - | - | 5.966 | - | - | - | - | - | 5.966 |
| ***Subtotal: Support - Program Management Cost*** | **-** | **-** | ***135.535*** | **-** | **-** | ***10.073*** | **-** | **-** | ***4.284*** | **-** | **-** | ***5.966*** | **-** | **-** | **-** | **-** | **-** | ***5.966*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8416 / Enterprise Wideband Satellite Terminal - (Mod) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | 25.267 | - | - | 12.802 | - | - | 6.217 | - | - | 5.222 | - | - | - | - | - | 5.222 |
| *Subtotal: Support - System Engineering Cost* | **-** | **-** | ***25.267*** | **-** | **-** | ***12.802*** | **-** | **-** | ***6.217*** | **-** | **-** | ***5.222*** | **-** | **-** | **-** | **-** | **-** | ***5.222*** |
| **Gross/Weapon System Cost** | **249,461.000** | **3** | **748.383** | **8,127.143** | **7** | **56.890** | **-** | **-** | **54.798** | **10,191.600** | **5** | **50.958** | **-** | **-** | **-** | **10,191.600** | **5** | **50.958** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 7 | - | 5 | - | 5 |
| | Total Obligation Authority | 56.890 | 54.798 | 50.958 | - | 50.958 |
| **Total: Secondary Distribution** | **Quantity** | **7** | **-** | **5** | **-** | **5** |
| | **Total Obligation Authority** | **56.890** | **54.798** | **50.958** | **-** | **50.958** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8416 / Enterprise Wideband Satellite Terminal - (Mod) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MET Hardware(†) | | 2015 | Harris / Melbourne Florida | SS / FFP | ACC-RI | May 2015 | Jun 2016 | 3 | 2,660.333 | | | |
| MET Hardware(†) | | 2016 | Harris / Melbourne Florida | SS / FFP | ACC-RI | May 2016 | Jun 2017 | 7 | 3,521.714 | | | |
| MET Hardware(†) | | 2017 | Harris / Melbourne Florida | SS / FFP | ACC-RI | May 2017 | Jun 2018 | 9 | 2,810.220 | | | |
| MET Hardware(†) | | 2018 | Harris / Melbourne Florida | SS / FFP | ACC-RI | May 2018 | Jun 2019 | 5 | 3,725.800 | | | |

(†) indicates the presence of a P-21

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8416 / Enterprise Wideband Satellite Terminal - (Mod) |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2015 | | | | | | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2015 | | | | | | | | | | | | Calendar Year 2016 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2014 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| MET Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 3 | 0 | 3 | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | | | | 0 |
| | 1 | 2016 | ARMY | 7 | 0 | 7 | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | 7 |
| | 1 | 2017 | ARMY | 9 | 0 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| | 1 | 2018 | ARMY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8416 / Enterprise Wideband Satellite Terminal - (Mod) |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| MET Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | ARMY | 7 | 0 | 7 | - | - | - | - | - | - | - | - | 7 | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 9 | 0 | 9 | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | | | | 0 |
| | 1 | 2018 | ARMY | 5 | 0 | 5 | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | 5 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| Exhibit P-21, Production Schedule: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8416 / Enterprise Wideband Satellite Terminal - (Mod) |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| MET Hardware | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | ARMY | 7 | 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 9 | 9 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 5 | 0 | 5 | - | - | - | - | - | - | - | - | 5 | | | | | | | | | | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| Exhibit P-21, Production Schedule: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8416 / Enterprise Wideband Satellite Terminal - (Mod) |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Harris - Melbourne Florida | 1 | 6 | 12 | 0 | 0 | 0 | 0 | 0 | 7 | 13 | 20 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8501 / Enterprise Wideband Satellite Terminal Digital EQ |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 6 | 7 | - | 5 | - | 5 |
| Gross/Weapon System Cost *($ in Millions)* | 818.650 | 38.090 | 25.520 | 46.806 | - | 46.806 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 818.650 | 38.090 | 25.520 | 46.806 | - | 46.806 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **818.650** | **38.090** | **25.520** | **46.806** | **-** | **46.806** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 136,441.667 | 5,441.429 | - | 9,361.200 | - | 9,361.200 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Integrated Control Console | - | - | - | - | - | 1.100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Encore II SMS Existing Tech Assist | - | - | - | - | - | 1.346 | - | - | - | - | - | 1.600 | - | - | - | - | - | 1.600 |
| MIDAS(†) | - | - | 242.731 | - | - | 0.200 | - | - | 0.200 | 200.000 | 4 | 0.800 | - | - | - | 200.000 | 4 | 0.800 |
| Baseband and Modem Modernization(†) | 4,615.000 | 1 | 4.615 | 1,200.000 | 1 | 1.200 | 1,200.000 | 1 | 1.200 | 26,073.000 | 1 | 26.073 | - | - | - | 26,073.000 | 1 | 26.073 |
| Camp Robert Sets/ Relocate(†) | - | - | 4.400 | 8,566.000 | 1 | 8.566 | 5,687.000 | 1 | 5.687 | - | - | - | - | - | - | - | - | - |
| Landstuhl Sets/ Relocate(†) | - | - | 4.400 | 8,566.000 | 1 | 8.566 | 5,687.000 | 1 | 5.687 | - | - | - | - | - | - | - | - | - |
| Power Distribution Rack Modernization(†) | 175.333 | 9 | 1.578 | 100.000 | 5 | 0.500 | 166.667 | 3 | 0.500 | - | - | - | - | - | - | - | - | - |
| Serial IP Test Set Modernization | - | - | - | - | - | 1.265 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *257.724* | - | - | *22.743* | - | - | *13.274* | - | - | *28.473* | - | - | - | - | - | *28.473* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***257.724*** | **-** | **-** | ***22.743*** | **-** | **-** | ***13.274*** | **-** | **-** | ***28.473*** | **-** | **-** | **-** | **-** | **-** | ***28.473*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | - | - | - | 6.490 | - | - | - | - | - | 6.490 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8501 / Enterprise Wideband Satellite Terminal Digital EQ |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Support - Fielding Cost* | - | - | - | - | - | - | - | - | - | - | - | ***6.490*** | - | - | - | - | - | ***6.490*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 375.118 | - | - | 10.231 | - | - | 8.164 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| *Subtotal: Support - Program Management Cost* | - | - | ***375.118*** | - | - | ***10.231*** | - | - | ***8.164*** | - | - | ***2.000*** | - | - | - | - | - | ***2.000*** |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | 185.808 | - | - | 5.116 | - | - | 4.082 | - | - | 9.843 | - | - | - | - | - | 9.843 |
| *Subtotal: Support - System Engineering Cost* | - | - | ***185.808*** | - | - | ***5.116*** | - | - | ***4.082*** | - | - | ***9.843*** | - | - | - | - | - | ***9.843*** |
| **Gross/Weapon System Cost** | **136,441.667** | **6** | **818.650** | **5,441.429** | **7** | **38.090** | - | - | **25.520** | **9,361.200** | **5** | **46.806** | - | - | - | **9,361.200** | **5** | **46.806** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 7 | - | 5 | - | 5 |
| | Total Obligation Authority | 38.090 | 25.520 | 46.806 | - | 46.806 |
| **Total: Secondary Distribution** | **Quantity** | **7** | **-** | **5** | **-** | **5** |
| | **Total Obligation Authority** | **38.090** | **25.520** | **46.806** | **-** | **46.806** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18 | P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems | Item Number / Title [DODIC]: BB8501 / Enterprise Wideband Satellite Terminal Digital EQ |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MIDAS | | 2015 | Raytheon / Marlborough Massachusetts | SS / FFP | APG, MD | Mar 2015 | Apr 2015 | 0 | 200.000 | | | |
| MIDAS | | 2016 | TBD / TBD | C / TBD | TBD | Mar 2016 | Apr 2016 | 0 | 0.000 | | | |
| MIDAS | | 2017 | TBD / TBD | C / TBD | TBD | Mar 2017 | Apr 2017 | 0 | 0.000 | | | |
| MIDAS | | 2018 | TBD / TBD | C / TBD | TBD | Mar 2018 | Aug 2018 | 4 | 200.000 | | | |
| Baseband and Modem Modernization | | 2015 | TYAD / Tobyhanna, PA | SS / FFP | TYAD | May 2015 | Jun 2015 | 1 | 1,200.000 | | | |
| Baseband and Modem Modernization | | 2016 | TBD / TBD | C / TBD | TBD | May 2016 | Jun 2016 | 1 | 1,200.000 | | | |
| Baseband and Modem Modernization | | 2017 | TBD / TBD | C / TBD | TBD | May 2017 | Jun 2017 | 1 | 1,200.000 | | | |
| Baseband and Modem Modernization | | 2018 | TBD / TBD | C / TBD | TBD | May 2018 | Jun 2018 | 1 | 26,073.000 | | | |
| Camp Robert Sets/Relocate | | 2015 | TYAD / Tobyhanna, PA | SS / FFP | TYAD | May 2015 | Jun 2015 | 0 | 9,978.000 | | | |
| Camp Robert Sets/Relocate | | 2016 | TBD / TBD | C / TBD | TBD | May 2016 | Jun 2016 | 1 | 8,566.000 | | | |
| Camp Robert Sets/Relocate | | 2017 | TBD / TBD | C / TBD | TBD | May 2017 | Jun 2017 | 1 | 5,687.000 | | | |
| Landstuhl Sets/Relocate | | 2015 | TYAD / Tobyhanna, PA | SS / FFP | TYAD | May 2015 | Jun 2015 | 0 | 9,978.000 | | | |
| Landstuhl Sets/Relocate | | 2016 | TYAD / Tobyhanna, PA | C / TBD | TBD | May 2016 | Jun 2016 | 1 | 8,566.000 | | | |
| Landstuhl Sets/Relocate | | 2017 | TYAD / Tobyhanna, PA | C / TBD | TBD | May 2017 | Jun 2017 | 1 | 5,687.000 | | | |
| Power Distribution Rack Modernization | | 2015 | TYAD / Tobyhanna, PA | SS / FFP | TYAD | May 2015 | Jun 2015 | 3 | 166.334 | | | |
| Power Distribution Rack Modernization | | 2016 | TBD / TBD | C / TBD | TBD | May 2016 | Jun 2016 | 5 | 100.000 | | | |
| Power Distribution Rack Modernization | | 2017 | TBD / TBD | C / TBD | TBD | May 2017 | Jun 2017 | 3 | 166.670 | | | |

**Remarks:**
P-21 is not provided, as these lines purchase multiple, cross-system components.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8509 / Enterprise Wideband Sat Payload Control System |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 9 | 11 | - | 8 | - | 8 |
| Gross/Weapon System Cost *($ in Millions)* | 953.294 | 68.190 | 55.684 | 61.059 | - | 61.059 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 953.294 | 68.190 | 55.684 | 61.059 | - | 61.059 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **953.294** | **68.190** | **55.684** | **61.059** | **-** | **61.059** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 105,921.556 | 6,199.091 | - | 7,632.375 | - | 7,632.375 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Control Satellite Lab (CSL) | - | - | 1.500 | - | - | 0.500 | - | - | 0.500 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| Software | - | - | 55.663 | - | - | 0.800 | - | - | 0.900 | - | - | 0.900 | - | - | - | - | - | 0.900 |
| WSTARS/WMII(†) | - | - | 32.400 | 9,820.000 | 1 | 9.820 | 9,284.000 | 1 | 9.284 | 4,353.000 | 1 | 4.353 | - | - | - | 4,353.000 | 1 | 4.353 |
| Replace Radio Frequency System (RRFIS)(†) | - | - | 840.329 | 1,014.000 | 1 | 1.014 | 1,014.000 | 1 | 1.014 | 165.000 | 1 | 0.165 | - | - | - | 165.000 | 1 | 0.165 |
| WRMS(†) | 14,352.000 | 1 | 14.352 | 9,500.000 | 1 | 9.500 | 9,334.000 | 1 | 9.334 | 2,460.000 | 1 | 2.460 | - | - | - | 2,460.000 | 1 | 2.460 |
| Common Network Planning System (CNPS)(†) | - | - | - | 9,778.000 | 1 | 9.778 | 9,074.000 | 1 | 9.074 | 3,926.000 | 1 | 3.926 | - | - | - | 3,926.000 | 1 | 3.926 |
| DIMS(†) | - | - | - | 11,175.000 | 1 | 11.175 | - | - | - | - | - | - | - | - | - | - | - | - |
| GSCCE(†) | - | - | - | 10,801.000 | 1 | 10.801 | 10,387.000 | 1 | 10.387 | 6,189.000 | 1 | 6.189 | - | - | - | 6,189.000 | 1 | 6.189 |
| WSOMS(†) | - | - | - | 7,422.000 | 1 | 7.422 | 7,400.000 | 1 | 7.400 | 8,066.000 | 1 | 8.066 | - | - | - | 8,066.000 | 1 | 8.066 |
| Joint Mngmt. & Ops. System (JMOS)(†) | 1,033.333 | 3 | 3.100 | 1,200.000 | 1 | 1.200 | 1,200.000 | 1 | 1.200 | - | - | 1.142 | - | - | - | - | - | 1.142 |
| Replacemt Patch & Test Facility (RPTF)(†) | - | - | - | - | - | - | 533.000 | 1 | 0.533 | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** BB8500 / Defense Enterprise Wideband Satcom Systems | **Item Number / Title [DODIC]:** BB8509 / Enterprise Wideband Sat Payload Control System |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Remote Monitor Control Equip. (RMCE) v.2(†) | - | - | - | - | - | - | 4,058.000 | 1 | 4.058 | - | - | 3.733 | - | - | - | - | - | 3.733 |
| Wideband Trainer & Certification System(†) | - | - | - | 3,280.000 | 1 | 3.280 | - | - | - | 5,457.000 | 1 | 5.457 | - | - | - | 5,457.000 | 1 | 5.457 |
| RFMOW(†) | - | - | 0.850 | 750.000 | 2 | 1.500 | 250.000 | 2 | 0.500 | - | - | 2.768 | - | - | - | - | - | 2.768 |
| PCMS(†) | - | - | - | - | - | - | - | - | - | 19,900.000 | 1 | 19.900 | - | - | - | 19,900.000 | 1 | 19.900 |
| *Subtotal: Recurring Cost* | - | - | *948.194* | - | - | *66.790* | - | - | *54.184* | - | - | *59.559* | - | - | - | - | - | *59.559* |
| ***Subtotal: Flyaway Cost*** | **-** | **-** | ***948.194*** | **-** | **-** | ***66.790*** | **-** | **-** | ***54.184*** | **-** | **-** | ***59.559*** | **-** | **-** | **-** | **-** | **-** | ***59.559*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 5.100 | - | - | 1.400 | - | - | 1.500 | - | - | 1.500 | - | - | - | - | - | 1.500 |
| ***Subtotal: Support - Program Management Cost*** | **-** | **-** | ***5.100*** | **-** | **-** | ***1.400*** | **-** | **-** | ***1.500*** | **-** | **-** | ***1.500*** | **-** | **-** | **-** | **-** | **-** | ***1.500*** |
| **Gross/Weapon System Cost** | **105,921.556** | **9** | **953.294** | **6,199.091** | **11** | **68.190** | **-** | **-** | **55.684** | **7,632.375** | **8** | **61.059** | **-** | **-** | **-** | **7,632.375** | **8** | **61.059** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 11 | - | 8 | - | 8 |
| | Total Obligation Authority | 68.190 | 55.684 | 61.059 | - | 61.059 |
| **Total: Secondary Distribution** | **Quantity** | **11** | **-** | **8** | **-** | **8** |
| | **Total Obligation Authority** | **68.190** | **55.684** | **61.059** | **-** | **61.059** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18 | P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems | Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSTARS/WMII | | 2015 | RLM / Spring Lake, NC | SS / FFP | ACC-RI | Apr 2015 | May 2015 | 0 | 0.000 | | | |
| WSTARS/WMII | | 2016 | RLM / Spring Lake, NC | SS / FFP | ACC-RI | Apr 2016 | May 2016 | 1 | 9,820.000 | | | |
| WSTARS/WMII | | 2017 | TBD / TBD | C / TBD | TBD | Apr 2017 | May 2017 | 1 | 9,284.000 | | | |
| WSTARS/WMII | | 2018 | TBD / TBD | C / TBD | TBD | Apr 2018 | May 2018 | 1 | 4,353.000 | | | |
| Replace Radio Frequency System (RRFIS) | | 2015 | Harris / Palm Bay, Fl | SS / FFP | ACC-RI | Apr 2015 | May 2015 | 0 | 0.000 | | | |
| Replace Radio Frequency System (RRFIS) | | 2016 | Harris / Palm Bay, Fl | SS / FFP | ACC-RI | Apr 2016 | May 2016 | 1 | 1,014.000 | | | |
| Replace Radio Frequency System (RRFIS) | | 2017 | TBD / TBD | C / TBD | TBD | Apr 2017 | May 2017 | 1 | 1,014.000 | | | |
| Replace Radio Frequency System (RRFIS) | | 2018 | TBD / TBD | C / TBD | TBD | Apr 2018 | May 2018 | 1 | 165.000 | | | |
| WRMS | | 2015 | Northrop Grumman / Orlando, FL | SS / FFP | ACC-RI | Apr 2015 | Jun 2015 | 1 | 9,500.000 | | | |
| WRMS | | 2016 | Northrop Grumman / Orlando, FL | SS / FFP | ACC-RI | Apr 2016 | Jun 2016 | 1 | 9,500.000 | | | |
| WRMS | | 2017 | TBD / TBD | C / TBD | TBD | Apr 2017 | Jun 2017 | 1 | 9,334.000 | | | |
| WRMS | | 2018 | TBD / TBD | C / TBD | TBD | Apr 2018 | Jun 2018 | 1 | 2,460.000 | | | |
| Common Network Planning System (CNPS) | | 2015 | Northrop Grumman / Herndon, VA | SS / FFP | DITCO | Dec 2014 | Jan 2015 | 0 | 9,700.000 | | | |
| Common Network Planning System (CNPS) | | 2016 | Northrop Grumman / Herndon, VA | SS / FFP | DITCO | Dec 2015 | Jan 2016 | 1 | 9,778.000 | | | |
| Common Network Planning System (CNPS) | | 2017 | TBD / TBD | C / TBD | TBD | Dec 2016 | Jan 2017 | 1 | 9,074.000 | | | |
| Common Network Planning System (CNPS) | | 2018 | TBD / TBD | C / TBD | TBD | Dec 2018 | Jan 2019 | 1 | 3,926.000 | | | |
| DIMS | | 2015 | AASKI / Aberdeen, MD | SS / FFP | APG, MD | Mar 2015 | Apr 2015 | 0 | 3,175.000 | | | |
| DIMS | | 2016 | AASKI / Aberdeen, MD | C / TBD | APG, MD | Mar 2016 | Apr 2016 | 1 | 11,175.000 | | | |
| DIMS | | 2017 | TBD / TBD | C / TBD | TBD | Mar 2017 | Apr 2017 | 0 | 0.000 | | | |
| DIMS | | 2018 | TBD / TBD | C / TBD | TBD | Mar 2018 | Apr 2018 | 0 | 0.000 | | | |
| GSCCE | | 2015 | The Boeing Company / Los Angeles, CA | SS / FFP | ACC-RI | Apr 2015 | May 2015 | 0 | 9,537.000 | | | |
| GSCCE | | 2016 | The Boeing Company / Los Angeles, CA | SS / FFP | ACC-RI | Apr 2016 | May 2016 | 1 | 10,801.000 | | | |
| GSCCE | | 2017 | TBD / TBD | C / TBD | TBD | Apr 2017 | May 2017 | 1 | 10,387.000 | | | |
| GSCCE | | 2018 | TBD / TBD | C / TBD | TBD | Apr 2018 | May 2018 | 1 | 6,189.000 | | | |
| WSOMS | | 2015 | Exelis / Colorado Springs, CO | SS / FFP | Huntsville, AL | Mar 2015 | Apr 2015 | 0 | 7,500.000 | | | |
| WSOMS | | 2016 | Exelis / Colorado Springs, CO | SS / FFP | Huntsville, AL | Mar 2016 | Apr 2016 | 1 | 7,422.000 | | | |

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 18 | P-1 Line Item Number / Title: BB8500 / Defense Enterprise Wideband Satcom Systems | Item Number / Title [DODIC]: BB8509 / Enterprise Wideband Sat Payload Control System |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSOMS | | 2017 | TBD / TBD | C / TBD | TBD | Mar 2017 | Apr 2017 | 1 | 7,400.000 | | | |
| WSOMS | | 2018 | TBD / TBD | C / TBD | TBD | Mar 2018 | Apr 2018 | 1 | 8,066.000 | | | |
| Joint Mngmt. & Ops. System (JMOS) | | 2015 | AASKI / Aberdeen, MD | SS / FFP | APG, MD | Nov 2014 | Dec 2014 | 1 | 1,200.000 | | | |
| Joint Mngmt. & Ops. System (JMOS) | | 2016 | AASKI / Aberdeen, MD | SS / FFP | APG, MD | Oct 2015 | Dec 2015 | 1 | 1,200.000 | | | |
| Joint Mngmt. & Ops. System (JMOS) | | 2017 | TBD / TBD | C / TBD | TBD | Oct 2016 | Dec 2016 | 1 | 1,200.000 | | | |
| Joint Mngmt. & Ops. System (JMOS) | | 2018 | TBD / TBD | C / TBD | TBD | Oct 2017 | Dec 2017 | 0 | 0.000 | | | |
| Replacemt Patch & Test Facility (RPTF) | | 2015 | RLM / Spring Lake, NC | SS / FFP | ACC-RI | Mar 2015 | Apr 2015 | 0 | 0.000 | | | |
| Replacemt Patch & Test Facility (RPTF) | | 2016 | RLM / Spring Lake, NC | SS / FFP | TBD | Mar 2016 | Apr 2016 | 0 | 0.000 | | | |
| Replacemt Patch & Test Facility (RPTF) | | 2017 | TBD / TBD | C / TBD | TBD | Mar 2017 | Apr 2017 | 1 | 533.000 | | | |
| Remote Monitor Control Equip. (RMCE) v.2 | | 2015 | JHU/APL / Laurel, MD | SS / FFP | ACC-RI | Sep 2015 | Sep 2015 | 0 | 0.000 | | | |
| Remote Monitor Control Equip. (RMCE) v.2 | | 2016 | JHU/APL / Laurel, MD | SS / FFP | TBD | Sep 2016 | Oct 2016 | 0 | 0.000 | | | |
| Remote Monitor Control Equip. (RMCE) v.2 | | 2017 | TBD / TBD | C / TBD | TBD | Sep 2017 | Oct 2017 | 1 | 4,058.000 | | | |
| Remote Monitor Control Equip. (RMCE) v.2 | | 2018 | TBD / TBD | C / TBD | TBD | Sep 2018 | Oct 2018 | 0 | 0.000 | | | |
| Wideband Trainer & Certification System | | 2016 | PEO STRI / Orlando, FL | C / FFP | PEO STRI | Dec 2015 | Dec 2016 | 1 | 3,280.000 | | | |
| Wideband Trainer & Certification System | | 2018 | TBD / TBD | C / TBD | TBD | Dec 2017 | Dec 2018 | 1 | 5,457.000 | | | |
| RFMOW | | 2016 | JHU/APL / Laurel, MD | SS / FFP | APG, MD | Apr 2016 | May 2016 | 2 | 750.000 | | | |
| RFMOW | | 2017 | TBD / TBD | C / TBD | TBD | Apr 2017 | May 2017 | 2 | 250.000 | | | |
| RFMOW | | 2018 | TBD / TBD | C / TBD | TBD | Apr 2018 | May 2018 | 0 | 0.000 | | | |
| PCMS | | 2018 | TBD / TBD | C / TBD | TBD | Apr 2018 | May 2018 | 1 | 19,900.000 | | | |

**Remarks:**
P-21 is not provided, as these lines purchase multiple, cross-system components.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303142A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 10 | 46 | 26 | 107 | - | 107 | 117 | 150 | 134 | 132 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 12.666 | 47.305 | 36.580 | 62.600 | - | 62.600 | 62.988 | 78.444 | 79.022 | 80.606 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 12.666 | 47.305 | 36.580 | 62.600 | - | 62.600 | 62.988 | 78.444 | 79.022 | 80.606 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **12.666** | **47.305** | **36.580** | **62.600** | **-** | **62.600** | **62.988** | **78.444** | **79.022** | **80.606** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 1,266.600 | 1,028.370 | 1,406.923 | 585.047 | - | 585.047 | 538.359 | 522.960 | 589.716 | 610.652 | Continuing | Continuing |

## Description:

Transportable Tactical Command Communications (T2C2) extends the Warfighter Information Network Tactical (WIN-T) network to small company and team sized early entry units. The T2C2 system is based on combat proven capabilities and provides robust voice and data communication capabilities. The T2C2 systems will also integrate users into the higher capacity WIN-T network and extend that network to the tactical edge; T2C2 also enables warfighters in select small Command Posts (CP) (typically Company level) and select Army teams to send and receive time sensitive Situational Awareness (SA), Intelligence, and Mission Command (MC) information while At-the-Halt (ATH) in support of all Joint determined and defined operational phases. These phases span from the initial Shaping Phase (designed to dissuade or deter adversaries and assure mission friends), Deterrence, Initiative Seizure and Domination culminating with post maneuver Stabilization and Enabling of Civil Authorities supporting a legitimate civil governance in safe and secure environment.

The approved Army Procurement Objective (APO) for Transportable Tactical Command Communications (T2C2) is 424 Lite systems, 390 Heavy systems.

The T2C2 Capability Production Document (CPD) was validated in November 2013.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 46 | 26 | 107 | - | 107 | 98 | 113 | 49 | - |
| | Total Obligation Authority | 47.305 | 36.580 | 62.600 | - | 62.600 | 52.759 | 59.094 | 28.896 | - |
| ANG | Quantity | - | - | - | - | - | 15 | 35 | 72 | 122 |
| | Total Obligation Authority | - | - | - | - | - | 8.076 | 18.304 | 42.460 | 74.499 |
| AR | Quantity | - | - | - | - | - | 4 | 2 | 13 | 10 |
| | Total Obligation Authority | - | - | - | - | - | 2.153 | 1.046 | 7.666 | 6.107 |
| **Total: Secondary Distribution** | **Quantity** | **46** | **26** | **107** | **-** | **107** | **117** | **150** | **134** | **132** |
| | **Total Obligation Authority** | **47.305** | **36.580** | **62.600** | **-** | **62.600** | **62.988** | **78.444** | **79.022** | **80.606** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:**<br>B85800 / Transportable Tactical Command Communications (T2C |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303142A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B85800 / Transportable Tactical Command Communications (T2C | P-5a, P-21 | A | | 10 / 12.666 | 46 / 47.305 | 26 / 36.580 | 107 / 62.600 | - / - | 107 / 62.600 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **10 / 12.666** | **46 / 47.305** | **26 / 36.580** | **107 / 62.600** | **- / -** | **107 / 62.600** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 base procurement dollars, in the amount of $62.600 million, supports the fielding of the remaining Low Rate Initial Production (LRIP) quantities and the procurement and fielding of Full Rate Production (FRP) quantities for T2C2 Light (71) and T2C2 Heavy (36) systems and the applicable spares.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities".

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C | **Item Number / Title [DODIC]:** B85800 / Transportable Tactical Command Communications (T2C |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 10 | 46 | 26 | 107 | - | 107 |
| Gross/Weapon System Cost *($ in Millions)* | 12.666 | 47.305 | 36.580 | 62.600 | - | 62.600 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 12.666 | 47.305 | 36.580 | 62.600 | - | 62.600 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **12.666** | **47.305** | **36.580** | **62.600** | **-** | **62.600** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 1,266.600 | 1,028.370 | 1,406.923 | 585.047 | - | 585.047 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| AN/PSC-15 (GRRIP) Upgrade | 10.000 | 54 | 0.540 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| T2C2 Lite(†) | 359.400 | 5 | 1.797 | 375.174 | 23 | 8.629 | 302.000 | 20 | 6.040 | 275.972 | 71 | 19.594 | - | - | - | 275.972 | 71 | 19.594 |
| T2C2 Heavy(†) | 726.800 | 5 | 3.634 | 509.391 | 23 | 11.716 | 566.333 | 6 | 3.398 | 481.639 | 36 | 17.339 | - | - | - | 481.639 | 36 | 17.339 |
| Software | - | - | 0.980 | - | - | 0.712 | - | - | 1.136 | - | - | 3.461 | - | - | - | - | - | 3.461 |
| System Engineering | - | - | 2.689 | - | - | 5.516 | - | - | 8.425 | - | - | 2.994 | - | - | - | - | - | 2.994 |
| Bridging Capabilities | - | - | - | 477.000 | 12 | 5.724 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *9.640* | - | - | *32.297* | - | - | *18.999* | - | - | *43.388* | - | - | - | - | - | *43.388* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***9.640*** | **-** | **-** | ***32.297*** | **-** | **-** | ***18.999*** | **-** | **-** | ***43.388*** | **-** | **-** | **-** | **-** | **-** | ***43.388*** |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| RHN Upgrades to Support T2C2 | - | - | - | - | - | 9.000 | - | - | 3.500 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | *9.000* | - | - | *3.500* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | ***9.000*** | **-** | **-** | ***3.500*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Data Cost | | | | | | | | | | | | | | | | | | |
| Support Data Data | - | - | 0.608 | - | - | 0.691 | - | - | 0.282 | - | - | 0.287 | - | - | - | - | - | 0.287 |
| *Subtotal: Support - Data Cost* | **-** | **-** | ***0.608*** | **-** | **-** | ***0.691*** | **-** | **-** | ***0.282*** | **-** | **-** | ***0.287*** | **-** | **-** | **-** | **-** | **-** | ***0.287*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C | **Item Number / Title [DODIC]:** B85800 / Transportable Tactical Command Communications (T2C |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 0.331 | - | - | 2.534 | - | - | 11.135 | - | - | 16.372 | - | - | - | - | - | 16.372 |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | ***0.331*** | **-** | **-** | ***2.534*** | **-** | **-** | ***11.135*** | **-** | **-** | ***16.372*** | **-** | **-** | **-** | **-** | **-** | ***16.372*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 2.087 | - | - | 2.783 | - | - | 2.664 | - | - | 2.553 | - | - | - | - | - | 2.553 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***2.087*** | **-** | **-** | ***2.783*** | **-** | **-** | ***2.664*** | **-** | **-** | ***2.553*** | **-** | **-** | **-** | **-** | **-** | ***2.553*** |
| **Gross/Weapon System Cost** | **1,266.600** | **10** | **12.666** | **1,028.370** | **46** | **47.305** | **1,406.923** | **26** | **36.580** | **585.047** | **107** | **62.600** | **-** | **-** | **-** | **585.047** | **107** | **62.600** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 46 | 26 | 107 | - | 107 |
| | Total Obligation Authority | 47.305 | 36.580 | 62.600 | - | 62.600 |
| **Total: Secondary Distribution** | **Quantity** | **46** | **26** | **107** | **-** | **107** |
| | **Total Obligation Authority** | **47.305** | **36.580** | **62.600** | **-** | **62.600** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C | **Item Number / Title [DODIC]:** B85800 / Transportable Tactical Command Communications (T2C |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T2C2 Lite(†) | | 2015 | GATR Technologies / Huntsville | C / IDIQ | Aberdeen Proving Ground, MD | Dec 2015 | Mar 2016 | 5 | 364.000 | Y | | Jun 2013 |
| T2C2 Lite(†) | | 2016 | GATR Technologies / Huntsville | C / IDIQ | Aberdeen Proving Ground, MD | Jun 2016 | Sep 2016 | 23 | 375.170 | Y | | Jun 2013 |
| T2C2 Lite(†) | | 2017 | GATR Technologies / Huntsville | C / IDDQ | Aberdeen Proving Ground, MD | Jun 2017 | Sep 2017 | 20 | 302.000 | Y | | Jun 2013 |
| T2C2 Lite(†) | | 2018 | GATR Technologies / Huntsville | C / IDDQ | Aberdeen Proving Ground, MD | Jan 2018 | Apr 2018 | 71 | 275.970 | Y | | Jun 2013 |
| T2C2 Heavy(†) | | 2015 | GATR Technologies / Huntsville | C / IDIQ | Aberdeen Proving Ground, MD | Dec 2015 | Mar 2016 | 5 | 586.000 | Y | | Jun 2013 |
| T2C2 Heavy(†) | | 2016 | GATR Technologies / Huntsville | C / IDDQ | Aberdeen Proving Ground, MD | Jun 2016 | Sep 2016 | 23 | 509.390 | Y | | Jun 2013 |
| T2C2 Heavy(†) | | 2017 | GATR Technologies / Huntsville | C / IDIQ | Aberdeen Proving Ground, MD | Jun 2017 | Sep 2017 | 6 | 566.330 | Y | | Jun 2013 |
| T2C2 Heavy(†) | | 2018 | GATR Technologies / Huntsville | C / IDIQ | Aberdeen Proving Ground, MD | Jan 2018 | Apr 2018 | 36 | 481.640 | Y | | Jun 2013 |

(†) indicates the presence of a P-21

**Remarks:**
T2C2 will execute Delivery Orders under an existing Small Business Innovated Research (SIBR) III Indefinite Delivery, Indefinite Quantity (IDIQ) contract to procure system hardware.

FY17 and earlier cost estimates were based on the Program offices pre-Milestone C understanding of the system concept, projected system configuration and projected system costs.
FY18 and beyond cost estimates are based on an updated system concept, actual system configuration and current contract system costs. The current period of performance ends in 4Q FY18, and program is currently working on extending the current contract. System costs beyond the contract ordering period are inflated according to the economic adjustment factor of the current contract.

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C | **Item Number / Title [DODIC]:** B85800 / Transportable Tactical Command Communications (T2C |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| T2C2 Lite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 5 | 0 | 5 | | | A - | - | - | 5 | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | ARMY | 23 | 0 | 23 | | | | | | | | | A - | - | - | 11 | 7 | 5 | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 20 | 0 | 20 | | | | | | | | | | | | | | | | | | | | | A - | - | - | 7 | 13 |
| | 1 | 2018 | ARMY | 71 | 0 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | 71 |
| T2C2 Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2015 | ARMY | 5 | 0 | 5 | | | A - | - | - | 5 | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2016 | ARMY | 23 | 0 | 23 | | | | | | | | | A - | - | - | 2 | 5 | 5 | 6 | 5 | | | | | | | | | 0 |
| | 2 | 2017 | ARMY | 6 | 0 | 6 | | | | | | | | | | | | | | | | | | | | | A - | - | - | 6 | 0 |
| | 2 | 2018 | ARMY | 36 | 0 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | 36 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C | **Item Number / Title [DODIC]:** B85800 / Transportable Tactical Command Communications (T2C |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| T2C2 Lite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 5 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | ARMY | 23 | 23 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 20 | 7 | 13 | 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 71 | 0 | 71 | | | | A - | - | - | 4 | 7 | 14 | 15 | 15 | 9 | 7 | | | | | | | | | | | | 0 |
| T2C2 Heavy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2015 | ARMY | 5 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2016 | ARMY | 23 | 23 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2017 | ARMY | 6 | 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2018 | ARMY | 36 | 0 | 36 | | | | A - | - | - | 4 | 7 | 7 | 7 | 7 | 4 | | | | | | | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B85800 / Transportable Tactical Command Communications (T2C | **Item Number / Title [DODIC]:** B85800 / Transportable Tactical Command Communications (T2C |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | GATR Technologies - Huntsville | 1 | 7 | 25 | 0 | 3 | 3 | 6 | 0 | 3 | 3 | 6 |
| 2 | GATR Technologies - Huntsville | 1 | 7 | 25 | 0 | 3 | 3 | 6 | 0 | 3 | 3 | 6 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** BA9350 / SHF Term |

**ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 526.839 | 7.629 | 25.985 | 11.622 | - | 11.622 | 13.100 | 16.133 | 45.687 | 44.785 | - | 691.780 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 526.839 | 7.629 | 25.985 | 11.622 | - | 11.622 | 13.100 | 16.133 | 45.687 | 44.785 | - | 691.780 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **526.839** | **7.629** | **25.985** | **11.622** | **-** | **11.622** | **13.100** | **16.133** | **45.687** | **44.785** | **-** | **691.780** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Super High Frequency (SHF) terminal, also referred to as the Phoenix, satisfies tactical, highly mobile, command and control, intelligence, fire support, air defense and logistics wideband communications requirements in support of Army and multi-service users. Phoenix provides the Army operational flexibility by operating over four bands (C, X, Ka, and Ku) on military and commercial satellites resulting in less dependency on costly and high demand commercial satellites. Fielding is to Active, Reserve and National Guard Expeditionary Signal Battalions (ESBs). The Army decided to retire legacy AN/TSC-85 terminals by 2015 and replace them with SHF (Phoenix) terminals and upgrade all Phoenix terminals from 20 to 50 Megabits per second (Mbps) aggregate capacity to meet growing capacity demands. This program is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) for the SHF Terminal is 112.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 7.629 | 25.985 | 7.622 | - | 7.622 | 8.100 | 9.133 | 24.687 | 23.785 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 3.000 | - | 3.000 | 4.000 | 5.000 | 16.000 | 16.000 |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 1.000 | - | 1.000 | 1.000 | 2.000 | 5.000 | 5.000 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **7.629** | **25.985** | **11.622** | **-** | **11.622** | **13.100** | **16.133** | **45.687** | **44.785** |

**Justification:**

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:**<br>BA9350 / SHF Term | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

FY2018 Base procurement dollars in the amount of $11.622 million supports Phoenix obsolescence mitigation efforts supporting FY17 Transition to Sustainment for legacy terminals; and implementation efforts to meet Transmission Systems Increment 1 Capabilities Production Document (CPD) requirements. The CPD requirements for an Ethernet Internet Protocol (IP) interface and Time Division Multiple Access (TDMA) modems will significantly enhance Phoenix interoperability with the Warfighter Information Network - Tactical (WIN-T) terminals. Funding supports implementation of an FY19 competitive contract award for these capabilities.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** K47800 / NAVSTAR Global Positioning System (SPACE) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,161.516 | 14.027 | - | - | - | - | - | - | - | - | - | 1,175.543 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,161.516 | 14.027 | - | - | - | - | - | - | - | - | - | 1,175.543 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,161.516** | **14.027** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **1,175.543** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The NAVSTAR Global Positioning System (GPS) is a passive, space-based, radio positioning, navigation, and timing (PNT) system providing precise time, three dimensional position, navigation and velocity information to Warfighters. Accurate positioning, navigation and timing are critical enablers to all Army Warfighting capabilities. Timing is a key enabler to tactical communications networks.The NAVSTAR GPS program is designated as a DoD Space Program and the United States Air Force (USAF) is the executive service. The USAF GPS Directorate develops enabling technologies and products for GPS User Equipment (PE 35164F), with direct Army management and participation. The Army implements these technologies into Army architectures and user equipment. The Army NAVSTAR GPS program provides for management, procurement, fielding and support of Army GPS User Equipment. GPS User Equipment consists of a family of Selective-Availability Anti-Spoofing Module (SAASM) based PNT Capability solutions which span aviation users, ground users, host vehicles, and sensors. Current GPS User Equipment is comprised of a dual-use dismounted handheld or system-installed Defense Advanced GPS Receiver (DAGR), DAGR Distributed Device (D3) for distributed PNT on platforms, and Ground-Based GPS Receiver Application Module (GB-GRAM) for embedded PNT.

Public Law 111-383 Section 913 (January 2011) Authorizes FY 2017 and beyond appropriations to only procure GPS equipment capable of receiving the military code, commonly known as M-code, if M-code capable equipment is available.

Current Army Acquisition Objective (AAO) for the DAGR/D3 is 462,288 units.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 14.027 | - | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **14.027** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**
Program has no FY 2018 requirements.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:**<br>K47800 / NAVSTAR Global Positioning System (SPACE) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** BC4002 / SMART-T (SPACE) |

**ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 278 | - | - | - | - | - | - | - | - | - | - | 278 |
| Gross/Weapon System Cost *($ in Millions)* | 723.956 | 13.453 | 9.165 | 6.799 | - | 6.799 | 7.160 | 1.081 | - | - | - | 761.614 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 723.956 | 13.453 | 9.165 | 6.799 | - | 6.799 | 7.160 | 1.081 | - | - | - | 761.614 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **723.956** | **13.453** | **9.165** | **6.799** | **-** | **6.799** | **7.160** | **1.081** | **-** | **-** | **-** | **761.614** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,604.158 | - | - | - | - | - | - | - | - | - | - | 2,739.619 |

## Description:

AN/TSC-154A, Secure, Mobile, Anti-Jam, Reliable, Tactical -Terminal (SMART-T) is a multi-channel satellite terminal that provides beyond line of sight support for the current and future tactical communications network. The SMART-T provides a robust, protected satellite capability to permit uninterrupted communications, as our advancing forces move beyond the line-of-sight of terrestrial systems. The prime mover is a High Mobility Multi-Purpose Wheeled Vehicle (HMMWV) configured with all of the electronics and a self-erected antenna. SMART-T provides the only low probability of interception and low probability of detection (LPI/LPD) capability to avoid being targeted for destruction, jamming or eavesdropping. Additionally, SMART-T provides fully interoperable communications with the Milstar terminals of other services (Air Force, Navy, Marine Corps and other DoD agencies and activities). SMART-T terminals have been upgraded to use the Advanced Extremely High Frequency (AEHF) satellite constellation, which provides a four-fold increase in communication capacity over the current Milstar system, but retains full backward compatibility with the Milstar satellites. SMART-T is designated as a DoD Space Program.

The Approved Acquisition Objective (AAO) is 324 terminals plus 8 terminals procured for the DoD Special Users.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 9.203 | 4.565 | 4.047 | - | 4.047 | 5.910 | 1.081 | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 2.000 | 2.300 | 2.502 | - | 2.502 | 1.000 | - | - | - |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 2.250 | 2.300 | 0.250 | - | 0.250 | 0.250 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **13.453** | **9.165** | **6.799** | **-** | **6.799** | **7.160** | **1.081** | **-** | **-** |

**Justification:**

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:**<br>BC4002 / SMART-T (SPACE) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

FY 2018 Base procurement dollars in the amount of $6.799 million support non-recurring engineering and fielding of the Ethernet Repeater (Transmission CPD Internet Protocol (IP)) requirements to previously procured SMART-T AEHF terminals. Upgrading SMART-T with the IP interface will improve the connectivity and interface with WIN-T nodes, support New Equipment Training (NET) Operations, simplify training, and support Army echelons from Corps to Battalion levels. It will also enable WIN-T Network Operations (NETOPS) to rapidly reconfigure and route priority traffic to mitigate effects of jamming on the vulnerable WIN-T transmission paths for all nodes.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** BC4120 / Global Brdcst Svc - GBS |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 297.712 | 6.265 | - | 7.065 | - | 7.065 | 16.397 | 16.301 | - | - | - | 343.740 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 297.712 | 6.265 | - | 7.065 | - | 7.065 | 16.397 | 16.301 | - | - | - | 343.740 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **297.712** | **6.265** | **-** | **7.065** | **-** | **7.065** | **16.397** | **16.301** | **-** | **-** | **-** | **343.740** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Global Broadcast Service (GBS) provides high speed broadcast of large volume data and multimedia products. These include Unmanned Aerial Vehicles (UAV) and commercial video and products from imagery, intelligence, weather and biometric data sources. GBS gives deployed forces access to national level repositories of intelligence products and other critical mission planning information. This is a Joint Program and is designated as a Department of Defense Space System. The Air Force (USAF) is designated as the executive service for this Acquisition Category (ACAT) IC program. The Army GBS program is designated ACAT III. The Army supports the Joint Program Office (JPO) for the development and procurement of the Transportable Ground Receive Suites (TGRS). The TGRS consists of a Receive Broadcast Manager (RBM) and a one meter satellite antenna which can receive video, imagery, and large data files. The TGRS is fielded to Battalion, Brigade Combat Teams, Division, Corps and Theater level units in active, National Guard, and reserve components.

**Justification:**

FY18 funds in the amount of 7.065 million will be used to complete AN/TSR-11 (WIN7) non-TRANSEC mode fielding and begin the WIN10 upgrade. Funds will also be used to continue the AN/TSR-11 (WIN7) non-TRANSEC tech refresh, conduct Army Interoperability Certification (AIC), and procure various software licenses. The AN/TRS-11 is a Transportable Ground Receive Suite (TGRS) which includes a Receive Broadcast Manager (RBM) and a one meter satellite antenna.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** BB8417 / Mod Of In-Svc Equip (TAC SAT) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 46.337 | 1.042 | - | - | - | - | - | - | - | - | - | 47.379 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 46.337 | 1.042 | - | - | - | - | - | - | - | - | - | 47.379 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **46.337** | **1.042** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **47.379** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Mod of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment. This Mod of In-Svc funding procures and fields Tactical Computer Digital Mission Planner (T-CDMP) AN/PYQ-19. T-CDMP replaces the Communications Planning System (CPS)(AN/PSQ-17). The T-CDMP is an integrated tool on which Military Strategic and Tactical Relay (MILSTAR) and Advanced Extremely High Frequency (AEHF) satellite communication network planning will be performed. The T-CDMP supports real-time mission planning and network management to efficiently use limited satellite resources. The T-CDMP generates Terminal Image Data essential for the operation of Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T) and Single Channel Anti-Jam Manportable Program (SCAMP) terminals.

The T-CDMP Approved Acquisition Objective is 318.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1.042 | - | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **1.042** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**
The program has no FY 2018 requirements.

"IAW Section 1815 of the FY 2008 NDAA (P.L. 110-181), this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:** B08400 / ENROUTE MISSION COMMAND (EMC) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 100.000 | 7.116 | - | 21.667 | - | 21.667 | 23.072 | 5.957 | - | - | - | 157.812 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 100.000 | 7.116 | - | 21.667 | - | 21.667 | 23.072 | 5.957 | - | - | - | 157.812 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **100.000** | **7.116** | **-** | **21.667** | **-** | **21.667** | **23.072** | **5.957** | **-** | **-** | **-** | **157.812** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Enroute Mission Command Capability (EMC) supports the Global Response Force (GRF) requirement to conduct Airborne forcible entry operations with the ability to conduct mission command, to include mission planning and rehearsal, while enroute on board US Air Force Air Mobility Command (AMC) aircraft. EMC modernizes enroute communications to enable broadband reach-back data capability utilizing military or commercial networks with adequate bandwidth to support required Mission Command and Intelligence applications.

The enduring requirement for EMC is documented in the Transmission Systems Capabilities Production Document (CPD), which was Joint Requirements Oversight Council (JROC) approved 18 Dec 2014.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 7.116 | - | 21.667 | - | 21.667 | 23.072 | 5.957 | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **7.116** | **-** | **21.667** | **-** | **21.667** | **23.072** | **5.957** | **-** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 18: Comm - Satellite Communications | **P-1 Line Item Number / Title:**<br>B08400 / ENROUTE MISSION COMMAND (EMC) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B00015 / Enroute Mission Command (EMC) | P-5a | | | - / 100.000 | - / 7.116 | - / - | - / 21.667 | - / - | - / 21.667 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 100.000** | **- / 7.116** | **- / -** | **- / 21.667** | **- / -** | **- / 21.667** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base dollars in the amount of $21.667 million procures Ka Fixed Satellite Antenna (FISA) Modification Work Order (MWO) hardware, fielding, spares, training, bandwidth, software and program office support.

Operational Needs Statement (ONS) 09-9319 was revalidated by the HQDA G-3 on 5 Nov 2014 to support fielding of the objective capability, which will support a full brigade lift of the Alpha echelon for a forced entry operation. (ONS) 09-9319 was validated by HQDA G3 in 5 Mar 2013. $21.275 million was provided in September 2013 via an Above Threshold Reprogramming (ATR) on SSN BB8417 Modification of In-Service Equipment (TACSAT) in support of that ONS to provide an initial capability.

Commensurate with rephasing of FY17 OPA funding into FY18/19, program was restructured in Dec 2015. MDA addressed schedule issues (Oct 2016) by authorizing to field a Ku SATCOM band FISA Full Operational Capability (FOC) (4QFY17) and complete a Modification Word Order (MWO), adding Ka SATCOM band FISA capability, post Ku FISA FOC.

Initial Operational Capability was met in May 2015 with modification of five C-17s with satellite antennae and installation kits, and roll-on/roll-off, battalion level, Key Leader Node (KEN). FOC is 35 Ku FISA equipped C-17s, eight KENs, 24 company level Dependent Airborne Nodes (DAN), and an airborne command post suite (CASPAN).

The enduring requirement for EMC is documented in the Transmission Systems Capabilities Production Document (CPD), DAMO, CIC 30 January 2015.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B08400 / ENROUTE MISSION COMMAND (EMC) | **Item Number / Title [DODIC]:** B00015 / Enroute Mission Command (EMC) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 100.000 | 7.116 | - | 21.667 | - | 21.667 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 100.000 | 7.116 | - | 21.667 | - | 21.667 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **100.000** | **7.116** | **-** | **21.667** | **-** | **21.667** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Engineering (NRE) | - | - | 6.127 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| KuKa Fixed Installed Satellite Antenna (FISA) | - | - | 22.820 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ku Fixed Installed Satellite Antenna (FISA)(†) | 837.000 | 30 | 25.110 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Key Leader En Route Node (KEN)(†) | 784.000 | 8 | 6.272 | - | - | 1.347 | - | - | - | - | - | - | - | - | - | - | - | - |
| Dependent Airborne Node (DAN)(†) | 77.000 | 24 | 1.848 | - | - | 0.455 | - | - | - | - | - | - | - | - | - | - | - | - |
| MWO FISA (Ka) | - | - | - | - | - | - | - | - | - | 926.100 | 10 | 9.261 | - | - | - | 926.100 | 10 | 9.261 |
| MWO KEN (Ka) | - | - | - | - | - | - | - | - | - | 718.100 | 5 | 3.590 | - | - | - | 718.000 | 5 | 3.590 |
| Fielding/FSR | - | - | 1.038 | - | - | 0.627 | - | - | - | - | - | 0.657 | - | - | - | - | - | 0.657 |
| Spares | - | - | 1.687 | - | - | - | - | - | - | - | - | 1.167 | - | - | - | - | - | 1.167 |
| Training/Bandwidth | - | - | 3.644 | - | - | 3.388 | - | - | - | - | - | 2.746 | - | - | - | - | - | 2.746 |
| PDSS | - | - | 6.004 | - | - | 0.443 | - | - | - | - | - | 1.534 | - | - | - | - | - | 1.534 |
| Additional Hardware (Screens and Marquees) | - | - | 20.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B08400 / ENROUTE MISSION COMMAND (EMC) | **Item Number / Title [DODIC]:** B00015 / Enroute Mission Command (EMC) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Recurring Cost* | - | - | *94.550* | - | - | *6.260* | - | - | - | - | - | *18.956* | - | - | - | - | - | *18.955* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***94.550*** | **-** | **-** | ***6.260*** | **-** | **-** | **-** | **-** | **-** | ***18.956*** | **-** | **-** | **-** | **-** | **-** | ***18.955*** |
| Checkout and Launch Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 2.234 | - | - | 0.351 | - | - | - | - | - | 1.911 | - | - | - | - | - | 1.911 |
| Contractor Management | - | - | 3.216 | - | - | 0.505 | - | - | - | - | - | 0.800 | - | - | - | - | - | 0.800 |
| *Subtotal: Checkout and Launch Cost* | **-** | **-** | ***5.450*** | **-** | **-** | ***0.856*** | **-** | **-** | **-** | **-** | **-** | ***2.711*** | **-** | **-** | **-** | **-** | **-** | ***2.711*** |
| **Gross/Weapon System Cost** | **-** | **-** | **100.000** | **-** | **-** | **7.116** | **-** | **-** | **-** | **-** | **-** | **21.667** | **-** | **-** | **-** | **-** | **-** | **21.667** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 7.116 | - | 21.667 | - | 21.667 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **7.116** | **-** | **21.667** | **-** | **21.667** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 18 | **P-1 Line Item Number / Title:** B08400 / ENROUTE MISSION COMMAND (EMC) | **Item Number / Title [DODIC]:** B00015 / Enroute Mission Command (EMC) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ku Fixed Installed Satellite Antenna (FISA) | | 2015 | STS International, Inc / Berkeley Springs, WV | C / FFP | Orlando, FL | Sep 2016 | May 2017 | 30 | 837.000 | Y | Sep 2016 | Feb 2016 |
| Key Leader En Route Node (KEN) | | 2015 | GDMS / Taunton, MA | C / FFP | Aberdeen Proving Ground, MD | Aug 2015 | Dec 2015 | 8 | 1,515.000 | | | |
| Dependent Airborne Node (DAN) | | 2015 | GDMS / Taunton, MA | C / FFP | Aberdeen Proving Ground, MD | Aug 2015 | Dec 2015 | 24 | 132.000 | | | |

**Remarks:**
MWO Ka vendor is not yet determined

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 20: Comm - Combat Support Comm | **P-1 Line Item Number / Title:** K27910 / Mod-In-Service Profiler |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1.902 | - | - | 0.070 | - | 0.070 | - | - | - | - | - | 1.972 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1.902 | - | - | 0.070 | - | 0.070 | - | - | - | - | - | 1.972 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1.902** | **-** | **-** | **0.070** | **-** | **0.070** | **-** | **-** | **-** | **-** | **-** | **1.972** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Profiler Virtual Module (PVM) provides meteorological (MET) data that includes wind speed, wind direction, temperature, barometric pressure, and humidity information required for use in the Advanced Field Artillery Tactical Data System (AFATDS). The information is necessary for precise targeting and terminal guidance to Field Artillery assets. PVM improves accuracy of predictive fires solutions and allows for first round effects on target and reduces the risk of fratricide. This capability increases the lethality of indirect fire systems such as the rocket launchers, self-propelled or towed howitzers, and mortars.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 0.070 | - | 0.070 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **-** | **0.070** | **-** | **0.070** | **-** | **-** | **-** | **-** |

**Justification:**

FY 2018 Base funding of $.070 million supports modernization of Profiler.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 24: Comm - C3 System | **P-1 Line Item Number / Title:** BA8250 / Army Global Cmd & Control Sys (AGCCS) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303150A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 400.316 | 8.291 | 2.530 | 2.658 | - | 2.658 | 2.643 | 3.688 | 2.848 | - | - | 422.974 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 400.316 | 8.291 | 2.530 | 2.658 | - | 2.658 | 2.643 | 3.688 | 2.848 | - | - | 422.974 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **400.316** | **8.291** | **2.530** | **2.658** | **-** | **2.658** | **2.643** | **3.688** | **2.848** | **-** | **-** | **422.974** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Global Command and Control System-Army (GCCS-A): This project is the Army component of the Global Command and Control System (GCCS) Family of Systems (FoS). GCCS-A provides automated command and control tools, including Force readiness, planning and movement, and situational awareness, for Army Strategic and Operational Theater commanders to enhance warfighter capabilities throughout the spectrum of conflict during Joint and combined operations in support of National Security. GCCS-A dramatically improves the Army's ability to analyze courses of action, develop and manage Army forces and execute war plans. GCCS-A links the GCCS-Joint Common Operating Picture with the Army Mission Command systems. In accordance with Army Command Post Computing Environment and Joint Command and Control objectives, GCCS-A will be re-architected away from a scalable process architecture based server - thick client architecture to a virtualized server - web client architecture hosted on Battle Command Common Services / Tactical Server Infrastructure.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 8.291 | 2.530 | 2.658 | - | 2.658 | 2.643 | 3.688 | 2.848 | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **8.291** | **2.530** | **2.658** | **-** | **2.658** | **2.643** | **3.688** | **2.848** | **-** |

**Justification:**

FY 2018 Base funding in the amount of $2.658 million will support fielding of GCCS-A version 4.3.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B90000 / Joint Tactical Radio System |

| | | |
|---|---|---|
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604280A, 0605042A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 26,855 | - | - | - | - | - | - | - | - | - | - | 26,855 |
| Gross/Weapon System Cost *($ in Millions)* | 923.859 | 54.640 | - | - | - | - | - | - | - | - | - | 978.499 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 923.859 | 54.640 | - | - | - | - | - | - | - | - | - | 978.499 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **923.859** | **54.640** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **978.499** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 34.402 | - | - | - | - | - | - | - | - | - | - | 36.436 |

## Description:

B90000 is a summary of Procurement funding for the Handheld Manpack Small Form Fit (HMS) program: B90210 (JTRS HMS - Handheld) and B90215 (JTRS HMS - Manpack); RDTE funding for the HMS program resides in Program Element 0604280A prior to FY 2017, and 0605042A in FY 2017 and out. The Manpack (MP) Radio is reflected under SSN B90210 in FY 2011 and 2012. The MP Radio is reflected under separate SSN B90215 in FY 2013 and out. As of FY 2017, HMS funding will transfer from the parent B90000 to the parent B95004. B90210 and B90215 will transfer to B95006 (Handheld), and B95007 (Manpack) respectively. This change was made in order to remove "JTRS" from the HMS nomenclature as the program is now Army led. Therefore, B95006 and B95007 will not be considered new starts in FY 2017.

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a materiel solution meeting requirements for Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government Purpose Rights software waveforms (applications). HMS is an Acquisition Category IC program that encompasses specific requirements to support the U.S. Army, Air Force, Navy, Marine Corps and Special Operations Command communications needs.

HMS provides voice and data communications to the tactical edge/most disadvantaged warfighter with an on-the-move, at-the-halt, and stationary Line of Sight (LOS) / Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. HMS radio systems are software reprogrammable, networkable, multi-mode systems capable of simultaneous voice and data communications.

HMS encompasses the Handheld (HH) Radios (one-channel Rifleman Radio (RR) and two-channel Leader Radio (LR)), MP, and Small Form Fit (SFF) radios. HMS radios will provide voice and support for data services such as text, control graphics, imagery, video, and telemetry to Warfighters and tactical end user devices including handheld, embedded, and larger computing devices, as well as unmanned systems.

The current HH AAO (Army Acquisition Objective) is 193,279:
-100,000 LR
-93,279 RR

The current MP AAO is 65,622

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B90000 / Joint Tactical Radio System | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604280A, 0605042A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 54.640 | - | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **54.640** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**
Program has no FY 2018 funding request in this PE, as HMS funding has been realigned from the parent B90000 to the parent B95004. B90210 and B90215 realign to B95006 (Handheld), and B95007 (Manpack) respectively. This change was made in order to remove "JTRS" from the HMS nomenclature as the program is now Army led.

In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604280A, 0605042A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 1,463 | 3,658 | - | 3,658 | 6,492 | 7,663 | 7,776 | 9,268 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 273.645 | 355.351 | - | 355.351 | 358.516 | 399.913 | 402.780 | 474.826 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 273.645 | 355.351 | - | 355.351 | 358.516 | 399.913 | 402.780 | 474.826 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **273.645** | **355.351** | **-** | **355.351** | **358.516** | **399.913** | **402.780** | **474.826** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 187.044 | 97.144 | - | 97.144 | 55.224 | 52.188 | 51.798 | 51.233 | Continuing | Continuing |

## Description:

B95004 is a summary of the Handheld, Manpack, and Small Form Fit (HMS) program: B95006 (HMS - Handheld Radio) and B95007 (HMS - Manpack Radio). Prior to FY 2017, this effort was funded under SSN B90000: B90210 Joint Tactical Radio System (JTRS) HMS Handheld and B90215 JTRS HMS Manpack. The Manpack (MP) Radio was reflected under SSN B90210 in FY 2011 and 2012, and under SSN B90215 in FY 2013 through 2016. In FY 2017 and out, B90000 no longer includes funding associated with the HMS Program. SSN B95004 was established to clearly associate HMS with Program Executive Office Command, Control and Communications-Tactical (PEO C3T) under Project Manager Tactical Radios (PM TR) and to remove "JTRS" from the HMS nomenclature as the program is now Army led.

The Handheld, Manpack, and Small Form Fit (HMS) radio program is a materiel solution meeting requirements for Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government Purpose Rights software waveforms (applications). HMS is an Acquisition Category IC program that encompasses specific requirements to support the U.S. Army, Air Force, Navy, Marine Corps and Special Operations Command communications needs.

HMS provides voice and data communications to the tactical edge/most disadvantaged warfighter with an on-the-move, at-the-halt, and stationary Line of Sight (LOS) / Beyond Line of Sight (BLOS) capability for both dismounted personnel and platforms. HMS radio systems are software reprogrammable, networkable, multi-mode systems capable of simultaneous voice and data communications.

HMS encompasses the Handheld (HH) Radios (one-channel Rifleman Radio (RR) and two-channel Leader Radio (LR), MP, and Small Form Fit (SFF) radios. HMS radios will provide voice and support for data services such as text, control graphics, imagery, video, and telemetry to Warfighters and tactical end user devices including handheld, embedded, and larger computing devices, as well as unmanned systems.

HMS is currently executing a May 2014 approved Acquisition Strategy (AS) to procure Non-Developmental Items (NDI) through full and open competition open to all potential industry partners. Two Firm-Fixed-Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) contracts were awarded in support of this effort. The first contract was awarded on 29 April 2015 to procure HH. The initial Delivery Order on this contract was to procure RR to test at the HMS Customer Test. On 13 September 2016 HMS presented the two-channel LR requirements to the Army Configuration Steering Board (CSB). The CSB validated the requirement and directed the establishment of a Basis of Issue (BOI) for the LR and the equivalent decrease in the BOI of the RR. The overall Approved Acquisition Objective for the HH remained unchanged. The Operational Test (OT) and procurement of the RR was deferred, and HMS was directed to move forward with a two-channel LR. The existing HH contract suite will be the vehicle for LR procurements. The LR will simultaneously run the Soldier Radio Waveform (SRW) and Single Channel Ground and Airborne Radio System (SINCGARS). An addendum to the AS was approved by the acting Army Acquisition Executive on 8 March 2017, which incorporates the LR requirements.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604280A, 0605042A |
| **Line Item MDAP/MAIS Code:** N/A | | |

The second contract was awarded on 26 February 2016 and will procure NDI MP radios for use in a classified environment. MP is capable of running the following waveforms: SRW, SINCGARS, and Satellite Communications (SATCOM). Mobile User Objective System (MUOS), a Navy managed waveform, is a future fielded capability for MP.

The Army will award FFP IDIQ Contracts and will procure radios through a multiple step selection process:
a. Award FFP Contracts to all qualified vendors based on technical acceptability and demonstrations (26 February 2016 for MP and 4QFY17 for LR)
b. Award initial delivery orders based on Qualification Test results (19 December 2016 for MP and 3QFY18 for LR)
c. Award second delivery orders based on Customer Test results (3QFY17 for MP and N/A for LR)
d. Award first competitive delivery orders based on Field/Lab-Based Risk Reduction events (2QFY18 for MP and N/A for LR)
e. Award FRP delivery orders based on Operational Test and best value trade off construct (3QFY19 for MP and 3QFY19 for LR)

The current Handheld AAO (Army Acquisition Objective) is 193,279:
-100,000 Leader Radios
-93,279 Rifleman Radios

The current Manpack AAO is 65,622.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | 1,463 | 3,658 | - | 3,658 | 6,492 | 7,663 | 7,776 | 9,268 |
| | Total Obligation Authority | - | 273.645 | 355.351 | - | 355.351 | 358.516 | 399.913 | 402.780 | 474.826 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **1,463** | **3,658** | **-** | **3,658** | **6,492** | **7,663** | **7,776** | **9,268** |
| | **Total Obligation Authority** | **-** | **273.645** | **355.351** | **-** | **355.351** | **358.516** | **399.913** | **402.780** | **474.826** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B95004 / Handheld Manpack Small Form Fit (HMS) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604280A, 0605042A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B95006 / Handheld Radio | P-5a | | | - / - | - / - | - / 43.734 | 506 / 37.773 | - / - | 506 / 37.773 |
| P-5 | B95007 / Manpack Radio | P-5a, P-21 | | | - / - | - / - | 1,463 / 229.911 | 3,152 / 317.578 | - / - | 3,152 / 317.578 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / -** | **- / -** | **1,463 / 273.645** | **3,658 / 355.351** | **- / -** | **3,658 / 355.351** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $355.351 million support the procurement of:
- 506 LR, (of which 140 are Mounted LR) for competition testing and fielding, support equipment, and fielding. It is anticipated that the radio procurement will be evenly split between two vendors. ($37.773 million)
- 3,152 MP Radios, NRE, support equipment, fielding, and vehicle integration. ($317.578 million)

In accordance with Section 1815 of the FY08 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:** B95006 / Handheld Radio |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 506 | - | 506 |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 43.734 | 37.773 | - | 37.773 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 43.734 | 37.773 | - | 37.773 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **43.734** | **37.773** | **-** | **37.773** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 74.650 | - | 74.650 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Manufacturing - Leader Radio(†) | - | - | - | - | - | - | - | - | - | 11.361 | 366 | 4.158 | - | - | - | 11.361 | 366 | 4.158 |
| Manufacturing - Leader Radio Mounted(†) | - | - | - | - | - | - | - | - | - | 28.357 | 140 | 3.970 | - | - | - | 28.357 | 140 | 3.970 |
| Manufacturing - Rifleman Radio | - | - | - | - | - | - | - | - | 19.409 | - | - | - | - | - | - | - | - | - |
| Manufacturing - Rifleman Radio Mounted | - | - | - | - | - | - | - | - | 10.529 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *29.938* | - | - | *8.128* | - | - | - | - | - | *8.128* |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***29.938*** | **-** | **-** | ***8.128*** | **-** | **-** | **-** | **-** | **-** | ***8.128*** |
| Support - Common Support Equipment Cost | | | | | | | | | | | | | | | | | | |
| Support and Handling Equipment | - | - | - | - | - | - | - | - | 4.371 | - | - | 3.453 | - | - | - | - | - | 3.453 |
| *Subtotal: Support - Common Support Equipment Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***4.371*** | **-** | **-** | ***3.453*** | **-** | **-** | **-** | **-** | **-** | ***3.453*** |
| Support - Data Cost | | | | | | | | | | | | | | | | | | |
| Engineering Data | - | - | - | - | - | - | - | - | 0.241 | - | - | 0.300 | - | - | - | - | - | 0.300 |
| *Subtotal: Support - Data Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***0.241*** | **-** | **-** | ***0.300*** | **-** | **-** | **-** | **-** | **-** | ***0.300*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | 2.172 | - | - | 1.970 | - | - | - | - | - | 1.970 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:** B95006 / Handheld Radio |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Support - Fielding Cost* | - | - | - | - | - | - | - | - | 2.172 | - | - | 1.970 | - | - | - | - | - | 1.970 |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | - | - | - | - | - | - | 6.004 | - | - | 3.234 | - | - | - | - | - | 3.234 |
| *Subtotal: Support - System Engineering Cost* | - | - | - | - | - | - | - | - | 6.004 | - | - | 3.234 | - | - | - | - | - | 3.234 |
| Support - System Technical Support (STS) Cost | | | | | | | | | | | | | | | | | | |
| System Technical Support (STS) | - | - | - | - | - | - | - | - | 1.008 | - | - | 20.688 | - | - | - | - | - | 20.688 |
| *Subtotal: Support - System Technical Support (STS) Cost* | - | - | - | - | - | - | - | - | 1.008 | - | - | 20.688 | - | - | - | - | - | 20.688 |
| **Gross/Weapon System Cost** | - | - | - | - | - | - | - | - | 43.734 | 74.650 | 506 | 37.773 | - | - | - | 74.650 | 506 | 37.773 |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | 506 | - | 506 |
| | Total Obligation Authority | - | 43.734 | 37.773 | - | 37.773 |
| **Total: Secondary Distribution** | **Quantity** | - | - | 506 | - | 506 |
| | **Total Obligation Authority** | - | 43.734 | 37.773 | - | 37.773 |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:** B95006 / Handheld Radio |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Manufacturing - Leader Radio | | 2018 | TBD / TBD | C / FFP | APG, MD | Apr 2018 | Jun 2018 | 366 | 11.360 | N | May 2017 | May 2017 |
| Manufacturing - Leader Radio Mounted | | 2018 | TBD / TBD | C / FFP | APG, MD | Apr 2018 | Jun 2018 | 140 | 28.360 | N | May 2017 | May 2017 |

**Remarks:**
HMS contracts will be Firm Fixed Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) for Full Rate Production (FRP).

Vendors for the RR FRP contract are Harris Radio Corp (Rochester, NY) and Thales Communications (Clarksburg, MD). The Army has made the decision to pursue a two-channel handheld LR to meet the developing needs of Nett Warrior and the Warfighter community. The LR contract award is expected in September of 2017. Quantities shown may be split if multiple vendors qualify for award. Requirements for the single channel RR have been deferred to a later date.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:** B95007 / Manpack Radio |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 1,463 | 3,152 | - | 3,152 |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 229.911 | 317.578 | - | 317.578 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 229.911 | 317.578 | - | 317.578 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **229.911** | **317.578** | **-** | **317.578** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 157.150 | 100.754 | - | 100.754 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Recurring Manufacturing - Manpack(†) | - | - | - | - | - | - | 78.556 | 1,463 | 114.928 | 60.416 | 3,152 | 190.430 | - | - | - | 60.416 | 3,152 | 190.430 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *114.927* | - | - | *190.431* | - | - | - | - | - | *190.431* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware NRE | - | - | - | - | - | - | - | - | 59.051 | - | - | 33.380 | - | - | - | - | - | 33.380 |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | - | - | - | *59.051* | - | - | *33.380* | - | - | - | - | - | *33.380* |
| *Subtotal: Flyaway Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***173.978*** | **-** | **-** | ***223.811*** | **-** | **-** | **-** | **-** | **-** | ***223.811*** |
| Support - Common Support Equipment Cost | | | | | | | | | | | | | | | | | | |
| Support and Handling Equipment | - | - | - | - | - | - | - | - | 1.409 | - | - | 5.181 | - | - | - | - | - | 5.181 |
| *Subtotal: Support - Common Support Equipment Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***1.409*** | **-** | **-** | ***5.181*** | **-** | **-** | **-** | **-** | **-** | ***5.181*** |
| Support - Data Cost | | | | | | | | | | | | | | | | | | |
| Engineering Data | - | - | - | - | - | - | - | - | 0.598 | - | - | 0.991 | - | - | - | - | - | 0.991 |
| *Subtotal: Support - Data Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***0.598*** | **-** | **-** | ***0.991*** | **-** | **-** | **-** | **-** | **-** | ***0.991*** |
| Support - Engineering Change Proposals Cost | | | | | | | | | | | | | | | | | | |
| Engineering Change Proposals | - | - | - | - | - | - | - | - | 2.848 | - | - | 5.713 | - | - | - | - | - | 5.713 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:** B95007 / Manpack Radio |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Support - Engineering Change Proposals Cost* | - | - | - | - | - | - | - | - | ***2.848*** | - | - | ***5.713*** | - | - | - | - | - | ***5.713*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | 8.661 | - | - | 12.484 | - | - | - | - | - | 12.484 |
| *Subtotal: Support - Fielding Cost* | - | - | - | - | - | - | - | - | ***8.661*** | - | - | ***12.484*** | - | - | - | - | - | ***12.484*** |
| Support - Operational/Site Activation Cost | | | | | | | | | | | | | | | | | | |
| System Assembly, Installation and Checkout on Site | - | - | - | - | - | - | - | - | 5.651 | - | - | 24.492 | - | - | - | - | - | 24.492 |
| *Subtotal: Support - Operational/Site Activation Cost* | - | - | - | - | - | - | - | - | ***5.651*** | - | - | ***24.492*** | - | - | - | - | - | ***24.492*** |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | - | - | - | - | - | - | 31.564 | - | - | 36.238 | - | - | - | - | - | 36.238 |
| *Subtotal: Support - System Engineering Cost* | - | - | - | - | - | - | - | - | ***31.564*** | - | - | ***36.238*** | - | - | - | - | - | ***36.238*** |
| Support - System Technical Support (STS) Cost | | | | | | | | | | | | | | | | | | |
| System Technical Support (STS) | - | - | - | - | - | - | - | - | 5.202 | - | - | 8.668 | - | - | - | - | - | 8.668 |
| *Subtotal: Support - System Technical Support (STS) Cost* | - | - | - | - | - | - | - | - | ***5.202*** | - | - | ***8.668*** | - | - | - | - | - | ***8.668*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **157.150** | **1,463** | **229.911** | **100.754** | **3,152** | **317.578** | **-** | **-** | **-** | **100.754** | **3,152** | **317.578** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | 1,463 | 3,152 | - | 3,152 |
| | Total Obligation Authority | - | 229.911 | 317.578 | - | 317.578 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **1,463** | **3,152** | **-** | **3,152** |
| | **Total Obligation Authority** | **-** | **229.911** | **317.578** | **-** | **317.578** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 32 | P-1 Line Item Number / Title: B95004 / Handheld Manpack Small Form Fit (HMS) | Item Number / Title [DODIC]: B95007 / Manpack Radio |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Recurring Manufacturing - Manpack(†) | | 2017 | General Dynamics / Arizona | C / FFP | APG, MD | Jul 2017 | Sep 2017 | 488 | 78.180 | N | Jul 2017 | May 2017 |
| Recurring Manufacturing - Manpack(†) | | 2017 | Harris Corp / New York | C / FFP | APG, MD | Jul 2017 | Sep 2017 | 488 | 78.180 | N | Jul 2017 | May 2017 |
| Recurring Manufacturing - Manpack(†) | | 2017 | Rockwell Collins Inc / Iowa | C / FFP | APG, MD | Jul 2017 | Sep 2017 | 487 | 78.180 | N | Jul 2017 | May 2017 |
| Recurring Manufacturing - Manpack(†) | | 2018 | TBD / TBD | C / FFP | APG, MD | May 2018 | Jul 2018 | 3,152 | 60.420 | N | Oct 2017 | Nov 2017 |

(†) indicates the presence of a P-21

**Remarks:**
HMS contracts will be Firm Fixed Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) for Full Rate Production (FRP).

Vendors for the MP FRP contract are Harris Radio Corp (Rochester, NY), General Dynamics (Scottsdale, AZ), and Rockwell Collins Inc. (Cedar Rapids, IA). Quantity breakouts will be determined at the award of each Delivery Order. For planning purposes, quantity breakout for FY 2017 is an even split between the three vendors. Two vendors are expected to compete for quantities in FY 2018. Quantity breakout and vendors will be determined when the delivery order is awarded.

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:** B95007 / Manpack Radio |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Recurring Manufacturing - Manpack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 488 | 0 | 488 | | | | | | | | | | A - | - | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 40 | 40 | 40 | 40 | | 0 |
| | 2 | 2017 | ARMY | 488 | 0 | 488 | | | | | | | | | | A - | - | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 40 | 40 | 40 | 40 | | 0 |
| | 3 | 2017 | ARMY | 487 | 0 | 487 | | | | | | | | | | A - | - | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 40 | 40 | 40 | 40 | 40 | | 0 |
| | 4 | 2018 | ARMY | 3,152 | 0 | 3,152 | | | | | | | | | | | | | | | | | | | | A - | - | 263 | 263 | 263 | 2,363 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:** B95007 / Manpack Radio |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Recurring Manufacturing - Manpack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 488 | 488 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 2 | 2017 | ARMY | 488 | 488 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 3 | 2017 | ARMY | 487 | 487 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 4 | 2018 | ARMY | 3,152 | 789 | 2,363 | 263 | 263 | 263 | 263 | 263 | 262 | 262 | 262 | 262 | | | | | | | | | | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 32 | **P-1 Line Item Number / Title:**<br>B95004 / Handheld Manpack Small Form Fit (HMS) | **Item Number / Title [DODIC]:**<br>B95007 / Manpack Radio |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | General Dynamics - Arizona | 1 | 21 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Harris Corp - New York | 1 | 21 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Rockwell Collins Inc - Iowa | 1 | 21 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | TBD - TBD | 1 | 21 | 300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Remarks:**
There will be two separate awards for the FY 2017 procurements. The first award was made on 19 December 2016 and procured 51 Customer Test assets from each vendor (153 Manpack Radios total). The second award, as shown, is scheduled for May 2017 and will procure 1,310 Manpack Radios between all qualified vendors.

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604290A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 241 | 132 | 77 | - | 77 | 350 | 18 | 139 | 348 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 74.997 | 22.762 | 25.017 | 25.100 | - | 25.100 | 47.292 | 33.553 | 47.108 | 80.253 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 74.997 | 22.762 | 25.017 | 25.100 | - | 25.100 | 47.292 | 33.553 | 47.108 | 80.253 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **74.997** | **22.762** | **25.017** | **25.100** | **-** | **25.100** | **47.292** | **33.553** | **47.108** | **80.253** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 94.448 | 189.523 | 325.974 | - | 325.974 | 135.120 | 1,864.056 | 338.906 | 230.612 | Continuing | Continuing |

## Description:

The Mid-tier Networking Vehicular Radios (MNVR) enables the extension of data services within the tactical network through seamless integration of the upper and lower tiers; providing software-defined, multi-channel networking radios for a wide variety of Army tactical vehicles to meet the Army's requirement for the Mid-tier Wideband Networking (MWN) capability. The MNVR provides self-forming and self-healing communication networks from the brigade to the platoon level throughout the full range of military operations.

The MNVR, a modified Non-Developmental Item (NDI), supports Army Mission Command operational requirements with a multi-channel, Type 1 (supporting multiple independent levels of security), vehicular mounted radio hosting networking waveforms Wideband Networking Waveform (WNW) and Soldier Radio Waveform (SRW). The MNVR narrows the data capability gap at the Brigade Combat Team (BCT) company level and provides the capability to build a data extension to the lowest echelons, and then enables the extension of services from the Forward Operating Base (FOB) to the platform. MNVR provides a dynamic, scalable, On-the-Move (OTM) network architecture, connecting the Soldier to the Mission Command (MC) Network and enhances capability to exchange voice and data simultaneously and faster than current systems. The advanced network waveforms provide rapid distribution of data and imagery with increased information assurance protection and automatic routing across complex terrain. The system operates Internet Protocol (IP) based networking waveforms offering increased data throughput through self-forming, self-healing, managed communication networks. Its route and retransmit functionality links waveforms in different frequency bands, within the 2 Megahertz (MHz) to 2 Gigahertz (GHz) range, to form one cohesive network. MNVR nomenclature has been designated as AN/VRC-118(V)1.

A single award contract was awarded on 24 September 2013, Indefinite Delivery Indefinite Quantity (IDIQ), firm fixed price, 3-year ordering period. Production of 232 radios for Test & Evaluation and certification purposes was completed in 3QFY 2014. On 3 Oct 2016, Defense Acquisition Executive (ADM) published a MNVR MS C Acquisition Decision Memorandum. Product Manager (PdM) MNVR will prepare for Government Regression Testing (GRT) and evaluation planning for First Unit Equipped (FUE).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 241 | 132 | 77 | - | 77 | 350 | 18 | 139 | 348 |
| | Total Obligation Authority | 22.762 | 25.017 | 25.100 | - | 25.100 | 47.292 | 33.553 | 47.108 | 80.253 |
| **Total: Secondary Distribution** | **Quantity** | **241** | **132** | **77** | **-** | **77** | **350** | **18** | **139** | **348** |
| | **Total Obligation Authority** | **22.762** | **25.017** | **25.100** | **-** | **25.100** | **47.292** | **33.553** | **47.108** | **80.253** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604290A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) | P-5a | | | - / 74.997 | 241 / 22.762 | 132 / 25.017 | 77 / 25.100 | - / - | 77 / 25.100 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 74.997** | **241 / 22.762** | **132 / 25.017** | **77 / 25.100** | **- / -** | **77 / 25.100** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $25.100 million supports the execution of the modified Non-Developmental Item (NDI) strategy for a mid-tier networking vehicular capability to include the procurement of 77 MNVR Radio A and B Kits, program management office support, logistics and fielding support for previously procured systems. Radios procured will support Capability Set 18.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) | **Item Number / Title [DODIC]:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 241 | 132 | 77 | - | 77 |
| Gross/Weapon System Cost *($ in Millions)* | 74.997 | 22.762 | 25.017 | 25.100 | - | 25.100 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 74.997 | 22.762 | 25.017 | 25.100 | - | 25.100 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **74.997** | **22.762** | **25.017** | **25.100** | **-** | **25.100** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 94.448 | 189.523 | 325.974 | - | 325.974 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Engineering Changes | - | - | - | - | - | 0.211 | - | - | 0.134 | - | - | 0.078 | - | - | - | - | - | 0.078 |
| Platform Integration | - | - | 11.839 | - | - | 0.349 | - | - | 0.251 | - | - | - | - | - | - | - | - | - |
| Project Management Administration | - | - | 37.247 | - | - | 6.115 | - | - | 3.891 | - | - | 8.285 | - | - | - | - | - | 8.285 |
| System Engineering Support | - | - | 9.439 | - | - | 2.179 | - | - | 1.922 | - | - | 1.908 | - | - | - | - | - | 1.908 |
| *Subtotal: Recurring Cost* | - | - | *58.525* | - | - | *8.854* | - | - | *6.198* | - | - | *10.271* | - | - | - | - | - | *10.271* |
| ***Subtotal: Flyaway Cost*** | **-** | **-** | ***58.525*** | **-** | **-** | ***8.854*** | **-** | **-** | ***6.198*** | **-** | **-** | ***10.271*** | **-** | **-** | **-** | **-** | **-** | ***10.271*** |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| MNVR (B-Kit)(†) | - | - | 1.885 | 43.905 | 241 | 10.581 | 53.484 | 132 | 7.060 | 53.649 | 77 | 4.131 | - | - | - | 53.649 | 77 | 4.131 |
| Other Hardware (A-Kit) | - | - | 7.310 | - | - | 0.665 | - | - | 1.931 | - | - | 1.169 | - | - | - | - | - | 1.169 |
| Software Maintenance Recurring | - | - | - | - | - | - | - | - | 2.209 | - | - | 2.496 | - | - | - | - | - | 2.496 |
| Software Maintenance NonRecurring | - | - | 7.204 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *16.399* | - | - | *11.246* | - | - | *11.200* | - | - | *7.796* | - | - | - | - | - | *7.796* |
| ***Subtotal: Hardware Cost*** | **-** | **-** | ***16.399*** | **-** | **-** | ***11.246*** | **-** | **-** | ***11.200*** | **-** | **-** | ***7.796*** | **-** | **-** | **-** | **-** | **-** | ***7.796*** |
| Package Fielding Cost | | | | | | | | | | | | | | | | | | |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) | **Item Number / Title [DODIC]:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | 6.477 | - | - | 5.516 | - | - | - | - | - | 5.516 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *6.477* | - | - | *5.516* | - | - | - | - | - | *5.516* |
| *Subtotal: Package Fielding Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***6.477*** | **-** | **-** | ***5.516*** | **-** | **-** | **-** | **-** | **-** | ***5.516*** |
| Logistics Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Logistics Support | - | - | 0.073 | - | - | 2.662 | - | - | 1.142 | - | - | 1.517 | - | - | - | - | - | 1.517 |
| *Subtotal: Recurring Cost* | - | - | *0.073* | - | - | *2.662* | - | - | *1.142* | - | - | *1.517* | - | - | - | - | - | *1.517* |
| *Subtotal: Logistics Cost* | **-** | **-** | ***0.073*** | **-** | **-** | ***2.662*** | **-** | **-** | ***1.142*** | **-** | **-** | ***1.517*** | **-** | **-** | **-** | **-** | **-** | ***1.517*** |
| **Gross/Weapon System Cost** | **-** | **-** | **74.997** | **94.448** | **241** | **22.762** | **189.523** | **132** | **25.017** | **325.974** | **77** | **25.100** | **-** | **-** | **-** | **325.974** | **77** | **25.100** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 241 | 132 | 77 | - | 77 |
| | Total Obligation Authority | 22.762 | 25.017 | 25.100 | - | 25.100 |
| **Total: Secondary Distribution** | **Quantity** | **241** | **132** | **77** | **-** | **77** |
| | **Total Obligation Authority** | **22.762** | **25.017** | **25.100** | **-** | **25.100** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 32 | **P-1 Line Item Number / Title:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) | **Item Number / Title [DODIC]:** B51001 / MID-TIER NETWORKING VEHICULAR RADIO (MNVR) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MNVR (B-Kit) | | 2016 | Harris Corp / Rochester NY | C / FFP | Aberdeen Proving Ground, MD | Sep 2016 | Nov 2016 | 241 | 43.905 | Y | Sep 2013 | Aug 2012 |
| MNVR (B-Kit) | | 2017 | Harris Corp / Rochester NY | C / FFP | Aberdeen Proving Ground, MD | Dec 2016 | Jun 2017 | 132 | 53.484 | Y | Sep 2013 | Aug 2012 |
| MNVR (B-Kit) | | 2018 | Harris Corp / Rochester NY | C / FFP | Aberdeen Proving Ground, MD | Dec 2017 | Jun 2018 | 77 | 53.649 | | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B22603 / Radio Terminal Set, MIDS LVT(2) |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 5 | 101 | 121 | 109 | - | 109 | 102 | 23 | 111 | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 94.746 | 9.422 | 12.326 | 11.160 | - | 11.160 | 10.016 | 3.838 | 11.453 | 5.950 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 94.746 | 9.422 | 12.326 | 11.160 | - | 11.160 | 10.016 | 3.838 | 11.453 | 5.950 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **94.746** | **9.422** | **12.326** | **11.160** | **-** | **11.160** | **10.016** | **3.838** | **11.453** | **5.950** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 18,949.200 | 93.287 | 101.868 | 102.385 | - | 102.385 | 98.196 | 166.870 | 103.180 | - | Continuing | Continuing |

## Description:

The Multifunctional Information Distribution System Low Volume Terminal (MIDS LVT) is a communications device that provides situational awareness information exchange between aircraft, airborne command and control, Ground Air Defense and shipboard platforms in the Tactical Data Link-16 Network. The Army variant consists of three Line Replaceable Units (Main Terminal, Power Supply Assembly and Cooling Unit) installed on a mounting base, which physically and functionally replaces the Joint Tactical Information Distribution System (JTIDS) Class 2M terminal. MIDS LVT(2) to MIDS LVT(11) modification adds voice capability to meet emerging operational requirements.

The Army Acquisition Objective for MIDS LVT is 709 and the Army Procurement Objective is 572. The Army procured 572 terminals through FY15 and no additional terminal procurements are planned. Planned fielding supports the purchase of 572 Block Upgrade 2 (BU2) upgrade kits in support of National Security Agency and Federal Aviation Administration mandates. Voice hardware purchases (cables and cards) support the LVT(2) to LVT(11) conversions required for the Integrated Air and Missile Defense Battle Command System's (IBCS) Link 16 voice requirement. Procurement quantities depicted above are for BU2 upgrade kits only, no additional terminal procurements are planned.

Army MIDS is part of the Joint Navy-led MIDS program. The Army leverages Navy contracts to support Army MIDS LVT efforts and to procure Block Upgrade 2 (BU2) upgrade kits. The BU2 retrofit improves the capabilities and security of the MIDS LVT by incorporating the crypto-modernization and mandated frequency remapping to ensure compliance with National Security Agency and Federal Aviation Administration mandates. The BU2 kit replaces approximately five shop replaceable units within the radio.

Procurement dollars support the MIDS LVT(2) to MIDS LVT(11) upgrades used in the following systems: Air Defense Airspace Management (ADAM) Cell, Patriot, Terminal High Altitude Area Defense (THAAD), Forward Area Air Defense Command and Control (FAADC2), Joint Land Attack Cruise Missile Defense Elevated Netted Sensor (JLENS), Joint Tactical Ground Station (JTAGS), and Integrated Air and IBCS.

The Low Volume Terminal (LVT) Cryptographic Module (LCM) is a subcomponent required to support the BU2 retrofit kit. The LCM is procured from ViaSat and is provided as Government Furnished Equipment to the vendors (ViaSat and DLS) to support the retrofits.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 101 | 121 | 89 | - | 89 | 83 | 19 | 87 | - |
| | Total Obligation Authority | 9.422 | 12.326 | 9.117 | - | 9.117 | 8.187 | 3.137 | 8.915 | 5.950 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B22603 / Radio Terminal Set, MIDS LVT(2) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| ANG | Quantity | - | - | 20 | - | 20 | 19 | 4 | 19 | - |
| | Total Obligation Authority | - | - | 2.043 | - | 2.043 | 1.829 | 0.701 | 2.092 | - |
| AR | Quantity | - | - | - | - | - | - | - | 5 | - |
| | Total Obligation Authority | - | - | - | - | - | - | - | 0.446 | - |
| **Total: Secondary Distribution** | **Quantity** | **101** | **121** | **109** | **-** | **109** | **102** | **23** | **111** | **-** |
| | **Total Obligation Authority** | **9.422** | **12.326** | **11.160** | **-** | **11.160** | **10.016** | **3.838** | **11.453** | **5.950** |

**Justification:**
FY2018 Base dollars in the amount of $11.160 million will support BU2 retrofit kits, engineering services, software support, and program management. The BU2 unit cost is pending negotiation and contract award. With a planning retrofit unit cost of $.078 million, 109 BU2 retrofit kits may be procured in FY18.

Procurement quantities depicted above are for BU2 upgrade kits only, no additional terminal procurements are planned.

Note: The LCM is a low-cost ($2,850.00) subcomponent that is not reflected on the P-40 form; quantities in the P-40 represent BU2 retrofit kits only.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B19920 / AMC Critical Items - OPA2 |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 3,081 | 5,012 | - | - | - | - | - | - | - | - | - | 8,093 |
| Gross/Weapon System Cost *($ in Millions)* | 122.353 | 11.643 | - | - | - | - | - | - | - | - | - | 133.996 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 122.353 | 11.643 | - | - | - | - | - | - | - | - | - | 133.996 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **122.353** | **11.643** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **133.996** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 39.712 | 2.323 | - | - | - | - | - | - | - | - | - | 16.557 |

## Description:

The AMC Critical Items Program oversees the process by which Class II and VII end items that are out of production and, consequently, now under AMC management, are re-procured to fill shortages. The program supports major end-item (weapon system) inventory management through item managers. The program requirements represent actual and projected equipment deficiencies and do not include obsolete items or items replaced by modernized successors managed by G8.

The Army Materiel Command (AMC) identifies Table of Organizational Equipment (TOE) items with identifiable line item numbers (LINs) that have valid unit requirements and support Army force generation requirements. These LINs are in the sustainment phase of their life cycle and are no longer being acquired by the Army. In some cases there is a production base because of commercial, Foreign Military Sales (FMS) or other service demands. The Army prioritizes these items and determines that the systems requested herein are key to supporting current operations.

LIN H01907: The AN/ASM-146 Repair Shelter is an air transportable, mobile field maintenance facility that provides repair capability at the BCT level for all Commmunications-Electronics (C-E) systems and equipment and is critical to maintaining C-E readiness in the battlefield.

LIN P40750: Power Supply PP-6224, LIN P40750 is a power supply that furnishes 0-25 amperes over a voltage range of 24 to 32 Vdc from nominal 115/230 VAC at 50, 60 or 400 Hz single phase. The power supply can also operate from a 24 Vdc storage battery in the battery standby mode. It is the Army standard tactical 24V DC power source for C-E equipment in Tactical Operations Centers (TOCs) as well as equipment dismounted from vehicles.

**Justification:**

This program has no FY 2018 funding request.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** BC3000 / TRACTOR DESK |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 89.777 | 4.073 | 2.034 | 2.041 | - | 2.041 | 2.187 | 4.072 | 4.120 | 4.233 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 89.777 | 4.073 | 2.034 | 2.041 | - | 2.041 | 2.187 | 4.072 | 4.120 | 4.233 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **89.777** | **4.073** | **2.034** | **2.041** | **-** | **2.041** | **2.187** | **4.072** | **4.120** | **4.233** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The details for this program are reported in accordance with Title 10, United States Code, Section 119(a)(1)."

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 4.073 | 2.034 | 2.041 | - | 2.041 | 2.187 | 4.072 | 4.120 | 4.233 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **4.073** | **2.034** | **2.041** | **-** | **2.041** | **2.187** | **4.072** | **4.120** | **4.233** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B03001 / Tractor Ride |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 2.334 | 5.534 | 1.000 | 6.534 | 3.777 | 9.704 | 10.101 | 6.320 | - | 38.770 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 2.334 | 5.534 | 1.000 | 6.534 | 3.777 | 9.704 | 10.101 | 6.320 | - | 38.770 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **2.334** | **5.534** | **1.000** | **6.534** | **3.777** | **9.704** | **10.101** | **6.320** | **-** | **38.770** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The details for this program are reported in accordance with Title 10, United States Code, Section 119(a)(1).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | 2.334 | 5.534 | 1.000 | 6.534 | 3.777 | 9.704 | 10.101 | 6.320 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **2.334** | **5.534** | **1.000** | **6.534** | **3.777** | **9.704** | **10.101** | **6.320** |

**Justification:**

The details for this program are reported in accordance with Title 10, United States Code, Section 119(a)(1).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B55501 / SPIDER APLA Remote Control Unit |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 141.565 | 1.683 | 1.985 | 0.996 | - | 0.996 | - | - | - | - | - | 146.229 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 141.565 | 1.683 | 1.985 | 0.996 | - | 0.996 | - | - | - | - | - | 146.229 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **141.565** | **1.683** | **1.985** | **0.996** | **-** | **0.996** | **-** | **-** | **-** | **-** | **-** | **146.229** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Spider is a hand emplaced, remotely controlled, anti-personnel munition system that was designed to replace the capability of the persistent anti-personnel landmines banned from use after December 2010 per US Landmine policy. Spider, as a Man-in-the-Loop system, offers numerous capabilities for asymmetric warfare focusing on small unit force protection. The system is made up of four subsystems: Man-in-the-Loop (the human operator), Remote Control Station (the system command and control station), Repeater (a communication link to the munitions that provides extended range), and Munition Control Units (delivers anti-personnel effects). The Spider is designed to mitigate the indiscriminate initiation of the lethal mechanism. A soldier makes a conscious decision to engage a target with the lethal mechanism. Spider's sensor capabilities and controlled munitions provide needed force protection and battlefield shaping. Spider allows measured and graduated responses including sense only, non lethal, and lethal modes. Spider also supports net-centric operations by feeding situational awareness information (location and status) into the Battle Command System. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. This item is Code A, approved for service use. Type Classification Standard and Full Material Release were achieved in July and September 2013 respectively. The Spider Army Acquisition Objective is 732 systems.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1.683 | - | - | - | - | - | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | 1.985 | - | - | - | - | - | - | - |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 0.996 | - | 0.996 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **1.683** | **1.985** | **0.996** | **-** | **0.996** | **-** | **-** | **-** | **-** |

**Justification:**

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B55501 / SPIDER APLA Remote Control Unit | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

FY 2018 Base procurement dollars in the amount of $0.996 million supports the Spider Increment 1 New Equipment Training (NET) team and provides fielding and logistical support for fielding events to the National Guard.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B54020 / Spider Family of Networked Munitions Incr |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604808A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 31 | 63 | - | - | - | 34 | 26 | 33 | 24 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | - | 9.199 | 10.796 | 4.500 | - | 4.500 | 10.635 | 9.245 | 8.936 | 8.728 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 9.199 | 10.796 | 4.500 | - | 4.500 | 10.635 | 9.245 | 8.936 | 8.728 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **9.199** | **10.796** | **4.500** | **-** | **4.500** | **10.635** | **9.245** | **8.936** | **8.728** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 296.742 | 171.365 | - | - | - | 312.794 | 355.577 | 270.788 | 363.667 | Continuing | Continuing |

## Description:

M7 Spider is a hand emplaced, remotely controlled, Man-In-The-Loop (MITL) anti-personnel munition system that is currently being fielded. Spider Increment 1A (M7E1) utilizes an evolutionary acquisition approach which builds upon the baseline Spider Increment 1 system. Spider Increment 1A will 1) replace the Spider Increment 1 Remote Control Unit (RCU) with a new Networked Munitions Control Station that includes mapping capability, interoperability to the Mission Command System (MCS) or Joint Battle Command Platform (JBC-P) and new technologies, 2) control current Spider AP munitions and 3) demonstrate the initiation of legacy GOTS AV (lethal) and AP (lethal and non-lethal) effects. All other M7 Spider Increment 1 components (i.e. Control Station Transceiver (CST), Munition Control Units (MCUs)) will remain as is to ensure backwards compatibility. The Spider system with its many desirable features makes it a versatile weapon system that has significant utility across the full spectrum of military operations and will support current and future operations. The Spider Increment 1A Army Procurement Objective is 317 systems and the overall Spider program has an Approved Acquisition Objective (AAO) of 705 systems.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 31 | 63 | - | - | - | 19 | 14 | 16 | - |
| | Total Obligation Authority | 9.199 | 10.796 | 4.500 | - | 4.500 | 6.395 | 5.169 | 4.468 | - |
| ANG | Quantity | - | - | - | - | - | 15 | 12 | 17 | 24 |
| | Total Obligation Authority | - | - | - | - | - | 4.240 | 4.076 | 4.468 | 8.728 |
| **Total: Secondary Distribution** | **Quantity** | **31** | **63** | **-** | **-** | **-** | **34** | **26** | **33** | **24** |
| | **Total Obligation Authority** | **9.199** | **10.796** | **4.500** | **-** | **4.500** | **10.635** | **9.245** | **8.936** | **8.728** |

**Justification:**

FY 2018 Base procurement dollars in the amount of $4.500 million will be utilized for engineering support for the team which will be conducting First Article and Production Verification testing on Low Rate Initial Production (LRIP) systems. In addition, the teams will be preparing for transition into Full Rate Production and working on the Production Procurement Package to be awarded in FY19.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B54020 / Spider Family of Networked Munitions Incr | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604808A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** BA5300 / Soldier Enhancement Program Comm/Electronics |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 96.635 | 0.349 | - | - | - | - | - | - | - | - | - | 96.984 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 96.635 | 0.349 | - | - | - | - | - | - | - | - | - | 96.984 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **96.635** | **0.349** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **96.984** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Soldier Enhancement Program (SEP) was established by the National Defense Authorization Act for Fiscal Year 1990 and 1991. The SEP evaluates available Commercial Off the Shelf (COTS), Government Off the Shelf (GOTS) and Non-Developmental Item (NDI) equipment to determine if items have the potential to provide increased combat effectiveness to the Soldier. The SEP OPA2 funding provided a means of procuring selected types of equipment (electronics and communications) designed to increase Soldiers' mission command, situational awareness and operational effectiveness through FY16.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 0.349 | - | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **0.349** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**
No additional funding required beyond FY2016.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B55510 / Tactical Communications And Protective System |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 11,612 | 8,987 | 2,110 | 2,827 | - | 2,827 | 380 | 380 | 380 | 380 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 67.489 | 25.597 | 3.607 | 4.411 | - | 4.411 | 1.000 | 1.000 | 1.000 | 1.000 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 67.489 | 25.597 | 3.607 | 4.411 | - | 4.411 | 1.000 | 1.000 | 1.000 | 1.000 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **67.489** | **25.597** | **3.607** | **4.411** | **-** | **4.411** | **1.000** | **1.000** | **1.000** | **1.000** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 5.812 | 2.848 | 1.709 | 1.560 | - | 1.560 | 2.632 | 2.632 | 2.632 | 2.632 | Continuing | Continuing |

## Description:

The Tactical Communications and Protective System (TCAPS) provides Soldiers with advanced active hearing protection that simultaneously protects Soldiers' hearing (from harmful Impulse and Steady-State Noises), while enabling situational awareness (e.g., enhanced ability to detect sounds) and mission command (e.g., voice communications over a tactical radio). TCAPS enhances survivability and situational awareness by protecting Soldiers from noise induced hearing loss. Soldiers wearing TCAPS are provided hearing protection capable of amplifying faint sounds that under normal circumstance would not be audible or intelligible with the naked ear and the ability to detect the direction of the sound.

TCAPS employs Commercial-Off-The-Shelf (COTS) solutions that are evaluated on a periodic basis, in order to validate performance requirements and Soldier acceptance. The best commercial solution(s) evaluated are transitioned into sustainment and fielding. TCAPS hearing protection contributes to the reduction of post-service disability compensation and limits lost in-service time related to hearing injuries. To accommodate existing situations for Soldiers not assigned a tactical radio, the TCAPS Program includes TCAPS-Lite providing hearing protection and situational awareness for soldiers that do not require connectivity to a tactical radio for radio communications.

TCAPS Approved Acquisition Objective is 106,184.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 8,987 | 2,110 | 2,827 | - | 2,827 | 380 | 380 | 380 | 380 |
| | Total Obligation Authority | 25.597 | 3.607 | 4.411 | - | 4.411 | 1.000 | 1.000 | 1.000 | 1.000 |
| **Total: Secondary Distribution** | **Quantity** | **8,987** | **2,110** | **2,827** | **-** | **2,827** | **380** | **380** | **380** | **380** |
| | **Total Obligation Authority** | **25.597** | **3.607** | **4.411** | **-** | **4.411** | **1.000** | **1.000** | **1.000** | **1.000** |

**Justification:**
FY 2018 procurement dollars in the amount of $4.411 million procures commercial-off-the-shelf Tactical Communications and Protective Systems for up to one (1) IBCT and associated fielding.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>B55510 / Tactical Communications And Protective System | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

The General Accounting Office (GAO) Report 11-114 states that the Veterans Administration purchased 382,000 hearing assistive devices at an estimated expenditure of $154 million in FY2008 and provided annual disability payments in excess of $1.1 billion in FY2009. Hearing injuries will be avoided only if Soldiers wear hearing protection. Historically Soldiers have had to choose between hearing protection and auditory situational awareness, TCAPS eliminates the need to make a choice by providing both along with enabling command, control and situational awareness.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** B58601 / Unified Command Suite |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 25.445 | 21.854 | 14.295 | 15.275 | - | 15.275 | 17.026 | 17.486 | 17.822 | 17.500 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 25.445 | 21.854 | 14.295 | 15.275 | - | 15.275 | 17.026 | 17.486 | 17.822 | 17.500 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **25.445** | **21.854** | **14.295** | **15.275** | **-** | **15.275** | **17.026** | **17.486** | **17.822** | **17.500** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Unified Command Suite (UCS) is a fully integrated mobile communications platform that is self-sufficient and highly interoperable by integrating commercial off the shelf (COTS) and government off the shelf (GOTS) military communications hardware. UCS provides communications interoperability with Federal, State, Local and Military Emergency Response elements at incident scenes. UCS provides reachback capability which allows Incident Commanders the ability to assess an incident scene, advise responders, and facilitate access to Department of Defense information. UCS provides critical Key Performance Parameter directed reachback communications for Analytical Laboratory Systems (ALS) and other Civil Support Team (CST) systems.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1.580 | 1.534 | 1.543 | - | 1.543 | 1.621 | 1.627 | 1.530 | 1.503 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 20.274 | 12.761 | 13.732 | - | 13.732 | 15.405 | 15.859 | 16.292 | 15.997 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **21.854** | **14.295** | **15.275** | **-** | **15.275** | **17.026** | **17.486** | **17.822** | **17.500** |

**Justification:**

FY 2018 Base funding in the amount of $15.275 million will modernize, upgrade, and procure components for the Unified Command Suites for National Guard Bureau Weapons of Mass Destruction Civil Support Teams (WMD-CST). Funding supports the satellite communication subsystem and land mobile radio modernization efforts. Each of these components is at or will be at their end of life, near depletion of sustainment spare components, and has become more costly than obsolescence replacement. In addition, each of the components listed represents a significant investment that requires modifications to existing subsystem assemblies for information assurance or regulatory purposes.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:** MA8000 / Family of Med Comm for Combat Casualty Care |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 71,782 | 2,363 | 3,011 | 121 | - | 121 | 255 | 3,832 | 3,832 | - | - | 85,196 |
| Gross/Weapon System Cost *($ in Millions)* | 496.177 | 24.388 | 19.893 | 15.964 | - | 15.964 | 17.124 | 27.946 | 23.837 | - | - | 625.329 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 496.177 | 24.388 | 19.893 | 15.964 | - | 15.964 | 17.124 | 27.946 | 23.837 | - | - | 625.329 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **496.177** | **24.388** | **19.893** | **15.964** | **-** | **15.964** | **17.124** | **27.946** | **23.837** | **-** | **-** | **625.329** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 6.912 | 10.321 | 6.607 | 131.934 | - | 131.934 | 67.153 | 7.293 | 6.221 | - | - | 7.340 |

## Description:

The Medical Communications for Combat Casualty Care (MC4) system interfaces Force Health Protection and medical surveillance information with Army Mission Command information technology systems. The system captures and provides data for future medical care and medical record retention for all Servicemembers. The MC4 system fulfills the requirements highlighted in United States Code: Title 10, Subtitle A, Part II, Chapter 55, Section 1074f, mandating the proper documentation of deployed Servicemembers' medical treatment to include pre- and post-deployment screening and its associated medical surveillance, enabling each soldier to have a comprehensive, life-long medical record of all illnesses and injuries. The collection and analysis of medical data provided by the MC4 system provides and enhances medical situational awareness for mission commanders. The MC4 program is currently in full fielding of integrated Information Management/Information Technology (IM/IT) equipment. The MC4 system is comprised of seven Line item Numbers (LINs) and is fielded to all Army units with medical assets. The mix of LINs fielded to any unit is directly related to the unit's medical function and will differ dependent on the type of unit.

In prior years, MC4 has procured and fielded equipment aligned with the incremental development of the jointly developed Theater Medical Information Program-Joint (TMIP-J) electronic health record software. As software increments have evolved to a final objective state (available in FY17), MC4 hardware has been replaced and upgraded to support the capability provided by the upgraded software increments and releases. The Army Acquisition Objective (AAO) includes all seven MC4 LINs to be fielded which will operate the final version of the TMIP-J software and totals 39,883 LIN quantities of the MC4 system.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 1,224 | 821 | 121 | - | 121 | 255 | 3,832 | 3,832 | - |
| | Total Obligation Authority | 12.637 | 0.813 | 15.964 | - | 15.964 | 17.124 | 27.946 | 23.837 | - |
| ANG | Quantity | 828 | 1,065 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 8.542 | 7.859 | - | - | - | - | - | - | - |
| AR | Quantity | 311 | 1,125 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 3.209 | 11.221 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **2,363** | **3,011** | **121** | **-** | **121** | **255** | **3,832** | **3,832** | **-** |
| | **Total Obligation Authority** | **24.388** | **19.893** | **15.964** | **-** | **15.964** | **17.124** | **27.946** | **23.837** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 32: Comm - Combat Communications | **P-1 Line Item Number / Title:**<br>MA8000 / Family of Med Comm for Combat Casualty Care | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

**Justification:**
FY 2018 Base procurement dollars in the amount of $15.964 million supports production engineering, fielding and new equipment training for new systems. In addition, overall program office management efforts are funded in this appropriation. Base funding in FY18 is required to continue fielding remaining gaps of MC4 capability to the Army medical force structure. FY18 funding will procure 121 end components of the MC4 system for upgraded and new equipment fielding and provide new equipment training (NET) as needed for 11 Active units (1 engineering company, 2 military police units, 2 engineering companies, 2 maneuver enhancement brigades,1 veterinary medical unit, 1 aviation unit, 2 civil affairs units). The system is fielded and trained to units as they prepare for deployment or other priority missions. The medical encounters captured by the MC4 system will provide the Soldiers' electronic health record as well as data to databases and systems that enable commanders to: identify population health trends and outbreaks; reallocate human and materiel resources based on needs; determine if locations are the source of illnesses or injuries; and make better tactical and medical decisions that impact the mission and Soldiers' health.

In accordance with Section 1815 of the FY08 National Defense Authorization Act (NDAA)(P.L. 110-181) this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm | **P-1 Line Item Number / Title:** BK5284 / CI Automation Architecture |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 69.927 | 1.349 | 11.438 | 9.560 | - | 9.560 | 9.877 | 10.100 | 10.120 | 10.447 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 69.927 | 1.349 | 11.438 | 9.560 | - | 9.560 | 9.877 | 10.100 | 10.120 | 10.447 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **69.927** | **1.349** | **11.438** | **9.560** | **-** | **9.560** | **9.877** | **10.100** | **10.120** | **10.447** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This program provides the Army, as a member of the Department of Defense (DoD) Counterintelligence (CI) community with advanced CI operational equipment to enhance Army's ability to contour the global threat through significant improvements in information sharing, common situational awareness, and knowledge management in a joint operational environment. The Intelligence and Security Command (INSCOM) Enterprise Capital Equipment Replacement Program (CERP), as authorized and directed under INSCOM Policy Memorandum G6-1 by the INSCOM CG on 17 February 2017, provides for the systematic Life Cycle Replacement (LCR) of INSCOM Enterprise Common Computing Infrastructure to support INSCOM business, intelligence and security mission operations. Capital Equipment Replacement Program (CERP), G6 is to replace routers, switches, storage device, printers and monitors over six years old; servers, firewalls, and workstations over five years old; and notebooks over four years old.
This program also provides the Army $0.5 million, as a member of the DoD CI community with advanced CI operational equipment to enhance Army's ability to contour the global threat through significant improvements in information sharing, common situational awareness, and knowledge management in a joint operational environment.

**Justification:**

FY2018 Base Funding in the amount of $9.060 million procures Information Technology (IT) hardware purchased for INSCOM to provide IT hardware in support of INSCOM's Mission Command and INSCOM's support to the war-fighting mission. The IT hardware provides the necessary equipment for INSCOM personnel to perform daily and necessary Intelligence Community (IC) support. Without this IT hardware, INSCOM personnel will not be able to execute IC business, intelligence, security and mission operations. Centralized consolidation and management of INSCOM Enterprise CERP provides increased infrastructure standardization, reduced management overhead, and significant cost avoidance.

FY2018 Base Funding in the amount of $0.5 million procures the Department of Defense Intelligence Information System (DODIIS) - compliant CI and Human Intelligence (HUMINT) material solutions to support implementation of case management, threat management information systems, and information processing systems at Service, Major Command (MACOM) and user level Army Intelligence sites. Funding further provides specialized equipment necessary to support worldwide CI operations and investigation missions.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm | **P-1 Line Item Number / Title:** K61010 / Defense Military Deception Initiative |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 4.030 | - | 4.030 | 2.700 | 3.750 | 5.700 | 5.774 | - | 21.954 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 4.030 | - | 4.030 | 2.700 | 3.750 | 5.700 | 5.774 | - | 21.954 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **4.030** | **-** | **4.030** | **2.700** | **3.750** | **5.700** | **5.774** | **-** | **21.954** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Defense Military Deception Initiative (DMDI) program integrates Procurement prototypes with Component programs for acquisition, sustainment and maintenance.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.
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**Justification:**
FY 2018 funding in the amount of $4.030 million supports DMDI prototype efforts.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 36: Comm - Intelligence Comm | **P-1 Line Item Number / Title:** BK6285 / Army CA/MISO GPF Equipment |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 116.701 | 0.993 | 5.494 | - | - | - | - | - | - | - | - | 123.188 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 116.701 | 0.993 | 5.494 | - | - | - | - | - | - | - | - | 123.188 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **116.701** | **0.993** | **5.494** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **123.188** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This program is vital in conventional operations and irregular warfare. Beginning in FY16, the portfolio for Civil Affairs (CA) and Military Information Support Operations (MISO) includes 11 systems. These systems are critical to the Warfighter's capabilities in all overseas contingency operations, theater security cooperation, and stability, transition and reconstruction operations. These systems are deployed in support of the combatant commanders engaging with foreign audiences, joint interagency and multi-national operations before, during, and after military operations. The program enables CA/MISO units to keep pace with the increasing Modified Table of Organization and Equipment (MOTEs), rapid deployment rotational cycles, and the requirements of the Warfighter in various theaters of operations. The Army Acquisition Objectives for these 11 systems are 4 Fly Away Broadcast System-v2 (FABS-v2), 192 Media Production Center-Light (MPC-L), 4 Media Production Center-Medium (MPC-M), 33 MISO Print-Light (MISOP-L), 1 MISO Print-Medium (MISOP-M), 651 Next Generation Loud Speakers-Dismounted (NGLS-D), 641 Next Generation Loud Speaker-Mounted (NGLS-M), 708 Production Distribution System-Light (PDS-L), 10 Radio Integration System Lite (RIS-L), 846 SOF Deployment Node-Light (SDN-L), and 56 Tactical Local Area Network (TACLAN). In FY17 MISO is partnering with Defense Military Deception Initiative (DMDI) program to integrate Procurement prototypes with Component programs for acquisition, sustainment and maintenance.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 0.993 | 5.494 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **0.993** | **5.494** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**
Program has no FY 2018 request.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:** BA1300 / FAMILY OF BIOMETRICS |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0607665A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 2.978 | - | - | - | - | - | - | - | - | 2.978 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 2.978 | - | - | - | - | - | - | - | - | 2.978 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **2.978** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **2.978** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Biometrics Enabling Capability (BEC) product office has full life-cycle management responsibility of the upgraded authoritative biometrics enterprise repository system, known as DoD Automated Biometrics Identification System (DoD ABIS). DoD ABIS is an information technology investment that supports identity superiority by providing the critical capability for Warfighters to identify known or suspected terrorists and third country nationals in the course of military operations. DoD ABIS is the authoritative biometrics enterprise system that provides matching, sharing and storing of biometrics data. The capability can receive multi-modal biometrics submissions to include iris, face, palm and finger prints from biometrics collection devices, which will support the Warfigher in making, retain, capture or release decisions.
The system has a direct impact on the availability of critical intelligence information that is of vital interest to DoD and other government agencies, including Department of Justice (DoJ), Federal Bureau of Investigation (FBI), Department of Homeland Security (DHS), and Department of State (DoS).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | 2.978 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **2.978** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**
Program has no FY 2018 requirement.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:** TA0600 / Information System Security Program-ISSP |

| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0303140A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,529.658 | 19.920 | - | - | - | - | - | - | - | - | - | 1,549.578 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,529.658 | 19.920 | - | - | - | - | - | - | - | - | - | 1,549.578 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,529.658** | **19.920** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **1,549.578** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Cryptographic Systems (CS) Program procures and fields Communications Security (COMSEC) solutions to secure the Army's tactical and enterprise classified networks. New and emerging architectures, cease key dates, emerging threats, and DoD/Army policy are driving the need to replace current inventory of stove pipe systems with technologically advanced (network centric/Global Information Grid (GIG) compliant) devices that incorporate Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic standardization, advanced key management and network centric performance capabilities. This program enables DoD to equip the force with critical cryptographic solutions and services during peacetime, wartime, and contingency operations. The program consists of three product families: In-Line Network Encryptors (INE), Link/Trunk Encryptors Family (LEF), and Secure Voice. (PD Net E)

The Army-wide Cryptographic Network Standardization (ACNS) effort brings cryptographic equipment into compliance with NSA mandated use of modern cryptographic algorithms and keys as well as the Army's upgraded data network including use of Internet Protocol version 6 (IPv6), as mandated by the Army Chief Information Officer (CIO)/G6. ACNS provides the Army fully modernized equipment and provides assistance in the areas of system identification, training, integration, network optimization, and property book updates to gaining Units. ACNS is an essential project as many currently fielded legacy devices will fall out of compliance starting in FY 2015 due to NSA driven cease key dates. Failure to comply will result in vulnerabilities to classified data transmissions, or an inability to communicate at classified levels. (PD Net E)

The Defensive Cyberspace Operations (DCO) program provides initial capabilities to Cyber Protection Teams. Teams enable passive and active cyberspace defensive operations to preserve friendly cyberspace capabilities, and protect data, networks, net-centric capabilities, and other designated systems. DCO consists of four critical capabilities:

DCO-Infrastructure (DCO-I): the hardware and software baseline for remote cyber maneuver based on Defense Advanced Research Projects Agency (DARPA) Plan X
Cyber Protection Team (CPT) support: tools that reside inside DCO-I
Web Vulnerability Scanning: the software baseline to secure key cyber terrain and protect DoD websites
Big Data Analytics: analytics that leverage Defense Information System Agency (DISA) Acropolis analytics

DCO responds to unauthorized activity or alerts/threat information against the Army enterprise, and leverages intelligence, counterintelligence, law enforcement, and other military capabilities. It includes outmaneuvering adversaries taking or about to take offensive actions against defended networks, or otherwise responding to internal and external cyberspace threats. Internal defense measures include mission assurance actions to dynamically reestablish, re-secure, reroute, reconstitute, or isolate degraded or compromised local networks to ensure sufficient cyberspace access for commanders. The Army's DCO activities are a construct of active cyberspace defenses which provide synchronized, real-time capabilities to discover, detect, analyze, and mitigate threats and vulnerabilities to DoD networks and systems.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:**<br>TA0600 / Information System Security Program-ISSP |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303140A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 19.920 | - | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **19.920** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**
Program has no FY 2018 requirement.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303140A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 8,965 | 9,987 | 16,627 | 15,175 | - | 15,175 | 6,756 | 39,378 | 61,311 | 38,747 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 466.244 | 72.257 | 133.284 | 107.804 | - | 107.804 | 100.151 | 250.059 | 311.772 | 224.449 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 466.244 | 72.257 | 133.284 | 107.804 | - | 107.804 | 100.151 | 250.059 | 311.772 | 224.449 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **466.244** | **72.257** | **133.284** | **107.804** | **-** | **107.804** | **100.151** | **250.059** | **311.772** | **224.449** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 52.007 | 7.235 | 8.016 | 7.104 | - | 7.104 | 14.824 | 6.350 | 5.085 | 5.793 | Continuing | Continuing |

## Description:

The Communications Security (COMSEC) program consists of three sub-programs: Cryptographic Systems (CS), Army Key Management Infrastructure (AKMI), and Embedded Cryptographic Modernization Initiative (ECMI).

The CS Program procures and fields COMSEC solutions to secure the Army's tactical and enterprise classified networks. New and emerging architectures, cease key dates, emerging threats, and Department of Defense (DoD)/Army policy are driving the need to replace currently fielded legacy systems with technologically advanced (network centric/Global Information Grid (GIG) compliant) devices that incorporate Chairman of the Joint Chiefs of Staff and Joint Requirements Oversight Council directed cryptographic standardization, advanced key management and network centric performance capabilities. This program enables DoD to equip the force with critical cryptographic solutions and services during peacetime, wartime, and contingency operations. The program consists of three product families: In-Line Network Encryptors (INE), Link/Trunk Encryption Family (LEF), and Secure Voice (SV).

The AKMI Program is replacing the National Security Agency (NSA) Electronic Key Management System (EKMS) program. As the DoD Key Management Lead, NSA is dictating the change from EKMS to Key Management Infrastructure (KMI) by a sunset date of December 2017. KMI automates the functions of COMSEC electronic key management, control, planning, and distribution. KMI provides an integrated, operational environment that brings essential key management functions in-band. KMI provides an Over the Network Keying (OTNK) solution to support emerging cryptographically modernized systems. KMI supports the Army's ability to communicate and distribute data on the Army's tactical and strategic networks by limiting adversarial access to, and reducing the vulnerability of, Army Command, Control, Communications, Computers, Intelligence (C4I) systems. AKMI is a Non Program of Record (POR) under Product Lead Network Enablers (PL Net E). The AKMI is the Army's implementation of the NSA KMI ACAT IAM program. AKMI supports DoD GIG Net Centric and Crypto Modernization Initiatives and supports emerging requirements transitioned from the Army Key Management System (AKMS). AKMI will continue to support non-modernized legacy equipment until it can be upgraded to operate seamlessly within the AKMI architecture. AKMI will allow the Army to manage, control, plan, and distribute electronic key for the ~1.5M End Cryptographic Units (ECU)s necessary to communicate and distribute data on the Army's tactical and strategic networks. AKMI initial Army Acquisition Program Baseline (APB) was approved 2QFY12. The AKMI System of Systems (SoS) will include the Management Client (MGC) Nodes, Automated Communications Engineering Software (ACES) and Next Generation Load Device (NGLD) Family. Each component of the AKMI SoS is in a different phase of the acquisition cycle. Some components of the AKMI SoS will be retained and adapted from the legacy AKMS SoS while others will be developed, procured and fielded to meet AKMI requirements.

The ECMI procures/retrofits and fields COMSEC embedded within Army radios to ensure communications remain secure by operating with modern cryptographic algorithms and keys. Tactical radios using embedded cryptographic systems will no longer be able to communicate securely after Cease Key dates documented in the Chairman of the Joint Chiefs of Staff instruction (CJCSI) 6510. ECMI will provide

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:**<br>B96000 / Communications Security (COMSEC) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0303140A |
| **Line Item MDAP/MAIS Code:** N/A | | |

Warfighters with continued secure communications (i.e., encrypted data and voice), by modernizing Army tactical radios allowing them to utilize cryptographic capabilities by implementing modern algorithms. Failure to comply will result in vulnerabilities to classified data transmissions, or an inability to communicate at classified levels.

The Approved Acquisition Objective (AAO) for AKMI is 855 MGCs and 174,522 for AKMS (Fill Devices); Crypto Systems is 271,945 (Encryption Devices).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 6,991 | 11,641 | 10,621 | - | 10,621 | 4,729 | 27,565 | 42,926 | 27,126 |
| | Total Obligation Authority | 65.216 | 117.313 | 86.305 | - | 86.305 | 86.366 | 211.049 | 257.929 | 192.838 |
| ANG | Quantity | 1,997 | 3,324 | 3,036 | - | 3,036 | 1,351 | 7,875 | 12,257 | 7,747 |
| | Total Obligation Authority | 4.899 | 10.668 | 14.350 | - | 14.350 | 9.189 | 26.006 | 35.899 | 21.073 |
| AR | Quantity | 999 | 1,662 | 1,518 | - | 1,518 | 676 | 3,938 | 6,128 | 3,874 |
| | Total Obligation Authority | 2.142 | 5.303 | 7.149 | - | 7.149 | 4.596 | 13.004 | 17.944 | 10.538 |
| **Total: Secondary Distribution** | **Quantity** | **9,987** | **16,627** | **15,175** | **-** | **15,175** | **6,756** | **39,378** | **61,311** | **38,747** |
| | **Total Obligation Authority** | **72.257** | **133.284** | **107.804** | **-** | **107.804** | **100.151** | **250.059** | **311.772** | **224.449** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303140A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS) | P-5a | A | | 1,748 / 22.485 | 1,455 / 16.206 | 5,999 / 66.692 | 6,136 / 49.441 | - / - | 6,136 / 49.441 |
| P-5 | B96004 / KEY MANAGEMENT INFRASTRUCTURE | P-5a, P-21 | | | 7,217 / 44.490 | 8,532 / 45.678 | 10,628 / 63.578 | 9,039 / 58.363 | - / - | 9,039 / 58.363 |
| P-5 | B96006 / Embedded Cryptographic Modernization | | | | - / - | - / - | - / 3.014 | - / - | - / - | - / - |
| P-5 | BA1201 / TSEC - Army Key Mgt Sys (AKMS) | | | | - / 399.269 | - / 10.373 | - / - | - / - | - / - | - / - |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **8,965 / 466.244** | **9,987 / 72.257** | **16,627 / 133.284** | **15,175 / 107.804** | **- / -** | **15,175 / 107.804** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
In FY 2018, the COMSEC funding of $107.804 Million supports below sub-programs.

CS: FY 2018 base procurement dollars in the amount of $49.441 million will be primarily utilized to procure modern In-Line Network Encryption (INE) and Secure Voice (SV) devices. $28.802 of the $49.441 million FY18 Base procurement dollars will be used to procure VIPER Variants, KSV-21 cards and various INE family devices. Currently there is a large installed base of Secure Terminal Equipment (STE) and Tactical STE devices that require KSV-21 cards for secure communication. KSV-21 Cards are a consumable item with a seven year useful life. 2,500 of these cards are coming up for replacement in the next 3 years.

AKMI: FY 2018 base procurement dollars in the amount of $58.363 million supports the procurement, fielding, depot support and New Equipment Training (NET) for KMI MGCs, NGLD fill devices, and ACES laptops. It also provides associated government and contractor engineering support, Post Production Deployment Software Support (PPDSS), system technical and software support of the AKMI SoS components. The PPDSS contract supports AKMI SoS components, operational support for deployed and sustaining forces, technical engineering & support, associated government and contractor engineering support, and the development and updating of Web based training for AKMI components to augment in-class delta and sustainment training. The PPDSS effort is an OPA requirement because of the new capabilities that are required to be implemented into key management products based on the evolution of the Key Management infrastructure. The changes in capability do not allow the operational support to be transitioned to sustainment. The PPDSS contract for all key management products has been optimized and requirements continuously assessed to ensure that it is fiscally sound. Funding enables modifications in the AKMI SoS to enable KMI standards compliance and to support legacy and emerging ECUs ability to communicate within the KMI architecture. The PPDSS contract for all key management products has been optimized and requirements continuously assessed to ensure that it is fiscally sound. Support for the AKMI SoS is critical until KMI is fully operational and fielded. The current SKL fleet will require support through at least 2025. Modernization of fill devices and emerging radio planning and configuration requirements are supported through this funding line.

ECMI: No funding in FY 2018.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 1,748 | 1,455 | 5,999 | 6,136 | - | 6,136 |
| Gross/Weapon System Cost *($ in Millions)* | 22.485 | 16.206 | 66.692 | 49.441 | - | 49.441 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 22.485 | 16.206 | 66.692 | 49.441 | - | 49.441 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **22.485** | **16.206** | **66.692** | **49.441** | **-** | **49.441** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 12.863 | 11.138 | 11.117 | 8.058 | - | 8.058 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| IN-LINE NETWORK ENCRYPTORS (INE)(†) | 8.601 | 597 | 5.135 | 4.314 | 1,400 | 6.039 | 4.950 | 3,904 | 19.324 | 5.516 | 4,036 | 22.264 | - | - | - | 5.516 | 4,036 | 22.264 |
| SECURE VOICE(†) | 8.600 | 100 | 0.860 | 14.909 | 55 | 0.820 | 12.036 | 2,095 | 25.215 | 3.114 | 2,100 | 6.540 | - | - | - | 3.114 | 2,100 | 6.540 |
| *Subtotal: Recurring Cost* | - | - | *5.995* | - | - | *6.860* | - | - | *44.540* | - | - | *28.802* | - | - | - | - | - | *28.802* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***5.995*** | **-** | **-** | ***6.860*** | **-** | **-** | ***44.540*** | **-** | **-** | ***28.802*** | **-** | **-** | **-** | **-** | **-** | ***28.802*** |
| Package Fielding Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| ARMY-WIDE CRYPTO NETWORK STANDARDIZATION | - | - | 1.788 | - | - | 0.875 | - | - | 2.286 | - | - | - | - | - | - | - | - | - |
| PRODUCT SUPPORT/FIELDING | - | - | 8.090 | - | - | 5.047 | - | - | 9.771 | - | - | 8.535 | - | - | - | - | - | 8.535 |
| *Subtotal: Recurring Cost* | - | - | *9.878* | - | - | *5.922* | - | - | *12.057* | - | - | *8.535* | - | - | - | - | - | *8.535* |
| *Subtotal: Package Fielding Cost* | **-** | **-** | ***9.878*** | **-** | **-** | ***5.922*** | **-** | **-** | ***12.057*** | **-** | **-** | ***8.535*** | **-** | **-** | **-** | **-** | **-** | ***8.535*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 2.994 | - | - | 1.515 | - | - | 3.544 | - | - | 6.375 | - | - | - | - | - | 6.375 |
| Contractor Management | - | - | 0.578 | - | - | 0.293 | - | - | 0.598 | - | - | 0.608 | - | - | - | - | - | 0.608 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Support - Program Management Cost* | - | - | ***3.572*** | - | - | ***1.808*** | - | - | ***4.142*** | - | - | ***6.983*** | - | - | - | - | - | ***6.983*** |
| Support - Training Cost | | | | | | | | | | | | | | | | | | |
| Equipment | - | - | 3.040 | - | - | 1.617 | - | - | 5.954 | - | - | 5.119 | - | - | - | - | - | 5.119 |
| *Subtotal: Support - Training Cost* | - | - | ***3.040*** | - | - | ***1.617*** | - | - | ***5.954*** | - | - | ***5.119*** | - | - | - | - | - | ***5.119*** |
| **Gross/Weapon System Cost** | **12.863** | **1,748** | **22.485** | **11.138** | **1,455** | **16.206** | **11.117** | **5,999** | **66.692** | **8.058** | **6,136** | **49.441** | - | - | - | **8.058** | **6,136** | **49.441** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 1,018 | 4,199 | 4,294 | - | 4,294 |
| | Total Obligation Authority | 14.652 | 56.027 | 36.569 | - | 36.569 |
| ANG | Quantity | 291 | 1,200 | 1,228 | - | 1,228 |
| | Total Obligation Authority | 1.036 | 7.131 | 8.599 | - | 8.599 |
| AR | Quantity | 146 | 600 | 614 | - | 614 |
| | Total Obligation Authority | 0.518 | 3.534 | 4.273 | - | 4.273 |
| **Total: Secondary Distribution** | **Quantity** | **1,455** | **5,999** | **6,136** | **-** | **6,136** |
| | **Total Obligation Authority** | **16.206** | **66.692** | **49.441** | **-** | **49.441** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96002 / CRYPTOGRAPHIC SYSTEMS (CRYPTO SYS) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| IN-LINE NETWORK ENCRYPTORS (INE) | | 2016 | NSA / FORT MEADE | C / IDDQ | NSA, FT MEADE, MD | Jan 2016 | Jan 2017 | 1,400 | 4.310 | Y | | |
| IN-LINE NETWORK ENCRYPTORS (INE) | | 2017 | NSA / FORT MEADE | C / IDIQ | NSA, FT MEADE, MD | Jan 2017 | Jan 2018 | 3,904 | 4.950 | Y | | |
| IN-LINE NETWORK ENCRYPTORS (INE) | | 2018 | NSA / FORT MEADE | C / IDIQ | NSA, FT MEADE, MD | Jan 2018 | Jan 2019 | 4,036 | 5.520 | Y | | |
| SECURE VOICE | | 2017 | NSA / FORT MEADE | C / IDIQ | NSA, FT MEADE, MD | Jan 2017 | Jan 2018 | 2,095 | 12.040 | Y | | |
| SECURE VOICE | | 2018 | NSA / FORT MEADE | C / IDIQ | NSA, FT MEADE, MD | Jan 2018 | Jan 2019 | 2,100 | 3.110 | Y | | |

**Remarks:**
The items procured are COTS or GOTS.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96004 / KEY MANAGEMENT INFRASTRUCTURE |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 7,217 | 8,532 | 10,628 | 9,039 | - | 9,039 |
| Gross/Weapon System Cost *($ in Millions)* | 44.490 | 45.678 | 63.578 | 58.363 | - | 58.363 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 44.490 | 45.678 | 63.578 | 58.363 | - | 58.363 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **44.490** | **45.678** | **63.578** | **58.363** | **-** | **58.363** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 6.165 | 5.354 | 5.982 | 6.457 | - | 6.457 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| MGC Procurement(†) | 18.313 | 345 | 6.318 | 18.324 | 34 | 0.623 | - | - | - | - | - | - | - | - | - | - | - | - |
| ACES Procurement(†) | - | - | - | 2.525 | 1,348 | 3.404 | 2.525 | 988 | 2.495 | 3.000 | 360 | 1.080 | - | - | - | 3.000 | 360 | 1.080 |
| Fill Device Procurements(†) | 2.511 | 7,072 | 17.758 | 2.525 | 7,150 | 18.054 | 2.525 | 9,640 | 24.341 | 2.709 | 9,693 | 26.258 | - | - | - | 2.709 | 9,693 | 26.258 |
| NGLD S | - | - | - | - | - | - | - | - | - | 2.000 | 1,246 | 2.492 | - | - | - | 2.000 | 1,246 | 2.492 |
| Engineering Recurring | - | - | - | - | - | 2.781 | - | - | 16.708 | - | - | 3.479 | - | - | - | - | - | 3.479 |
| *Subtotal: Recurring Cost* | - | - | *24.076* | - | - | *24.861* | - | - | *43.544* | - | - | *33.309* | - | - | - | - | - | *33.309* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***24.076*** | **-** | **-** | ***24.861*** | **-** | **-** | ***43.544*** | **-** | **-** | ***33.309*** | **-** | **-** | **-** | **-** | **-** | ***33.309*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Post Deplayment Software Support/NET | - | - | 10.366 | - | - | 3.796 | - | - | 7.529 | - | - | 10.100 | - | - | - | - | - | 10.100 |
| *Subtotal: Recurring Cost* | - | - | *10.366* | - | - | *3.796* | - | - | *7.529* | - | - | *10.100* | - | - | - | - | - | *10.100* |
| *Subtotal: Software Cost* | **-** | **-** | ***10.366*** | **-** | **-** | ***3.796*** | **-** | **-** | ***7.529*** | **-** | **-** | ***10.100*** | **-** | **-** | **-** | **-** | **-** | ***10.100*** |
| Package Fielding Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | 1.026 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *1.026* | - | - | *0.750* | - | - | - | - | - | *0.750* |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96004 / KEY MANAGEMENT INFRASTRUCTURE |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Package Fielding Cost* | - | - | - | - | - | - | - | - | 1.026 | - | - | 0.750 | - | - | - | - | - | 0.750 |
| Logistics Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Depot Support | - | - | 1.325 | - | - | 0.311 | - | - | 0.314 | - | - | 0.321 | - | - | - | - | - | 0.321 |
| *Subtotal: Recurring Cost* | - | - | 1.325 | - | - | 0.311 | - | - | 0.314 | - | - | 0.321 | - | - | - | - | - | 0.321 |
| *Subtotal: Logistics Cost* | - | - | 1.325 | - | - | 0.311 | - | - | 0.314 | - | - | 0.321 | - | - | - | - | - | 0.321 |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 3.215 | - | - | 4.932 | - | - | 2.957 | - | - | 3.349 | - | - | - | - | - | 3.349 |
| Contractor Management | - | - | 3.254 | - | - | 4.441 | - | - | 2.580 | - | - | 3.489 | - | - | - | - | - | 3.489 |
| *Subtotal: Support - Program Management Cost* | - | - | 6.469 | - | - | 9.373 | - | - | 5.537 | - | - | 6.838 | - | - | - | - | - | 6.838 |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | 2.254 | - | - | 5.390 | - | - | 3.941 | - | - | 5.121 | - | - | - | - | - | 5.121 |
| *Subtotal: Support - System Engineering Cost* | - | - | 2.254 | - | - | 5.390 | - | - | 3.941 | - | - | 5.121 | - | - | - | - | - | 5.121 |
| Support - System Test and Evaluation Cost | | | | | | | | | | | | | | | | | | |
| Test and Evaluation Support | - | - | - | - | - | 0.312 | - | - | - | - | - | 0.270 | - | - | - | - | - | 0.270 |
| *Subtotal: Support - System Test and Evaluation Cost* | - | - | - | - | - | 0.312 | - | - | - | - | - | 0.270 | - | - | - | - | - | 0.270 |
| Support - Training Cost | | | | | | | | | | | | | | | | | | |
| Services | - | - | - | - | - | 1.634 | - | - | 1.687 | - | - | 1.650 | - | - | - | - | - | 1.650 |
| *Subtotal: Support - Training Cost* | - | - | - | - | - | 1.634 | - | - | 1.687 | - | - | 1.650 | - | - | - | - | - | 1.650 |
| **Gross/Weapon System Cost** | **6.165** | **7,217** | **44.490** | **5.354** | **8,532** | **45.678** | **5.982** | **10,628** | **63.578** | **6.457** | **9,039** | **58.363** | **-** | **-** | **-** | **6.457** | **9,039** | **58.363** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 5,973 | 7,442 | 6,327 | - | 6,327 |
| | Total Obligation Authority | 40.191 | 58.273 | 49.736 | - | 49.736 |
| ANG | Quantity | 1,706 | 2,124 | 1,808 | - | 1,808 |
| | Total Obligation Authority | 3.863 | 3.536 | 5.751 | - | 5.751 |
| AR | Quantity | 853 | 1,062 | 904 | - | 904 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96004 / KEY MANAGEMENT INFRASTRUCTURE |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| | Total Obligation Authority | 1.624 | 1.769 | 2.876 | - | 2.876 |
| **Total: Secondary Distribution** | **Quantity** | **8,532** | **10,628** | **9,039** | **-** | **9,039** |
| | **Total Obligation Authority** | **45.678** | **63.578** | **58.363** | **-** | **58.363** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96004 / KEY MANAGEMENT INFRASTRUCTURE |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MGC Procurement | | 2014 | NSA / Ft. Meade MD | MIPR | Linthicum, MD | Mar 2014 | Mar 2015 | 200 | 16.885 | Y | | |
| MGC Procurement | | 2015 | NSA / Ft. Meade MD | MIPR | Linthicum, MD | Mar 2015 | Mar 2016 | 145 | 18.166 | Y | | |
| MGC Procurement | | 2016 | NSA / Ft. Meade MD | MIPR | Linthicum, MD | Mar 2016 | Mar 2017 | 34 | 18.320 | Y | | |
| ACES Procurement | | 2017 | TBD / TBD | C / IDIQ | General Dynamics Taunton, MA | Jan 2017 | Jan 2018 | 988 | 2.530 | Y | | |
| ACES Procurement | | 2018 | TBD / TBD | C / IDIQ | General Dynamics Taunton, MA | Jan 2018 | Jan 2018 | 360 | 3.000 | Y | | |
| Fill Device Procurements(†) | | 2016 | SNC / Sparks NV | C / IDIQ | Spark, NV | Feb 2016 | Nov 2016 | 7,150 | 2.530 | Y | | |
| Fill Device Procurements(†) | | 2017 | SNC / Sparks NV | C / IDIQ | Spark, NV | May 2017 | Nov 2017 | 9,640 | 2.530 | Y | | |
| Fill Device Procurements(†) | | 2018 | SNC / Sparks NV | C / IDDQ | Spark, NV | Feb 2018 | Nov 2018 | 9,693 | 2.710 | Y | | |

(†) indicates the presence of a P-21

**Remarks:**
The items - ACES & MGCs procurements are COTS or GOTS.

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96004 / KEY MANAGEMENT INFRASTRUCTURE |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2014 | | | | | | | | | | | | Fiscal Year 2015 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2014 | | | | | | | | | | | | Calendar Year 2015 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2013 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Fill Device Procurements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 7072 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 7,150 | 0 | 7,150 | | | | | | | | | | | | | | | | | | | | | | | | | 7,150 |
| | 1 | 2017 | ARMY | 9,640 | 0 | 9,640 | | | | | | | | | | | | | | | | | | | | | | | | | 9,640 |
| | 1 | 2018 | ARMY | 9,693 | 0 | 9,693 | | | | | | | | | | | | | | | | | | | | | | | | | 9,693 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96004 / KEY MANAGEMENT INFRASTRUCTURE |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Fill Device Procurements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 7072 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 7,150 | 0 | 7,150 | | | | | A - | - | - | - | - | - | - | - | - | 2,000 | 2,000 | 2,000 | 1,150 | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 9,640 | 0 | 9,640 | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | 9,640 |
| | 1 | 2018 | ARMY | 9,693 | 0 | 9,693 | | | | | | | | | | | | | | | | | | | | | | | | | 9,693 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96004 / KEY MANAGEMENT INFRASTRUCTURE |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Fill Device Procurements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 7072 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 7,150 | 7,150 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 9,640 | 0 | 9,640 | - | 2,000 | 2,000 | 2,000 | 2,000 | 1,640 | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 9,693 | 0 | 9,693 | | | | | A - | - | - | - | - | - | - | - | - | 2,000 | 2,000 | 2,000 | 2,000 | 1,693 | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 64 | **P-1 Line Item Number / Title:**<br>B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:**<br>B96004 / KEY MANAGEMENT INFRASTRUCTURE |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | SNC - Sparks NV | 2,000 | 2,000 | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** B96006 / Embedded Cryptographic Modernization |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 3.014 | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 3.014 | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **3.014** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | - | - | - | - | - | - | 3.014 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - System Engineering Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***3.014*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **3.014** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | 3.014 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **3.014** | **-** | **-** | **-** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** BA1201 / TSEC - Army Key Mgt Sys (AKMS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 399.269 | 10.373 | - | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 399.269 | 10.373 | - | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **399.269** | **10.373** | **-** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Simple Key Loader | 2.500 | 10,739 | 26.847 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post Deployment Software Support (SKL) | - | - | 10.588 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post Deployment Software Support (ACES) | - | - | 5.469 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SKL Support | - | - | 13.548 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ACES/LCMS Workstation | - | - | 35.920 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Depot Support | - | - | 10.338 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FY08 Simple Key Loader Supplemental | 1.687 | 41,289 | 69.654 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| J-TNT | 3.757 | 766 | 2.878 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PDSS/ Helpdesk Support | - | - | 14.377 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *189.620* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***189.620*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 69.828 | - | - | 2.615 | - | - | - | - | - | - | - | - | - | - | - | - |
| Contractor Management | - | - | 74.257 | - | - | 2.566 | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 64 | **P-1 Line Item Number / Title:** B96000 / Communications Security (COMSEC) | **Item Number / Title [DODIC]:** BA1201 / TSEC - Army Key Mgt Sys (AKMS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***144.085*** | **-** | **-** | ***5.181*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - System Technical Support (STS) Cost | | | | | | | | | | | | | | | | | | |
| System Technical Support (STS) | - | - | 53.206 | - | - | 4.280 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - System Technical Support (STS) Cost* | **-** | **-** | ***53.206*** | **-** | **-** | ***4.280*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Training Cost | | | | | | | | | | | | | | | | | | |
| Equipment | - | - | 12.357 | - | - | 0.912 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - Training Cost* | **-** | **-** | ***12.357*** | **-** | **-** | ***0.912*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **399.269** | **-** | **-** | **10.373** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 10.373 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **10.373** | **-** | **-** | **-** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:**<br>B63000 / Defensive CYBER Operations |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0605041A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 53.632 | 53.436 | - | 53.436 | 55.203 | 54.898 | 53.926 | 84.902 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 53.632 | 53.436 | - | 53.436 | 55.203 | 54.898 | 53.926 | 84.902 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **53.632** | **53.436** | **-** | **53.436** | **55.203** | **54.898** | **53.926** | **84.902** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This budget line is a continuation of CYBER efforts originally resourced in Information System Security Program, TA0600.

This budget line does not procure weapons systems or produce end items for weapons systems. All IT procurements consist of commercial off-the-shelf (COTS) solutions; all quantities and unit costs vary by system configuration and site.

The Army's Defensive Cyberspace Operations (DCO) activities are a construct of active cyberspace defenses which provide synchronized, real-time capability to discover, detect, analyze, and mitigate threats and vulnerabilities to DoD networks and systems. They provide initial capabilities that enable passive and active cyberspace defense operations to preserve friendly cyberspace capabilities and protect data, networks, net-centric capabilities, and other designated systems. DCO consists of the following critical capabilities:
-DCO-Infrastructure (DCO-I) Tactical and Enterprise (hardware and software baseline for remote cyber maneuver based on Defense Advanced Research Projects Agency (DARPA) Plan X)
-Cyber Protection Team (CPT) support (tools that reside inside DCO-I)
-Web Vulnerability Scanning (software baseline to secure key cyber terrain and protect DoD websites)
-Big Data Analytics (leverage Defense Information System Agency (DISA) Acropolis analytics)

Defensive Cyber teams design, build, and test advanced Cyber tools and infrastructure than enables active defense of the network from tactical Command Posts up through Post Camp and Station Home Station Mission Command. This capability will enable integration of the Cyber Mission Force with Regional and Local Cyber Network Defense elements. These tools will provide cutting edge hardware and software, integrated with existing infrastructure and tools to facilitate Active Defensive Cyber operations. DCO responds to unauthorized activity or alerts/threat information against the Army enterprise, and leverages intelligence, counterintelligence, law enforcement, and other military capabilities. It includes outmaneuvering adversaries taking or about to take offensive actions against defended networks, or otherwise responding to internal and external cyberspace threats. Internal defense measures include mission assurance actions to dynamically reestablish, re-secure, reroute, reconstitute, or isolate degraded or compromised local networks to ensure sufficient cyberspace access for commanders.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:**<br>B63000 / Defensive CYBER Operations | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0605041A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B63103 / DEFENSIVE CYBER TOOLS | P-5a | | | - / - | - / - | - / 53.632 | - / 53.436 | - / - | - / 53.436 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / -** | **- / -** | **- / 53.632** | **- / 53.436** | **- / -** | **- / 53.436** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 DCO Enterprise Infrastructure Base procurement dollars in the amount of $53.436 million supports the procurement of equipment, engineering, integration, configuration management, testing, training, accreditation, and fielding of defensive cyberspace infrastructure and capabilities as outlined in the US Army Training and Doctrine Command (TRADOC) Information Systems Capability Development Document (IS CDD) for DCO; US Army Cyber Command (ARCYBER) Operational Needs Statement (ONS) 14-19545 for DCO-I dated 6 Jan 14; ONS 14-20079 for CPT Support; ONS 14-19420 for Web Scanning dated 29 Oct 13; and ONS 14-19419 for Big Data Analytics dated 29 Oct 13.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64 | P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations | Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 53.632 | 53.436 | - | 53.436 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 53.632 | 53.436 | - | 53.436 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **53.632** | **53.436** | **-** | **53.436** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| BIG DATA SOFTWARE(†) | - | - | - | - | - | - | 1,072.600 | 5 | 5.363 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| DCO-I ENTERPRISE ENGINEERING | - | - | - | - | - | - | 3,218.000 | 1 | 3.218 | - | - | 13.800 | - | - | - | - | - | 13.800 |
| DCO-I ENTERPRISE HARDWARE(†) | - | - | - | - | - | - | 5,685.000 | 5 | 28.425 | - | - | 13.800 | - | - | - | - | - | 13.800 |
| CPT SOFTWARE(†) | - | - | - | - | - | - | 2,788.800 | 5 | 13.944 | - | - | 15.590 | - | - | - | - | - | 15.590 |
| WEB VULNERABILITY SOFTWARE(†) | - | - | - | - | - | - | 536.400 | 5 | 2.682 | - | - | 8.246 | - | - | - | - | - | 8.246 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *53.632* | - | - | *53.436* | - | - | - | - | - | *53.436* |
| *Subtotal: Flyaway Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***53.632*** | **-** | **-** | ***53.436*** | **-** | **-** | **-** | **-** | **-** | ***53.436*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **53.632** | **-** | **-** | **53.436** | **-** | **-** | **-** | **-** | **-** | **53.436** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 64 | P-1 Line Item Number / Title: B63000 / Defensive CYBER Operations | Item Number / Title [DODIC]: B63103 / DEFENSIVE CYBER TOOLS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BIG DATA SOFTWARE | | 2017 | CHESS / ACC-RI | C / IDIQ | ACC-RI, IL | Jan 2017 | Feb 2017 | 5 | 1,072.600 | N | | |
| DCO-I ENTERPRISE HARDWARE | | 2017 | CHESS / ACC-RI | C / IDIQ | ACC-RI, IL | Jan 2017 | Feb 2017 | 5 | 5,685.000 | N | | |
| DCO-I ENTERPRISE HARDWARE | | 2018 | CHESS / ACC-RI | C / IDIQ | ACC-RI, IL | Mar 2018 | Apr 2018 | 0 | 0.000 | | | |
| CPT SOFTWARE | | 2017 | CHESS / ACC-RI | C / IDIQ | ACC-RI, IL | Jan 2017 | Feb 2017 | 5 | 2,788.800 | | | |
| CPT SOFTWARE | | 2018 | CHESS / ACC-RI | C / IDDQ | ACC-RI. IL | Feb 2018 | Mar 2018 | 0 | 0.000 | | | |
| WEB VULNERABILITY SOFTWARE | | 2017 | CHESS / ACC-RI | C / IDIQ | ACC-RI, IL | Jan 2017 | Feb 2017 | 5 | 536.400 | | | |
| WEB VULNERABILITY SOFTWARE | | 2018 | CHESS / ACC-RI | C / IDIQ | ACC-RI, IL | Feb 2018 | Mar 2018 | 0 | 0.000 | | | |

**Remarks:**
Commercial-Off-The-Shelf (COTS) products will be procured from the Computer Hardware Enterprise Software and Solutions (CHESS) contract. CHESS is the Army's designated primary source for commercial information technology (IT). CHESS provides a no-fee flexible procurement strategy through which an Army user may procure COTS IT hardware, software and services via an e-commerce based process. CHESS offers simple, straightforward contract vehicles through its online Army e-commerce ordering system, the IT e-mart. These contracts provide continuous vendor competition for best value and consolidation of requirements to maximize cost avoidance and leverage the Army's buying power. Contracts will be worked through Army Contracting Command Rock Island (ACC-RI).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:** B89000 / Insider Threat Program - Unit Activity Monitoring |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 0.690 | - | 0.690 | 0.330 | 0.756 | 1.762 | 0.360 | - | 3.898 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 0.690 | - | 0.690 | 0.330 | 0.756 | 1.762 | 0.360 | - | 3.898 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **0.690** | **-** | **0.690** | **0.330** | **0.756** | **1.762** | **0.360** | **-** | **3.898** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This budget line does not procure weapons systems or produce end items for weapons systems. All IT procurements consist of COTS solutions.

Army user activity monitoring (UAM) operations are conducted in support of the Army's insider threat program. User activity monitoring is the technical capability to observe and record the actions and activities of an individual, at any time, on any device access US Government information in order to detect insider threats and to support authorized investigations. The OPA program supports three objectives. First, it provides advanced analytics (including user behavior modeling software) to increase UAM analysis effectiveness and efficiency. Second, it provides additional system hardware, and third, it support the procurement of the next generation Army UAM tool in FY21. Advanced analytics procurement includes commercial-of-the-shelf (COTS) hardware and software, and open source software. This capability will increase UAM analysts' effectiveness and efficiency. The primary objective is to employ COTS technology to identify potential insider threats by monitoring behavior between users, user interactions with data and network capabilities (especially in regards to privileged users), and monitoring user compliance with network and data standards and policies.

**Justification:**

FY 2018 UAM Automation/Analytics Base procurement dollars in the amount of $0.690 million support the procurement, installation, assessment and authorization of commercial-off-the-shelf (COTS) technology to enhance Army UAM analysis effectiveness and efficiency in support of the Army's Insider Threat Program. Army executes its insider threat program in accordance with Executive Order 13587, Structural Reforms to Improve the Security of Classified Networks and the Responsible Sharing and Safeguarding of Classified Information, (Reference b) dated 7 October 2011; Presidential Memorandum, National Insider Threat Policy and Minimum Standards for Executive Branch Insider Threat Programs, dated 21 November 2012; National Defense Authorization Act for Fiscal Year 2012, Section 922, Insider Threat Detection; and Army Directive 2013-18 (Army Insider Threat Program) dated 31 July 2013.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 64: Information Security | **P-1 Line Item Number / Title:** B65010 / Persistent Cyber Training Environment |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 4 | - | 4 | 4 | 4 | 4 | - | - | 16 |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 4.000 | - | 4.000 | 3.000 | 3.000 | 3.000 | - | - | 13.000 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 4.000 | - | 4.000 | 3.000 | 3.000 | 3.000 | - | - | 13.000 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **4.000** | **-** | **4.000** | **3.000** | **3.000** | **3.000** | **-** | **-** | **13.000** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 1,000.000 | - | 1,000.000 | 750.000 | 750.000 | 750.000 | - | - | 812.500 |

## Description:

Funding provides technical subject matter expertise, infrastructure and networks for the Persistent Cyber Training Environment (PCTE), supporting top secret and unclassified instance capability across the Department of Defense (DOD). The program will provide a combination of loosely affiliated or independent virtual environments with varied capabilities that are scalable and extensible (the systemic measure to extend the ability of a system and the level of effort required to implement the extension through the addition of new functionality or through modification of existing functionality). Multiple DOD Component cyber ranges are expanding in varying stages of capability and capacity, and require a joint or standard approach for consistency and applicability. PCTE will inform Cyber Range architecture to allow a mutually extensible network of capability at multiple organizational levels. The Cyber Mission Forces Persistent Training Environment Capability Based Assessment (CBA) identified requirements in PCTE Event Planning, Event Assessment, and Connectivity.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | 4 | - | 4 | 4 | 4 | 4 | - |
| | Total Obligation Authority | - | - | 4.000 | - | 4.000 | 3.000 | 3.000 | 3.000 | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **4** | **-** | **4** | **4** | **4** | **4** | **-** |
| | **Total Obligation Authority** | **-** | **-** | **4.000** | **-** | **4.000** | **3.000** | **3.000** | **3.000** | **-** |

**Justification:**

FY18 base procurement in the amount of $4.000 million supports the identification and resolution of gaps in connectivity across the Cyber Service component ranges. Site surveys will analyze the compatibility of cyber ranges and cyber mission forces' training sites. The identified shortfalls will be prioritized and satisfied with the available procurement funding. Improved connectivity will include the procurement of transport, compute capability along with any associated operating systems. The connectivity hardware and Operating System (OS) will provide a cloud-like environment which allows the Persistent Cyber Training Environment (PCTE) to utilize available compute, storage, and application resources across all the cyber ranges.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications | **P-1 Line Item Number / Title:** BU4160 / Base Support Communications |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 704.848 | 16.082 | 27.452 | 43.751 | - | 43.751 | 42.168 | 40.265 | 40.331 | 40.069 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 704.848 | 16.082 | 27.452 | 43.751 | - | 43.751 | 42.168 | 40.265 | 40.331 | 40.069 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **704.848** | **16.082** | **27.452** | **43.751** | **-** | **43.751** | **42.168** | **40.265** | **40.331** | **40.069** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Land Mobile Radio (LMR) systems are commercial solutions that provide mobile and portable communications for garrison public safety, force protection, homeland security, and facilities maintenance operations. The primary users of LMR are emergency response personnel, including installation military police, fire departments, and medical personnel. These personnel use LMR to synchronize emergency response efforts and for critical communications support during dispatch, mobilization, deployment, and operations. Without adequate communications capabilities that readily enable coordination, maximize the use of scarce radio spectrum, and provide secure voice transmissions, emergency responders and base support personnel would be significantly constrained in their ability to perform key functions. LMR provides Army interoperability with state and local fire protection and law enforcement agencies critical to ensuring effective incident response via mutual aid agreements. The LMR Program modernization of installation radio systems enables compliance with the National Telecommunications and Information Administration (NTIA) mandated migration from wideband LMR systems. LMR systems are key components of the Army Enterprise used to provide a seamless communications network in support of base level communications and infrastructure.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 72: Comm - Long Haul Communications | **P-1 Line Item Number / Title:**<br>BU4160 / Base Support Communications |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | BU4160 / Base Support Communications | P-5a | | | - / 704.848 | - / 16.082 | - / 27.452 | - / 43.751 | - / - | - / 43.751 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 704.848** | **- / 16.082** | **- / 27.452** | **- / 43.751** | **- / -** | **- / 43.751** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base funding in the amount of $43.751 million procures the CORE Infrastructure for the CONUS Enterprise LMR System, modernizes Garrison LMR systems at two installations for the CONUS Enterprise LMR system; Soto Cano, Honduras; Japan; and provides contractor support. Existing systems do not meet DoD and Army standards, are obsolete, are no longer supported by the manufacturer, and/ or are non-compliant with the National Telecommunications and Information Administration (NTIA) spectrum efficiency mandate. Power projection and power support Army installations across the continental US (CONUS) and the Europe and Pacific Area of Operations rely on base support LMR systems as a primary means to support force protection, public safety, installation management, and homeland security missions.

In accordance with Sections 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 72 | **P-1 Line Item Number / Title:** BU4160 / Base Support Communications | **Item Number / Title [DODIC]:** BU4160 / Base Support Communications |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 704.848 | 16.082 | 27.452 | 43.751 | - | 43.751 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 704.848 | 16.082 | 27.452 | 43.751 | - | 43.751 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **704.848** | **16.082** | **27.452** | **43.751** | **-** | **43.751** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Commercial LMR Systems(†) | 675,935.000 | 1 | 675.935 | 6,168.000 | 2 | 12.336 | 4,227.000 | 5 | 21.135 | 8,150.200 | 5 | 40.751 | - | - | - | 8,150.200 | 5 | 40.751 |
| Interim Contractor Support(†) | - | - | - | 755.000 | 2 | 1.510 | 415.000 | 5 | 2.075 | - | - | - | - | - | - | - | - | - |
| Engineering and Program Management(†) | 28,913.000 | 1 | 28.913 | 1,118.000 | 2 | 2.236 | 4,242.000 | 1 | 4.242 | 3,000.000 | 1 | 3.000 | - | - | - | 3,000.000 | 1 | 3.000 |
| *Subtotal: Non Recurring Cost* | - | - | *704.848* | - | - | *16.082* | - | - | *27.452* | - | - | *43.751* | - | - | - | - | - | *43.751* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***704.848*** | **-** | **-** | ***16.082*** | **-** | **-** | ***27.452*** | **-** | **-** | ***43.751*** | **-** | **-** | **-** | **-** | **-** | ***43.751*** |
| **Gross/Weapon System Cost** | **-** | **-** | **704.848** | **-** | **-** | **16.082** | **-** | **-** | **27.452** | **-** | **-** | **43.751** | **-** | **-** | **-** | **-** | **-** | **43.751** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 72 | P-1 Line Item Number / Title: BU4160 / Base Support Communications | Item Number / Title [DODIC]: BU4160 / Base Support Communications |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Commercial LMR Systems | | 2016 | TBD / . | C / FFP | ACC RI, Rock Island, IL | Aug 2016 | Sep 2016 | 1 | 6,169.000 | | | |
| Commercial LMR Systems - 2 | | 2016 | TBD / . | C / FFP | ACC RI, Rock Island, IL | Aug 2016 | Sep 2016 | 1 | 6,168.000 | | | |
| Commercial LMR Systems | | 2017 | TBD / . | C / FFP | ACC RI, Rock Island, IL | May 2017 | Jun 2017 | 1 | 4,000.000 | | | |
| Commercial LMR Systems - 2 | | 2017 | TBD / . | C / FFP | ACC RI, Rock Island, IL | May 2017 | Jun 2017 | 1 | 4,000.000 | | | |
| Commercial LMR Systems - 3 | | 2017 | TBD / . | C / FFP | ACC RI, Rock Island, IL | May 2017 | Jun 2017 | 2 | 4,747.000 | | | |
| Commercial LMR Systems - 4 | | 2017 | TBD / . | C / FFP | ACC RI, Rock Island, IL | May 2017 | Jun 2017 | 1 | 4,747.000 | | | |
| Commercial LMR Systems | | 2018 | TBD / . | C / FFP | ACC RI, Rock Island, IL | Apr 2018 | May 2018 | 5 | 8,150.200 | | | |
| Interim Contractor Support | | 2016 | ISEC / Ft. Detrick, MD | C / FFP | ISEC, Fort Detrick, MD | Aug 2016 | Sep 2016 | 2 | 755.000 | N | | |
| Interim Contractor Support | | 2017 | ISEC / Ft. Detrick, MD | C / FFP | ISEC, Fort Detrick, MD | Apr 2017 | May 2017 | 5 | 415.000 | | | |
| Engineering and Program Management | | 2016 | ISEC, Ft. Detrick, MD / . | C / FFP | ISEC, Fort Detrick, MD | Feb 2016 | Mar 2016 | 2 | 1,118.000 | N | | |
| Engineering and Program Management | | 2017 | ISEC / Ft. Detrick, MD | C / FFP | ISEC, Fort Detrick, MD | Apr 2017 | May 2017 | 1 | 4,242.000 | N | | |
| Engineering and Program Management | | 2018 | ISEC / Ft. Detrick, MD | C / FFP | ISEC, Fort Detrick, MD | Apr 2018 | May 2018 | 1 | 3,000.000 | | | |

**Remarks:**
All IT procurements consist of Commercial Off-The-Shelf (COTS) solutions; all quantities and unit costs vary by project, system configuration, and site. PEO EIS - Program Executive Office Enterprise Information Systems; PM DCATS - Project Manager, Defense Communications and Army Transmission Systems; PL LMR - Product Lead, Land Mobile Radios; ACC RI - Army Contracting Command Rock Island; ISEC - Information Systems Engineering Command.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:** BB8650 / Information Systems |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 3 | - | - | - | - | - | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 3,909.776 | 73.037 | 122.055 | 118.101 | - | 118.101 | 76.513 | 96.400 | 68.015 | 42.911 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 3,909.776 | 73.037 | 122.055 | 118.101 | - | 118.101 | 76.513 | 96.400 | 68.015 | 42.911 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **3,909.776** | **73.037** | **122.055** | **118.101** | **-** | **118.101** | **76.513** | **96.400** | **68.015** | **42.911** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 1,303,258.670 | - | - | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:

In accordance with Section 1815 of FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

This budget line does not procure weapons systems or produce end items. All Information Technology (IT) procurements consist of COTS/GOTS solutions; all quantities and unit cost vary by project, system configuration, and site.

This program provides engineering, quality assurance, and Information Systems infrastructure (common user voice, data, video networks) in support of Military Construction Army (MCA) and Sustainment, Restoration, and Modernization (SRM) projects. It supplies non-tactical telecommunications equipment and engineering services for Army base operations. When required due to MCA or SRM projects, this program provides upgrades to regional or Theater Information Systems infrastructure, as well as physical plant infrastructure that directly support those Information Systems assets. This program delivers standardized operational processes and procedures, providing the Army with consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide. In conjunction with MCA or SRM projects, this program also provides funding for organization-specific command and control Information Systems requirements necessary to equip a new or modernized facility to a mission-ready state ahead of the physical relocation of the occupant organization.

PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION:
This program funds organization-specific command and control Information Systems requirements necessary to relocate and equip an organization in conjunction with MCA or SRM projects. These may include specific IT requirements to facilitate connectivity from building infrastructure to end user equipment, items for classrooms, computers, video teleconferencing (VTC) systems, projectors, display/knowledge walls, telephone equipment, and other end user devices to include IT supporting classification above SECRET. This program consolidates individual organizational requirements to provide a deliberate planned programmatic approach to procure mission essential Information Systems equipment.

INFORMATION SYSTEMS (MCA SUPPORT):
This program provides for the worldwide Information Systems infrastructure (common user voice, data, video networks) for the MCA Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, LandWarNet 2020 and Beyond, Unified Capabilities, common user, and physical plant infrastructure to support Information Systems assets. It provides standardized operational processes and procedures, enabling the Army consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:**<br>BB8650 / Information Systems | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

INFORMATION SYSTEMS (CONUS/WESTERN HEM):
This program provides for the worldwide Information Systems infrastructure (common user voice, data, video networks) for the SRM Program. It supplies non-tactical telecommunications equipment and services in support of Army base operations, LandWarNet 2020 and Beyond, Unified Capabilities, common user, and physical plant infrastructure to support Information Systems assets. It provides standardized operational processes and procedures, enabling the Army consistent integration, synchronization, and delivery of voice, data, imagery, applications, and network capabilities down to the individuals in both the operating force and generating force Army-wide.

INFORMATION SYSTEMS (CYBER):
This program provides for the Mission Unique Information Systems requirements supporting the U.S. Army Cyber Command (ARCYBER) Cyber Protection Teams (CPTs). It procures the necessary Information Systems infrastructure, systems, and equipment to fit-out the Cyber Protection Team Operations Facility at Ft. Gordon. The CPT facility will support defensive and offensive cyber missions to protect the Army's critical information networks and systems to ensure the full range of DoD, Combatant Commands, Army Commands, and Homeland Defense cyberspace operations.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:** BB8650 / Information Systems |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION | P-5a | | | 1 / 47.600 | - / 43.034 | - / 92.064 | - / 46.004 | - / - | - / 46.004 |
| P-5 | BB1400 / INFORMATION SYSTEMS (MCA SUPPORT) | P-5a | | | 1 / 2,851.830 | - / 26.341 | - / 20.493 | - / 23.564 | - / - | - / 23.564 |
| P-5 | BB8655 / Information Systems (Cyber) | P-5a | | | - / - | - / - | - / - | - / 38.533 | - / - | - / 38.533 |
| P-5 | BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM) | P-5a | | | 1 / 1,010.346 | - / 3.662 | - / 9.498 | - / 10.000 | - / - | - / 10.000 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **3 / 3,909.776** | **- / 73.037** | **- / 122.055** | **- / 118.101** | **- / -** | **- / 118.101** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION:
FY 2018 Base procurement dollars in the amount of $46.004 million support the procurement of commercial-off-the-shelf (COTS) information systems and IT infrastructure to support command and control, critical mission unique equipment, and end user IT equipment in newly built MCA or renovated SRM facilities. Proponent/Mission IT consolidates individual organizational requirements to provide a deliberate, planned, programmatic approach to procure network transport infrastructure, end-user instruments (including telephones, soft phones, video teleconferencing equipment, computing devices), associated licensing, and secure data switches, gateways, and encryption devices for classified and unclassified connectivity. It also supports information systems for classrooms, computers for traditional business users and Warfighters, video teleconferencing (VTC) systems, projectors, display/knowledge walls, secure telephone equipment, and physical plant infrastructure to support those information system assets. Procurements include network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, implementation, and completion of a multitude of MCA and SRM projects. Installation of the mission unique/end user equipment is dependent upon construction timelines, is the final phase of an MCA or SRM project, and is required to ensure that new/renovated buildings are mission capable and ready for unit/Soldier occupancy.

INFORMATION SYSTEMS (MCA SUPPORT):
FY 2018 Base procurement dollars in the amount of $23.564 million supports the procurement of commercial-off-the-shelf (COTS) Information Systems which support Unified Capability voice/data switches, common user network transport infrastructure, end-user instruments (including telephones, soft phones, video teleconferencing equipment or computing devices), associated licensing, training range connectivity which may include long runs of fiber optics cable, and secure data switches, gateways and encryption devices for classified network connectivity. This funding also procures the network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, and implementation of Information Systems requirements associated with MCA projects. Funding is required to ensure that these projects have all necessary Information Systems infrastructure and equipment for soldier readiness of the facilities.

INFORMATION SYSTEMS (CONUS/WESTERN HEM):
FY 2018 Base procurement dollars in the amount of $10.000 million supports the procurement of commercial-off-the-shelf information (COTS) systems which support Unified Capability voice/data switches, common user network transport infrastructure, end-user instruments (including telephones, soft phones, video teleconferencing equipment or computing devices), associated licensing, training range connectivity which may include long runs of fiber optics cable, and secure data switches, gateways and encryption devices for classified network connectivity. This funding also procures the network infrastructure engineering, acquisition, installation, security, and quality assurance to support the planning, design, and implementation of Information Systems requirements associated with SRM projects. Funding is required to ensure that these projects have all necessary Information Systems infrastructure and equipment for soldier readiness of the facilities.

INFORMATION SYSTEMS (CYBER):
FY 2018 Base procurement dollars in the amount of $38.533 million procures commercial-off-the-shelf (COTS) information systems supporting the secure requirements of the Cyber Protection Teams (CPT). Equipment includes Unified Capability voice/data switches, network transport infrastructure, end-user instruments (including telephones, soft phones, video teleconferencing equipment or computing

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:**<br>BB8650 / Information Systems | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

devices), associated licensing, gateways, and encryption devices for classified mission network connectivity and operations. Funds also procures program management support for the planning, design, and implementation of Information Systems associated with the MCA project.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73 | P-1 Line Item Number / Title: BB8650 / Information Systems | Item Number / Title [DODIC]: B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 1 | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 47.600 | 43.034 | 92.064 | 46.004 | - | 46.004 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 47.600 | 43.034 | 92.064 | 46.004 | - | 46.004 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **47.600** | **43.034** | **92.064** | **46.004** | **-** | **46.004** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 47,600.000 | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Proponent/Mission IT Hardware(†) | 47,600.000 | 1 | 47.600 | 43,034.000 | 1 | 43.034 | 92,064.000 | 1 | 92.064 | 46,004.000 | 1 | 46.004 | - | - | - | 46,004.000 | 1 | 46.004 |
| *Subtotal: Non Recurring Cost* | - | - | *47.600* | - | - | *43.034* | - | - | *92.064* | - | - | *46.004* | - | - | - | - | - | *46.004* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***47.600*** | **-** | **-** | ***43.034*** | **-** | **-** | ***92.064*** | **-** | **-** | ***46.004*** | **-** | **-** | **-** | **-** | **-** | ***46.004*** |
| **Gross/Weapon System Cost** | **47,600.000** | **1** | **47.600** | **-** | **-** | **43.034** | **-** | **-** | **92.064** | **-** | **-** | **46.004** | **-** | **-** | **-** | **-** | **-** | **46.004** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BB8650 / Information Systems | **Item Number / Title [DODIC]:** B31510 / PROPONENT/MISSION IT-MCA/PHYSICAL RELOCATION |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Proponent/Mission IT Hardware | | 2016 | IMOD/LTLCS/R2 / Ft. Belvoir | C / FFP | ACC-RI, Rock Island, IL | Aug 2016 | Dec 2016 | 1 | 43,034.000 | Y | | Apr 2016 |
| Proponent/Mission IT Hardware | | 2017 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Aug 2017 | Dec 2017 | 1 | 92,064.000 | N | | Apr 2017 |
| Proponent/Mission IT Hardware | | 2018 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Aug 2018 | Dec 2018 | 1 | 46,004.000 | N | | Apr 2018 |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. ACC-RI - Army Contracting Command-Rock Island. IMOD/LTLCS/R2 - Infrastructure Modernization/Long Term Life Cycle/R2.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BB8650 / Information Systems | **Item Number / Title [DODIC]:** BB1400 / INFORMATION SYSTEMS (MCA SUPPORT) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 1 | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 2,851.830 | 26.341 | 20.493 | 23.564 | - | 23.564 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 2,851.830 | 26.341 | 20.493 | 23.564 | - | 23.564 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **2,851.830** | **26.341** | **20.493** | **23.564** | **-** | **23.564** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,851,830.000 | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| MCA Spt-Telephone Switch(†) | 4,545.000 | 8 | 36.360 | 4,545.000 | 3 | 13.635 | 4,545.000 | 2 | 9.090 | 4,545.000 | 2 | 9.090 | - | - | - | 4,545.000 | 2 | 9.090 |
| MCA Spt-Switch Upgrades(†) | 130.000 | 40 | 5.200 | 130.000 | 12 | 1.560 | 130.000 | 12 | 1.560 | 130.000 | 12 | 1.560 | - | - | - | 130.000 | 12 | 1.560 |
| MCA Spt-Telephone System(†) | 75.000 | 40 | 3.000 | 75.000 | 12 | 0.900 | 75.000 | 12 | 0.900 | 75.000 | 13 | 0.975 | - | - | - | 75.000 | 13 | 0.975 |
| MCA Spt-LAN Transport System(†) | 275.000 | 37 | 10.175 | 275.000 | 12 | 3.300 | 275.000 | 12 | 3.300 | 275.000 | 12 | 3.300 | - | - | - | 275.000 | 12 | 3.300 |
| MCA Spt-Range Connectivity(†) | 750.000 | 7 | 5.250 | 750.000 | 3 | 2.250 | 750.000 | 2 | 1.500 | 750.000 | 4 | 3.000 | - | - | - | 750.000 | 4 | 3.000 |
| MCA Spt-Secure Data/ Encryption Devices(†) | 500.000 | 10 | 5.000 | 500.000 | 3 | 1.500 | 500.000 | 2 | 1.000 | 500.000 | 3 | 1.500 | - | - | - | 500.000 | 3 | 1.500 |
| MCA Spt-Engineering Svcs(†) | 42,600.000 | 1 | 42.600 | 2,396.000 | 1 | 2.396 | 2,343.000 | 1 | 2.343 | 2,359.000 | 1 | 2.359 | - | - | - | 2,359.000 | 1 | 2.359 |
| Phys Plant Infrastructure Spt IS Assets(†) | - | - | - | 800.000 | 1 | 0.800 | 800.000 | 1 | 0.800 | 1,780.000 | 1 | 1.780 | - | - | - | 1,780.000 | 1 | 1.780 |
| MCA | 2,744,245.000 | 1 | 2,744.245 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | *2,851.830* | - | - | *26.341* | - | - | *20.493* | - | - | *23.564* | - | - | - | - | - | *23.564* |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BB8650 / Information Systems | **Item Number / Title [DODIC]:** BB1400 / INFORMATION SYSTEMS (MCA SUPPORT) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Hardware Cost* | - | - | 2,851.830 | - | - | 26.341 | - | - | 20.493 | - | - | 23.564 | - | - | - | - | - | 23.564 |
| **Gross/Weapon System Cost** | 2,851,830.00 | 1 | 2,851.830 | - | - | 26.341 | - | - | 20.493 | - | - | 23.564 | - | - | - | - | - | 23.564 |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73 | P-1 Line Item Number / Title: BB8650 / Information Systems | Item Number / Title [DODIC]: BB1400 / INFORMATION SYSTEMS (MCA SUPPORT) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCA Spt-Telephone Switch | | 2016 | IMOD/LTLCS/R2 / Ft. Belvoir, VA | C / FFP | ACC-RI, Rock Island, IL | Feb 2016 | Jul 2016 | 3 | 4,545.000 | N | | |
| MCA Spt-Telephone Switch | | 2017 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Jan 2017 | Jul 2017 | 2 | 4,545.000 | N | | |
| MCA Spt-Telephone Switch | | 2018 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Jan 2018 | Jul 2018 | 2 | 4,545.000 | N | | |
| MCA Spt-Switch Upgrades | | 2016 | IMOD/LTLCS/R2 / Ft. Belvoir, VA | C / FFP | ACC-RI, Rock Island, IL | Feb 2016 | May 2016 | 12 | 130.000 | N | | |
| MCA Spt-Switch Upgrades | | 2017 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2017 | May 2017 | 12 | 130.000 | N | | |
| MCA Spt-Switch Upgrades | | 2018 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2018 | May 2018 | 12 | 130.000 | N | | |
| MCA Spt-Telephone System | | 2016 | Various / Installations | C / FFP | CHESS, Ft. Belvoir, VA | Feb 2016 | Jul 2016 | 12 | 75.000 | N | | |
| MCA Spt-Telephone System | | 2017 | Various / Installations | C / FFP | CHESS, Ft. Belvoir, VA | Feb 2017 | Jul 2017 | 12 | 75.000 | N | | |
| MCA Spt-Telephone System | | 2018 | Various / Installations | C / FFP | CHESS, Ft. Belvoir, VA | Feb 2018 | Jul 2018 | 13 | 75.000 | N | | |
| MCA Spt-LAN Transport System | | 2016 | IMOD/LTLCS/R2 / Ft. Belvoir, VA | C / FFP | ACC-RI, Rock Island, IL | Feb 2016 | May 2016 | 12 | 275.000 | N | | |
| MCA Spt-LAN Transport System | | 2017 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2017 | May 2017 | 12 | 275.000 | N | | |
| MCA Spt-LAN Transport System | | 2018 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2018 | May 2018 | 12 | 275.000 | N | | |
| MCA Spt-Range Connectivity | | 2016 | IMOD/LTLCS/R2 / Ft. Belvoir, VA | C / FFP | ACC-RI, Rock Island, IL | Feb 2016 | Sep 2016 | 3 | 750.000 | N | | |
| MCA Spt-Range Connectivity | | 2017 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2017 | Sep 2017 | 2 | 750.000 | N | | |
| MCA Spt-Range Connectivity | | 2018 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2018 | Sep 2018 | 4 | 750.000 | N | | |
| MCA Spt-Secure Data/Encryption Devices | | 2016 | IMOD/LTLCS/R2 / Ft. Belvoir, VA | C / FFP | ACC-RI, Rock Island, IL | Feb 2016 | Sep 2016 | 3 | 500.000 | N | | |
| MCA Spt-Secure Data/Encryption Devices | | 2017 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2017 | Sep 2017 | 2 | 500.000 | N | | |
| MCA Spt-Secure Data/Encryption Devices | | 2018 | TBS / TBS | C / FFP | ACC-RI, Rock Island, IL | Feb 2018 | Sep 2018 | 3 | 500.000 | N | | |
| MCA Spt-Engineering Svcs | | 2016 | TEIS / Ft. Detrick, MD | C / FFP | ACC-HUA, Ft. Huachuca, AZ | Aug 2016 | Sep 2016 | 1 | 2,396.000 | N | | |
| MCA Spt-Engineering Svcs | | 2017 | TEIS / Ft. Detrick, MD | C / FFP | ACC-HUA, Ft. Huachuca, AZ | Aug 2017 | Sep 2017 | 1 | 2,343.000 | N | | |
| MCA Spt-Engineering Svcs | | 2018 | TEIS / Ft. Detrick, MD | C / FFP | ACC-HUA, Ft. Huachuca, AZ | Aug 2018 | Sep 2018 | 1 | 2,359.000 | N | | |
| Phys Plant Infrastructure Spt IS Assets | | 2016 | Various / Installations | C / FFP | ACC-RI, Rock Island, IL | Apr 2016 | Aug 2016 | 1 | 800.000 | N | | |
| Phys Plant Infrastructure Spt IS Assets | | 2017 | Various / Installations | C / FFP | ACC-RI, Rock Island, IL | Apr 2017 | Aug 2017 | 1 | 800.000 | N | | |
| Phys Plant Infrastructure Spt IS Assets | | 2018 | Various / Installations | C / FFP | ACC-RI, Rock Island, IL | Apr 2018 | Aug 2018 | 1 | 1,780.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. ACC-RI - Army Contracting Command-Rock Island; CHESS - Computer Hardware Enterprise Software and Solutions; IMOD/LTLCS/R2 - Infrastructure Modernization/Long Term Life Cycle/R2; TEIS - Total Engineering and Integration Services; ACC-HUA - Army Contracting Command-Fort Huachuca.

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 73 | **P-1 Line Item Number / Title:**<br>BB8650 / Information Systems | **Item Number / Title [DODIC]:**<br>BB1400 / INFORMATION SYSTEMS (MCA SUPPORT) |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BB8650 / Information Systems | **Item Number / Title [DODIC]:** BB8655 / Information Systems (Cyber) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 38.533 | - | 38.533 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 38.533 | - | 38.533 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **38.533** | **-** | **38.533** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Information Systems (Cyber)(†) | - | - | - | - | - | - | - | - | - | 38,533.000 | 1 | 38.533 | - | - | - | 38,533.000 | 1 | 38.533 |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *38.533* | - | - | - | - | - | *38.533* |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***38.533*** | **-** | **-** | **-** | **-** | **-** | ***38.533*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **38.533** | **-** | **-** | **-** | **-** | **-** | **38.533** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BB8650 / Information Systems | **Item Number / Title [DODIC]:** BB8655 / Information Systems (Cyber) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Information Systems (Cyber) | | 2018 | TBD / TBD | C / FFP | ACC-RI, Rock Island, IL | Aug 2018 | Oct 2018 | 1 | 38,533.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. ACC-RI - Army Contracting Command-Rock Island.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BB8650 / Information Systems | **Item Number / Title [DODIC]:** BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 1 | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,010.346 | 3.662 | 9.498 | 10.000 | - | 10.000 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,010.346 | 3.662 | 9.498 | 10.000 | - | 10.000 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,010.346** | **3.662** | **9.498** | **10.000** | **-** | **10.000** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 1,010,346.000 | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Sustain/Restore/ Modernize (SRM) HW(†) | 1,010,346.000 | 1 | 1,010.346 | 3,662.000 | 1 | 3.662 | 9,498.000 | 1 | 9.498 | 10,000.000 | 1 | 10.000 | - | - | - | 10,000.000 | 1 | 10.000 |
| *Subtotal: Non Recurring Cost* | - | - | *1,010.346* | - | - | *3.662* | - | - | *9.498* | - | - | *10.000* | - | - | - | - | - | *10.000* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***1,010.346*** | **-** | **-** | ***3.662*** | **-** | **-** | ***9.498*** | **-** | **-** | ***10.000*** | **-** | **-** | **-** | **-** | **-** | ***10.000*** |
| **Gross/Weapon System Cost** | **1,010,346.00** | **1** | **1,010.346** | **-** | **-** | **3.662** | **-** | **-** | **9.498** | **-** | **-** | **10.000** | **-** | **-** | **-** | **-** | **-** | **10.000** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BB8650 / Information Systems | **Item Number / Title [DODIC]:** BB8700 / INFORMATION SYSTEMS (CONUS/WESTERN HEM) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sustain/Restore/Modernize (SRM) HW | | 2016 | Various / Various | C / FFP | CHESS, Ft Belvoir, VA | Apr 2016 | Sep 2016 | 1 | 3,662.000 | Y | | |
| Sustain/Restore/Modernize (SRM) HW | | 2017 | TBS / TBS | C / FFP | CHESS, Ft Belvoir, VA | Apr 2017 | Sep 2017 | 1 | 9,498.000 | N | | |
| Sustain/Restore/Modernize (SRM) HW | | 2018 | TBS / TBS | C / FFP | CHESS, Ft Belvoir, VA | Apr 2018 | Sep 2018 | 1 | 10,000.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by project, system configuration, and site. CHESS - Computer Hardware Enterprise Software and Solutions.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:** BU8000 / Emergency Management Modernization Program |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 1 | - | 1 | 1 | 1 | 1 | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 149.893 | 8.550 | 4.286 | 4.490 | - | 4.490 | 4.795 | 4.914 | 4.966 | 5.000 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 149.893 | 8.550 | 4.286 | 4.490 | - | 4.490 | 4.795 | 4.914 | 4.966 | 5.000 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **149.893** | **8.550** | **4.286** | **4.490** | **-** | **4.490** | **4.795** | **4.914** | **4.966** | **5.000** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 4,490.000 | - | 4,490.000 | 4,795.000 | 4,914.000 | 4,966.000 | - | Continuing | Continuing |

## Description:

The Emergency Management Modernization Program (EM2P) is a single integrated acquisition program for the design, procurement, fielding, new equipment training, and life-cycle management of emergency management capabilities in support of Army installations, Soldiers and their Families, civilians, and contractors. EM2P provides capabilities that increase situational awareness, decrease responder time, and allow for quicker warning and notification of personnel during the management of an active incident. EM2P consists of Mass Warning and Notification (MWN) technologies (fielded FY12-16), Enhanced 911 (E911) solutions (fielded FY12-16), and Computer Aided Dispatch (CAD) capability (fielding FY18). CAD serves as the central hub for dispatching law enforcement, fire, and medical services on an installation and is integrated with Automated Installation Entry (AIE), Mass Warning and Notification (MWN), and law enforcement (LE) authoritative data sources as well as with local civilian CAD and civilian LE authoritative data sources. The EM2P provides capabilities that will save lives by enabling Commanders to quickly and effectively respond to any installation emergency events, to include insider threats, terrorist activity and natural disasters.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | 1 | - | 1 | 1 | 1 | 1 | - |
| | Total Obligation Authority | 8.550 | 4.286 | 4.490 | - | 4.490 | 4.795 | 4.914 | 4.966 | 5.000 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **1** | **-** | **1** | **1** | **1** | **1** | **-** |
| | **Total Obligation Authority** | **8.550** | **4.286** | **4.490** | **-** | **4.490** | **4.795** | **4.914** | **4.966** | **5.000** |

**Justification:**

FY 2018 Base procurement funding in the amount of $4.490 million will continue to fund the field the Computer Aided Dispatch solution pilot.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:**<br>B33000 / Home Station Mission Command Centers |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 20.050 | - | 20.050 | 24.780 | 25.120 | 8.000 | 12.040 | - | 89.990 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 20.050 | - | 20.050 | 24.780 | 25.120 | 8.000 | 12.040 | - | 89.990 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **20.050** | **-** | **20.050** | **24.780** | **25.120** | **8.000** | **12.040** | **-** | **89.990** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Home Station Mission Command Centers (HSMCC) is a suite of standardized capabilities utilized at Corps, Division and Theater Headquarters that allows expeditionary mission command during all operational phases. The HSMCC nests within the mission command network vision: expeditionary, uninterrupted mission command through a network comprised of intuitive, secured, standards-based capabilities adapted to Commander's requirements that is integrated into a common operating environment. HSMCC will enable units to execute a variety of required missions, such as Defense Support to Civil Authorities, Training and Readiness, Preparing and Deploying regionally aligned forces from Home Station, and Senior Commander Functions. Advances in network capability, telepresence tools and remote collaboration provide the technical foundation for the HSMCCs reach-forward and reach-back capabilities. HSMCC provides control and enables the mission command warfighting function by providing a secure, integrated, standards-based environment that ensures uninterrupted global access and enables collaboration and decisive action throughout all operational phases across all environments.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 20.050 | - | 20.050 | 24.780 | 25.120 | 8.000 | 12.040 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **-** | **20.050** | **-** | **20.050** | **24.780** | **25.120** | **8.000** | **12.040** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:**<br>B33000 / Home Station Mission Command Centers |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B33011 / Home Station Mission Command Centers | P-5a | | | - / - | - / - | - / - | 12 / 20.050 | - / - | 12 / 20.050 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / -** | **- / -** | **- / -** | **- / 20.050** | **- / -** | **- / 20.050** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $20.050 million dollars procures the CONUS/OCONUS streamlined installation of the HSMCC capabilities at sites prioritized by FORSCOM. Currently, 12 sites have been identified for FY18 for engineering/implementation of HSMCC. Funding also procures Site preparation that includes site surveys, site assessment reports, systems requirement documents, and engineering implementation plans. Hardware IT equipment to be procured includes: Operator & PC connections, HD cameras, Network Switches, CODEC, projectors, HDTV tuners, monitors, microphones, speakers, control panels, communication hardware racks, interconnect video feeds, laptop interfaces, and sound masking systems. FY18 also funds associated program management costs.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** B33000 / Home Station Mission Command Centers | **Item Number / Title [DODIC]:** B33011 / Home Station Mission Command Centers |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 12 | - | 12 |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 20.050 | - | 20.050 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 20.050 | - | 20.050 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **20.050** | **-** | **20.050** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 1,670.833 | - | 1,670.833 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| HSMCC Hardware(†) | - | - | - | - | - | - | - | - | - | 866.667 | 12 | 10.400 | - | - | - | 866.667 | 12 | 10.400 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *10.400* | - | - | - | - | - | *10.400* |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***10.400*** | **-** | **-** | **-** | **-** | **-** | ***10.400*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | - | - | - | - | - | - | - | 1,250.000 | 1 | 1.250 | - | - | - | 1,250.000 | 1 | 1.250 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***1.250*** | **-** | **-** | **-** | **-** | **-** | ***1.250*** |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | - | - | - | - | - | - | - | 8,400.000 | 1 | 8.400 | - | - | - | 8,400.000 | 1 | 8.400 |
| *Subtotal: Support - System Engineering Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***8.400*** | **-** | **-** | **-** | **-** | **-** | ***8.400*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **1,670.833** | **12** | **20.050** | **-** | **-** | **-** | **1,670.833** | **12** | **20.050** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 73 | **P-1 Line Item Number / Title:**<br>B33000 / Home Station Mission Command Centers | **Item Number / Title [DODIC]:**<br>B33011 / Home Station Mission Command Centers |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HSMCC Hardware | | 2018 | TBD / TBD | C / FFP | CHESS | Jan 2018 | Feb 2018 | 12 | 866.670 | | | |

**Remarks:**
These items are being procured as Commercial-off-the Shelf (COTS).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:**<br>BU0500 / Installation Info Infrastructure Mod Program |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 3,859.681 | 111.807 | 347.504 | 186.251 | 2.500 | 188.751 | 285.331 | 217.690 | 225.098 | 232.080 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 3,859.681 | 111.807 | 347.504 | 186.251 | 2.500 | 188.751 | 285.331 | 217.690 | 225.098 | 232.080 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **3,859.681** | **111.807** | **347.504** | **186.251** | **2.500** | **188.751** | **285.331** | **217.690** | **225.098** | **232.080** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This budget line does not procure weapons systems or produce end items for weapon systems. All Information Technology (IT) procurements consist of Commercial-off-the-Shelf (COTS) and/or Government-off-the-Shelf (GOTS) solutions; all quantities and unit costs vary by system configuration and site.

BU0530:
The Installation Information Infrastructure Modernization Program (I3MP) modernizes and refreshes the classified and unclassified Networks on Army posts/camps/stations across the globe. Implementation of network modernization delivers modern communications Internet Protocol (IP) transport and data capabilities; optimizes existing and future capabilities; and divests legacy systems and capabilities that are no longer required or sustainable. Installation-level network infrastructure is comprised of the electronics, wiring, and security equipment required to provide voice, video, and data communications to traditional business users and Warfighters. Specific systems the program fields include classified and unclassified routing and switching components of the installation network; network paths (outside plant – fiber, cables and wires connecting all users and switching systems to one another); and power and Heating, Ventilating, and Air Conditioning (HVAC) needed to support operating the upgraded network equipment once installed. I3MP is the very foundation of the Army and DoD Enterprise information technology modernization strategy to evolve to a single converged data, voice, and video network; this strategy is referred to as Everything over Internet Protocol (EoIP). The converged network enables Unified Capabilities (UC) and the Joint Information Environment (JIE), and eliminates the need and costs to manage/ maintain three separate voice, data and video networks on installations. I3MP engineers, designs, and fields standardized, converged, UC-ready, secure Installation Campus Area Network (ICAN) infrastructure using Commercial-off-the-Shelf (COTS) solutions. This infrastructure gives tactical and strategic end-users connectivity across the installation and the wide-area DOD Information Network (DODIN). The I3MP modernization enables soldiers to operate their tactical warfighting systems in garrison to maintain proficiency while they are not deployed instead of relying on costly satellite usage time. I3MP further enables valuable training as it provides the critical high speed and high bandwidth connectivity required for facilities and organizations to conduct Live, Virtual, and Constructive exercises and operations. In Korea, I3MP continues to support IT engineering for the Yongsan Relocation Plan/Land Partnership Plan (YRP/LPP) to reduce the U.S. forces footprint and consolidate operations at Camp Humphreys. It also resources the communications network backbone infrastructure for Joint communications on the Korean peninsula with phased replacement of the obsolete Asynchronous Transfer Mode (ATM)/Synchronous Optical Networking (SONET) infrastructure (52 ATM nodes circa 1997/28 SONET nodes circa 1999), that provide data, voice, and video communications. I3MP support also includes providing communications capabilities to the European Reassurance Initiative (ERI) Army Prepositioned Stock (APS) and Enduring European Equipment Set (E3S) Sites; and the communications infrastructure capabilities for our forward stationed Terminal High Altitude Aerial Defense (THAAD) requirements in Korea.

BU0510:
OPERATION ATLANTIC RESOLVE (OAR) NETWORK: Overseas Contingency Operations (OCO) within the I3MP line specifically support the OAR network, provides coalition mission support, Command and Control (C2), Intelligence, and collaboration capabilities to the US and Allied Partner Nations participating in OAR activities. It supports the European Reassurance Initiative (ERI)and will enable local and

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

distributed training across the European Command (EUCOM) Area of Responsibility (AOR). The network serves as the central operational synchronization platform to enable coalition multi-national training and execution at the tactical and operational level spanning Central Region to the Baltics.

BU3610:
The World Wide Technical Control Improvement Program (WWTCIP) is a continuing program to initiate, improve, expand and automate the Army's Technical Control Facilities (TCFs) with a more efficient capability to monitor communications networks and perform the restoral activities required to enable critical warfighting and sustainment capabilities. These upgrades provide the end user with greater bandwidth for high quality voice, data, video, enabling real time response and restoral actions to minimize communications outages. This program provides configuration management and implements Information Assurance (IA) controls for the modernized TCFs. The program is essential to support Outside the Continental United States (OCONUS) Theater Combatant Commander's communications, Continental United States (CONUS) power projection bases, and Defense Satellite Communications Systems.

BU2000:
The Terrestrial Transmission (TT) program is a component of the Army's seamless Enterprise Network that provides long-haul communications compatibility across operational systems supporting the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The goal architecture will be able to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. The objective is an integrated, survivable network that provides voice, data messaging, video and transmission services to the Warfighter. It will also continue the upgrade of power, and timing and alarm systems for the European Transmission Systems. The Army Special Access Program Enterprise Portal (ASEP) is the Army's only Top Secret compartmented wide area network providing a secure communications capability (email, video, teleconferencing, document storage/sharing, voice over internet protocol and instant messaging) for the transmission of highly classified Special Access Required (SAR) information between the Army Operations Center (AOC), the Army staff, Army Commands, Army Service Component Commands, Army Special Access Programs (SAPs) and Army Sensitive Activities (SAs).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 111.807 | 347.504 | 186.251 | 2.500 | 188.751 | 285.331 | 217.690 | 225.098 | 232.080 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **111.807** | **347.504** | **186.251** | **2.500** | **188.751** | **285.331** | **217.690** | **225.098** | **232.080** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | BU0510 / I3MP - Europe | P-5a | | | - / 869.385 | - / - | - / 4.500 | - / - | - / - | - / - |
| P-40a | BU0520 / I3MP - Pacific | | | | - / 299.972 | - / - | - / - | - / - | - / - | - / - |
| P-5 | BU0530 / I3MP - CONUS | P-5a | | | - / 1,680.863 | - / 107.534 | - / 325.516 | - / 175.659 | - / 2.500 | - / 178.159 |
| P-5 | BU2000 / TERRESTRIAL TRANSMISSION | P-5a | | | - / 70.938 | - / 1.298 | - / 1.557 | - / 1.592 | - / - | - / 1.592 |
| P-5 | BU3610 / WW Tech Con Imp Prog (WWTCIP) | P-5a | | | - / 938.523 | - / 2.975 | - / 15.931 | - / 9.000 | - / - | - / 9.000 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 3,859.681** | **- / 111.807** | **- / 347.504** | **- / 186.251** | **- / 2.500** | **- / 188.751** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
BU0530:
FY 2018 Base procurement dollars in the amount of $175.659 million supports the end-to-end dependencies needed to deliver CONUS/OCONUS network modernization to Army posts, camps and stations (P/C/S). These procurements include: surveys of Army posts, camps and stations (P/C/S); the engineering and design necessary to modernize and optimize Army P/C/S; the IP transport and data hardware; the installation and implementation of the engineered hardware solutions; and the divestiture of legacy communications network components. Equipment procurements include, but are not limited to, high speed Information Campus Area Network (ICAN) level switching devices, high capacity routers, and optical fiber. Funds also support communications infrastructure capabilities for European Reassurance Initiative (ERI) Army Prepositioned Stock (APS) and Enduring European Equipment Set (E3S) sites; forward-stationed Terminal High Altitude Aerial Defense (THAAD) requirements in Korea; modernization of all installations in Korea, and program management costs. The modernization and convergence of voice, data and video networks to a high capacity communications infrastructure enables the Army to deliver mandated Unified Capabilities (UC) and reduces operation and management costs for the enterprise.

FY 2018 OCO procurement dollars in the amount of $2.500 million supports ERI enhanced prepositioning of the Armored Brigade Combat Team (ABCT) presence.

BU0510:
No FY 2018 procurement dollars.

BU3610:
FY 2018 Base procurement dollars in the amount of $9.000 million procures the technical engineering service support that facilitates design reviews for the full technical upgrades of TCFs; the power (alternating current and direct current (AC/DC), uninterruptible power supply (UPS) and backup generator), timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interfaces, and appropriate test equipment with associated hardware. The emerging requirements for base consolidation in both the Pacific and European Theaters require robust TCF capability.

BU2000:
FY 2018 Base procurement dollars in the amount of $1.592 million procures minimal technology refresh (Routers, Switches, Servers, Monitors, etc.) of 10 sites to maintain operational effectiveness, information assurance requirements and to replace obsolete system components of the Army's Special Access Program Enterprise Portal (ASEP).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications | **P-1 Line Item Number / Title:**<br>BU0500 / Installation Info Infrastructure Mod Program | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

All funding goes to the Active Component.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Item Number / Title [DODIC]:** BU0510 / I3MP - Europe |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 869.385 | - | 4.500 | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 869.385 | - | 4.500 | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **869.385** | **-** | **4.500** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| ERI Operation Atlantic Resolve (OAR) Network(†) | - | - | - | - | - | - | 4,500.000 | 1 | 4.500 | - | - | - | - | - | - | - | - | - |
| Shelterized Tech Comm Facilities(†) | 11,500.000 | 1 | 11.500 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| I3MP SWA | 850,885.000 | 1 | 850.885 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Multi-Protocol Packet Label Switching SW Asia(†) | 7,000.000 | 1 | 7.000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | *869.385* | - | - | - | - | - | *4.500* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Hardware Cost* | **-** | **-** | ***869.385*** | **-** | **-** | **-** | **-** | **-** | ***4.500*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **869.385** | **-** | **-** | **-** | **-** | **-** | **4.500** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | 4.500 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **4.500** | **-** | **-** | **-** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Item Number / Title [DODIC]:** BU0510 / I3MP - Europe |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73 | P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program | Item Number / Title [DODIC]: BU0510 / I3MP - Europe |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERI Operation Atlantic Resolve (OAR) Network | | 2017 | TBD / TBD | C / IDIQ | ACC-RI, Rock Island, IL | Feb 2017 | Mar 2017 | 1 | 4,500.000 | N | | |
| Shelterized Tech Comm Facilities | | 2015 | VAR / VAR | C / IDIQ | ACC-RI, Rock Island, IL | Jun 2016 | Jul 2016 | 0 | 11,500.000 | Y | | |
| Multi-Protocol Packet Label Switching SW Asia | | 2015 | VAR / VAR | C / IDIQ | ACC-RI, Rock Island, IL | Jun 2016 | Jul 2016 | 0 | 7,000.000 | Y | | |

**Remarks:**
Contracts will be worked through Army Contracting Command Rock Island (ACC-RI). Commercial-Off-The-Shelf (COTS) products will be procured via Indefinite Delivery Indefinite Quantity (IDIQ) contracts that provide continuous vendor competition for best value and consolidation of requirements to maximize cost avoidance and leverage the Army's buying power.

| Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Aggregated Items Title:** Various |

| Item Number / Title [DODIC] | ID CD | MDAP/ MAIS Code | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| **I3MP - Pacific** | | | | | | | | | | | | | | | | | | | | |
| BU0520 / I3MP - Pacific | | | - | - | 299.972 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: I3MP - Pacific*** | | | **-** | **-** | ***299.972*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Total** | | | **-** | **-** | **299.972** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73 | P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program | Item Number / Title [DODIC]: BU0530 / I3MP - CONUS |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,680.863 | 107.534 | 325.516 | 175.659 | 2.500 | 178.159 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,680.863 | 107.534 | 325.516 | 175.659 | 2.500 | 178.159 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,680.863** | **107.534** | **325.516** | **175.659** | **2.500** | **178.159** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| NETMOD-C Switches(†) | - | - | 24.900 | 7,596.000 | 1 | 7.596 | 44,000.000 | 1 | 44.000 | - | - | 25.239 | - | - | - | - | - | 25.239 |
| YRP/LPP Increment 2C(†) | - | - | - | 15,300.000 | 1 | 15.300 | - | - | - | - | - | 43.448 | - | - | - | - | - | 43.448 |
| TCF In A Box(†) | - | - | - | 7,000.000 | 1 | 7.000 | - | - | 97.200 | - | - | - | - | - | - | - | - | - |
| IT Modernization (Hardware)(†) | - | - | 196.135 | 17,611.000 | 1 | 17.611 | 97,500.000 | 1 | 97.500 | - | - | 29.089 | - | - | - | - | - | 29.089 |
| Implementation/ Engineering(†) | - | - | 1,459.828 | 7,527.000 | 1 | 7.527 | 49,816.000 | 1 | 49.816 | - | - | 33.883 | - | - | - | - | - | 33.883 |
| THAAD Infrastructure(†) | - | - | - | - | - | - | - | - | - | 14,000.000 | 1 | 14.000 | - | - | - | 14,000.000 | 1 | 14.000 |
| *Subtotal: Recurring Cost* | - | - | *1,680.863* | - | - | *55.034* | - | - | *288.516* | - | - | *145.659* | - | - | - | - | - | *145.659* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| OFS Camp Buehring(†) | - | - | - | 5,000.000 | 1 | 5.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| OFS Diverse Pt of Presence Camp Arifjan(†) | - | - | - | 4,500.000 | 1 | 4.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| OFS COOP/DR OCP ARCENT-Forward(†) | - | - | - | 3,500.000 | 1 | 3.500 | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73 | P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program | Item Number / Title [DODIC]: BU0530 / I3MP - CONUS |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| OFS OSP Enduring Sites(†) | - | - | - | 6,000.000 | 1 | 6.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| OFS Comm Infra Enduring Sites(†) | - | - | - | 4,000.000 | 1 | 4.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| OFS IPN/SPPN(†) | - | - | - | 6,500.000 | 1 | 6.500 | - | - | - | - | - | - | - | - | - | - | - | - |
| OAR NETWORK(†) | - | - | - | - | - | - | 4,500.000 | 1 | 4.500 | - | - | - | - | - | 2.500 | - | - | 2.500 |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | *29.500* | - | - | *4.500* | - | - | - | - | - | *2.500* | - | - | *2.500* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***1,680.863*** | **-** | **-** | ***84.534*** | **-** | **-** | ***293.016*** | **-** | **-** | ***145.659*** | **-** | **-** | ***2.500*** | **-** | **-** | ***148.159*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | - | - | - | 23.000 | 32,500.000 | 1 | 32.500 | - | - | 30.000 | - | - | - | - | - | 30.000 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | **-** | **-** | **-** | ***23.000*** | **-** | **-** | ***32.500*** | **-** | **-** | ***30.000*** | **-** | **-** | **-** | **-** | **-** | ***30.000*** |
| **Gross/Weapon System Cost** | **-** | **-** | **1,680.863** | **-** | **-** | **107.534** | **-** | **-** | **325.516** | **-** | **-** | **175.659** | **-** | **-** | **2.500** | **-** | **-** | **178.159** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 107.534 | 325.516 | 175.659 | 2.500 | 178.159 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **107.534** | **325.516** | **175.659** | **2.500** | **178.159** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 73 | P-1 Line Item Number / Title: BU0500 / Installation Info Infrastructure Mod Program | Item Number / Title [DODIC]: BU0530 / I3MP - CONUS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NETMOD-C Switches | | 2016 | CDW Government LLC / Vernon Hills, IL | C / FFP | ACC-RI, Rock Island, IL | Nov 2015 | Dec 2015 | 1 | 7,596.000 | | | |
| NETMOD-C Switches | | 2017 | CDW Government LLC / Vernon Hills, IL | C / FFP | ACC-RI, Rock Island, IL | Oct 2016 | Nov 2016 | 1 | 44,000.000 | | | |
| NETMOD-C Switches | | 2018 | CDW Government LLC / Vernon Hills, IL | C / FFP | ACC-RI, Rock Island, IL | Jan 2018 | Feb 2018 | 0 | 0.000 | | | |
| YRP/LPP Increment 2C | | 2016 | LGS Innovations / McLeansville, NC | C / CPFF | ACC-RI, Rock Island, IL | Nov 2015 | Dec 2015 | 1 | 15,300.000 | | | |
| YRP/LPP Increment 2C | | 2018 | TBD / TBD | C / FFP | ACC-RI, Rock Island, IL | Mar 2018 | Apr 2018 | 0 | 0.000 | | | |
| TCF In A Box | | 2016 | Various / Various | C / IDIQ | ACC-RI, Rock Island, IL | Jun 2016 | Jul 2016 | 1 | 7,000.000 | | | |
| TCF In A Box | | 2018 | TBD / TBD | C / IDIQ | ACC-RI, Rock Island, IL | Feb 2018 | Mar 2018 | 0 | 0.000 | | | |
| IT Modernization (Hardware) | | 2016 | Various / Various | C / Various | ACC-RI, Rock Island, IL | Dec 2015 | Jan 2016 | 1 | 17,611.000 | | | |
| IT Modernization (Hardware) | | 2017 | Various / Various | C / Various | ACC-RI, Rock Island, IL | Dec 2016 | Jan 2017 | 1 | 97,500.000 | | | |
| IT Modernization (Hardware) | | 2018 | Various / Various | C / Various | ACC-RI, Rock Island | Dec 2017 | Jan 2018 | 0 | 0.000 | | | |
| Implementation/Engineering | | 2016 | Various / Various | C / Various | Various | Oct 2015 | Nov 2015 | 1 | 7,527.000 | | | |
| Implementation/Engineering | | 2017 | Various / Various | C / Various | Various | Oct 2016 | Nov 2016 | 1 | 49,816.000 | | | |
| Implementation/Engineering | | 2018 | Various / Various | C / Various | ACC-RI, Rock Island, IL | Jan 2018 | Jan 2018 | 0 | 0.000 | | | |
| THAAD Infrastructure | | 2018 | TBD / TBD | C / FFP | TBD | May 2018 | May 2019 | 1 | 14,000.000 | | | |
| OFS Camp Buehring | | 2016 | Various / Various | C / FFP | ACC-RI, Rock Island, IL | Jan 2016 | Feb 2016 | 1 | 5,000.000 | | | |
| OFS Diverse Pt of Presence Camp Arifjan | | 2016 | Various / Various | C / FFP | ACC-RI, Rock Island, IL | Jan 2016 | Mar 2016 | 1 | 4,500.000 | | | |
| OFS COOP/DR OCP ARCENT-Forward | | 2016 | Various / Various | C / FFP | ACC-RI, Rock Island, IL | Feb 2016 | Mar 2016 | 1 | 3,500.000 | | | |
| OFS OSP Enduring Sites | | 2016 | Various / Various | C / FFP | ACC-RI, Rock Island, IL | Jan 2016 | Feb 2016 | 1 | 6,000.000 | | | |
| OFS Comm Infra Enduring Sites | | 2016 | Various / Various | C / FFP | ACC-RI, Rock Island, IL | Feb 2016 | Mar 2016 | 1 | 4,000.000 | | | |
| OFS IPN/SPPN | | 2016 | Various / Various | C / FFP | ACC-RI, Rock Island, IL | May 2016 | Jun 2016 | 1 | 6,500.000 | | | |
| OAR NETWORK | | 2017 | TBD / TBD | C / FFP | TBD | Oct 2017 | Nov 2017 | 1 | 4,500.000 | | | |

**Remarks:**
REMARKS: I3MP is a complex program that orchestrates the implementation of multiple disciplines (connectivity (voice, data, Outside Cable Plant (OSP) network)), capacity, storage and information assurance) across multiple locations each with their own developmental cycle, frequently resulting in the overlapping development and implementation of customized communications solutions (to meet unique and diverse mission conditions) at each Army installation. Unit costs and accompanying number of implementations (installations) will, therefore, vary from year to year, due to the complexity of the requirement, size of the installation, state of the information technology being replaced/modernized, the type of technology required, unique configuration and level of effort required to satisfy all requirements. ACC-RI - Army Contracting Command-Rock Island,
DISA/DITCO - Defense Information Systems Agency/Defense Information Technology Contracting Organization; OFS – Operation Freedom Sentinel; OSP - Outside Cable Plant; COOP - Continuity of Operations; DR - Disaster Recovery; ARCENT - Army Central; IPN - Installation Processing Node; SPPN - Special Purpose Processing Node.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Item Number / Title [DODIC]:** BU2000 / TERRESTRIAL TRANSMISSION |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 70.938 | 1.298 | 1.557 | 1.592 | - | 1.592 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 70.938 | 1.298 | 1.557 | 1.592 | - | 1.592 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **70.938** | **1.298** | **1.557** | **1.592** | **-** | **1.592** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Furnish Bills of Material, Install &Test(†) | 70,938.000 | 1 | 70.938 | 1,298.000 | 1 | 1.298 | 1,557.000 | 1 | 1.557 | 1,592.000 | 1 | 1.592 | - | - | - | 1,592.000 | 1 | 1.592 |
| *Subtotal: Recurring Cost* | - | - | *70.938* | - | - | *1.298* | - | - | *1.557* | - | - | *1.592* | - | - | - | - | - | *1.592* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***70.938*** | **-** | **-** | ***1.298*** | **-** | **-** | ***1.557*** | **-** | **-** | ***1.592*** | **-** | **-** | **-** | **-** | **-** | ***1.592*** |
| **Gross/Weapon System Cost** | **-** | **-** | **70.938** | **-** | **-** | **1.298** | **-** | **-** | **1.557** | **-** | **-** | **1.592** | **-** | **-** | **-** | **-** | **-** | **1.592** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 1.298 | 1.557 | 1.592 | - | 1.592 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **1.298** | **1.557** | **1.592** | **-** | **1.592** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Item Number / Title [DODIC]:** BU2000 / TERRESTRIAL TRANSMISSION |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Furnish Bills of Material, Install &Test | | 2017 | Unicom Government Inc / Dulles | C / FFP | PEO EIS, CHESS | Mar 2017 | May 2017 | 1 | 1,557.000 | | | |
| Furnish Bills of Material, Install &Test | | 2018 | Unicom Government Inc / Dulles | C / FFP | PEO EIS, CHESS | Jan 2018 | Jan 2018 | 1 | 1,592.000 | | | |

**Remarks:**
Purchase is for Standard Off the Shelf (COTS) equipment.
Program Executive Office, Enterprise Information Systems (PEO EIS)
Computer Hardware, Enterprise Software and Solutions (CHESS)

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Item Number / Title [DODIC]:** BU3610 / WW Tech Con Imp Prog (WWTCIP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 938.523 | 2.975 | 15.931 | 9.000 | - | 9.000 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 938.523 | 2.975 | 15.931 | 9.000 | - | 9.000 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **938.523** | **2.975** | **15.931** | **9.000** | **-** | **9.000** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Program Management Administration(†) | 95,064.000 | 1 | 95.064 | 730.000 | 1 | 0.730 | 1,199.000 | 1 | 1.199 | 2,698.000 | 1 | 2.698 | - | - | - | 2,698.000 | 1 | 2.698 |
| Engineer, Install & Test(†) | 281,153.000 | 3 | 843.459 | 2,245.000 | 1 | 2.245 | 1,722.000 | 1 | 1.722 | 4,324.000 | 1 | 4.324 | - | - | - | 4,324.000 | 1 | 4.324 |
| Engineer, Install & Test Kabul Embassy - OCO(†) | - | - | - | - | - | - | 13,010.000 | 1 | 13.010 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *938.523* | - | - | *2.975* | - | - | *15.931* | - | - | *7.022* | - | - | - | - | - | *7.022* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***938.523*** | **-** | **-** | ***2.975*** | **-** | **-** | ***15.931*** | **-** | **-** | ***7.022*** | **-** | **-** | **-** | **-** | **-** | ***7.022*** |
| Logistics Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Technical Control Facility Upgrades(†) | - | - | - | - | - | - | - | - | - | 1,978.000 | 1 | 1.978 | - | - | - | 1,978.000 | 1 | 1.978 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *1.978* | - | - | - | - | - | *1.978* |
| *Subtotal: Logistics Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***1.978*** | **-** | **-** | **-** | **-** | **-** | ***1.978*** |
| **Gross/Weapon System Cost** | **-** | **-** | **938.523** | **-** | **-** | **2.975** | **-** | **-** | **15.931** | **-** | **-** | **9.000** | **-** | **-** | **-** | **-** | **-** | **9.000** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Item Number / Title [DODIC]:** BU3610 / WW Tech Con Imp Prog (WWTCIP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 2.975 | 15.931 | 9.000 | - | 9.000 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **2.975** | **15.931** | **9.000** | **-** | **9.000** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 73 | **P-1 Line Item Number / Title:** BU0500 / Installation Info Infrastructure Mod Program | **Item Number / Title [DODIC]:** BU3610 / WW Tech Con Imp Prog (WWTCIP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Program Management Administration | | 2016 | PM DCATS / Ft. Belvoir, VA | Various | PM DCATS, Fort Belvoir, VA | Oct 2015 | Nov 2015 | 1 | 730.000 | N | | |
| Program Management Administration | | 2017 | PM DCATS / Ft. Belvoir, VA | Various | PM DCATS, Fort Belvoir | Oct 2016 | Nov 2016 | 1 | 1,199.000 | | | |
| Program Management Administration | | 2018 | PM DCATS / Ft. Belvoir, VA | Various | PM DCATS, Fort Belvoir, VA | Oct 2017 | Nov 2017 | 1 | 2,698.000 | N | | |
| Engineer, Install & Test | | 2016 | ISEC / Fort Huachuca, AZ | MIPR | PEO EIS, Ft. Belvoir, VA | Oct 2015 | Dec 2015 | 1 | 2,245.000 | N | | |
| Engineer, Install & Test | | 2017 | ISEC / Fort Huachuca, AZ | MIPR | PEO EIS, Ft. Belvoir, VA | Oct 2016 | Dec 2016 | 1 | 1,722.000 | N | | |
| Engineer, Install & Test | | 2018 | ISEC / Fort Huachuca, AZ | MIPR | PEO EIS, Fort Belvoir, VA | Oct 2017 | Dec 2017 | 1 | 4,324.000 | | | |
| Engineer, Install & Test Kabul Embassy - OCO | | 2017 | Various / Various | TBD | PEO EIS, Ft. Belvoir, VA | Oct 2016 | Dec 2016 | 1 | 13,010.000 | N | | |
| Technical Control Facility Upgrades | | 2018 | TBD / TBD | Various | PM DCATS, Fort Belvoir, VA | Jan 2018 | Mar 2018 | 1 | 1,978.000 | N | | |

**Remarks:**
WWTCIP procurements consist of COTS/GOTS products.
PM DCATS - Project Manager, Defense Communications and Army Transmission Systems (DCATS); PEO EIS - Program Executive Office Enterprise Information Systems.
CPN-X - Coalition Partner Network - Kuwait

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** V29600 / JTT/CIBS-M |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 315.008 | 0.881 | 5.337 | 12.154 | - | 12.154 | 0.924 | 0.940 | 0.963 | 0.987 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 315.008 | 0.881 | 5.337 | 12.154 | - | 12.154 | 0.924 | 0.940 | 0.963 | 0.987 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **315.008** | **0.881** | **5.337** | **12.154** | **-** | **12.154** | **0.924** | **0.940** | **0.963** | **0.987** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Joint Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports all of the Joint Services and Special Operations Command (SOCOM). The IBS is the worldwide DoD standard network enterprise for transmitting time-sensitive tactical intelligence and targeting data to all echelons of Joint Service operational Users. The JPO's role is to coordinate modernization and sustainment of IBS terminals compatible with the UHF SATCOM IBS broadcasts. The transmit/receive-capable Joint Tactical Terminal (JTT) systems satisfy the radio communication Key Performance Parameters for the IBS Program. The JTT is the official IBS producer system, and ensures continued IBS interoperability to a variety of tactical producers/consumers across the Joint Services. JPO IBS Terminals performs JTT life cycle program management through acquisition, fielding support and sustainment of recently upgraded JTT equipment. The JPO coordinates support as needed for the new IBS network that employs new crypto, a new Common Interactive Broadcast (CIB), and the Common Message Format (CMF). Funds support JTT configuration management, procurement of parts, JTT component obsolescence redesign/engineering, JTT sustainment coordination, JTT organic hardware depot establishment and JTT fielding support.

**Justification:**

FY2018 Base procurement dollars in the amount of $12.154 million funds support the start up of JTT organic hardware depot capabilities, continued component obsolescence and integration engineering, continued procurement of JTT-IBS initial spares, configuration management, sustainment, training, and fielding support. The FY 2018 funding request was increased to support the organic hardware depot start up, obsolescence engineering/integration, and procurement of initial spare parts.The approved Army Acquisition Objective is 994.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is also necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BZ7326 / Prophet Ground |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0304270A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 12 | 14 | - | - | - | - | - | - | - | - | - | 26 |
| Gross/Weapon System Cost *($ in Millions)* | 1,150.847 | 53.650 | - | - | - | - | - | - | - | - | - | 1,204.497 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,150.847 | 53.650 | - | - | - | - | - | - | - | - | - | 1,204.497 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,150.847** | **53.650** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **1,204.497** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 95,903.917 | 3,832.143 | - | - | - | - | - | - | - | - | - | 46,326.808 |

## Description:

Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. The PE is the tactical commander's sole organic ground-based Signals Intelligence (SIGINT)/Electronic Warfare system for the Brigade Combat Team (BCT), Stryker Brigade Combat Team (SBCT), and Battlefield Surveillance Brigade (BfSB). Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates the ability for rapid integration of Technical Insertions and Pre-Planned Product Improvements to ensure operational relevance. PM Prophet will modernize legacy systems to provide for fleet modernization to meet the requirements of the Prophet program and match the capabilities of the Prophet Enhanced sensors and platforms currently being fielded to the Army. In FY 2017, modifications to Prophet Enhanced began in the Modifications-In-Svc line, BZ9753.

Army Acquisition Objective (AAO): 225

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 14 | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 53.650 | - | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **14** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **53.650** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**

There is no FY 2018 Base procurement funding request.

IAW Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BZ7316 / DCGS-A (MIP) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0305208A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 3,234 | 2,561 | 2,171 | 2,717 | 720 | 3,437 | 2,633 | 2,090 | - | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 2,131.256 | 318.844 | 285.546 | 274.782 | 39.515 | 314.297 | 279.642 | 227.924 | - | - | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 2,131.256 | 318.844 | 285.546 | 274.782 | 39.515 | 314.297 | 279.642 | 227.924 | - | - | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **2,131.256** | **318.844** | **285.546** | **274.782** | **39.515** | **314.297** | **279.642** | **227.924** | **-** | **-** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 659.015 | 124.500 | 131.527 | 101.134 | 54.882 | 91.445 | 106.207 | 109.055 | - | - | Continuing | Continuing |

## Description:

Distributed Common Ground System - Army (DCGS-A) is the Intelligence, Surveillance and Reconnaissance (ISR) System of Systems (SoS) for Joint, Interagency, Allied, Coalition, and National data analysis, sharing and collaboration. The core functions of DCGS-A are: the vertical and horizontal synchronization of ISR Processing, Exploitation and Dissemination (PED) efforts; operations in a networked environment at multiple security levels; the control of select Army and joint sensor systems; the fusion of all acquired data and information, and distribution of relevant red (threat), gray (non-aligned), and environmental (weather and terrain) information; and providing the Warfighters' early warning and targeting capability. DCGS-A provides a single integrated ISR ground processing system composed of common components that are interoperable with sensors, other information sources, all Warfighting Functions, and the Defense Information & Intelligence Enterprise (DI2E). DCGS-A is fielded in Fixed, Mobile, and Portable configurations emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. As newer versions of the baseline software are tested and released, a continuing series of software releases will be integrated into Army common/commodity hardware and fielded to units in accordance with (IAW) the Army Force Modernization Strategy and the Army Resourcing Priority List (ARPL).

DCGS-A is designated as a Program of Record (PoR) within the Command Post Computing Environment (CP CE) of the Common Operating Environment (COE). DCGS-A provides the Single and Shareable Geospatial Foundation (SSGF) Cross Cutting Capability (CCC), and is defining the DCGS-A architecture to fit within the COE as described by the Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA(ALT)) COE Implementation Plan. This is in accordance with the G-3/5/7 priority to align all Army networks, procurements and enhancements under one COE and one vision leveraging intelligence community investments. PM DCGSA continues to work with PM Mission Command (PM MC) to converge on CP CE Tactical Server Infrastructure (TSI) for FY19 fielding.

DCGS-A hardware and software is based on a combination of Government Off The Shelf (GOTS), Commercial Off The Shelf (COTS), and Non-Developmental Items (NDI) that are integrated into scalable configurations, tailored to Warfighting functions. These product line components include the software baseline, server suite [Intelligence Fusion Server (IFS)] and individual analyst Multi-Function Workstations (MFWS), such as Portable and Fixed MFWS (P-MFWS/F-MFWS) and the Geospatial Intelligence (GEOINT) Workstation. These components are also used to upgrade existing fielded Intel Programs of Record to enable the establishment of the Army COE while simultaneously assuring system compatibility and interoperability within the DCGS-A enterprise.

DCGS-A is designated as a Major Automation Information System (MAIS), and is deployed on multiple hardware platforms and security levels across the Army. The DCGS-A Increment 1 Full Deployment Decision (FDD) Acquisition Decision Memorandum (ADM) dated 14 November 2012, authorizes continued deployment of Release 1 capabilities. The DCGS-A Increment 1 Release 2 Fielding Acquisition Decision Memorandum (ADM) was approved by the Army Acquisition Executive (AAE) on 4 November 2015 after a successful Follow-On Test and Evaluation (FOT&E) event in May 2015.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BZ7316 / DCGS-A (MIP) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0305208A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

DCGS-A ISR capabilities are deployed at all echelons across the Army. DCGS-A consolidates and modernizes the Army ISR PED capabilities from 14 legacy Program of Record (POR) systems and significantly reduces their sustainment burdens.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 1,626 | 1,470 | 2,717 | 720 | 3,437 | 2,633 | 2,090 | - | - |
| | Total Obligation Authority | 264.199 | 231.170 | 274.782 | 39.515 | 314.297 | 279.642 | 227.924 | - | - |
| ANG | Quantity | 587 | 573 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 49.990 | 49.711 | - | - | - | - | - | - | - |
| AR | Quantity | 348 | 128 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 4.655 | 4.665 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **2,561** | **2,171** | **2,717** | **720** | **3,437** | **2,633** | **2,090** | **-** | **-** |
| | **Total Obligation Authority** | **318.844** | **285.546** | **274.782** | **39.515** | **314.297** | **279.642** | **227.924** | **-** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BZ7316 / DCGS-A (MIP) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0305208A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) | Quantity / Total Cost (Each) I ($ M) |
| P-5 | BZ7316 / DCGS-A (MIP) | P-5a | | | 3,234 / 2,131.256 | 2,561 / 318.844 | 2,171 / 285.546 | 2,717 / 274.782 | 720 / 39.515 | 3,437 / 314.297 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **3,234 / 2,131.256** | **2,561 / 318.844** | **2,171 / 285.546** | **2,717 / 274.782** | **720 / 39.515** | **3,437 / 314.297** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY2018 Base funding in the amount of $274.782 million will update and procure components for the DCGS-A Fixed Sites and Army, Reserve, and National Guard units, providing fixed and portable system configurations IAW the Army's Equipping Strategy. The DCGS-A updates will continue to enhance the Army ISR PED capabilities to meet new threats or emerging capability needs. Funding supports the ARPL by equipping and training the force as well as deploying units with the current DCGS-A software release. Funding will also provide for the acquisition of the Cross Domain Solution Suite (CDSS) which continues to support the fielding of Release 2 High Side software. Fielding of the Release 2 includes High Side capability at the Brigade level. To meet the ARPL fielding schedule, the PM has ramped up to 5 training teams which will support the accelerated fielding of Release 2 software and potential Capability Drops. Funding also procures new COTS software licenses to enhance performance of fielded systems, as well as support integration of Intelligence Community investments. DCGS-A supports the Army's Geospatial Transformation by providing an integrated visualization capability for intelligence, terrain, and weather effects in a net centric environment. Funding will also support continued alignment with Army COE objectives.

FY2018 OCO funding in the amount of $39.515 million is required to procure hardware and software to permit deployed units to conduct intelligence reach and reach-back operations. Funding will also procure the required hardware and software needed to maintain the effectiveness of DCGS-A capabilities and servers supporting in-theater Intelligence, Surveillance, and Reconnaissance (ISR).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

COMMENT: Quantities on the P40 breakdown do not equal quantities on the P5 because systems are comprised of varying configurations of hardware and software components.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP) | Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP) |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 3,234 | 2,561 | 2,171 | 2,717 | 720 | 3,437 |
| Gross/Weapon System Cost *($ in Millions)* | 2,131.256 | 318.844 | 285.546 | 274.782 | 39.515 | 314.297 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 2,131.256 | 318.844 | 285.546 | 274.782 | 39.515 | 314.297 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **2,131.256** | **318.844** | **285.546** | **274.782** | **39.515** | **314.297** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 659.015 | 124.500 | 131.527 | 101.134 | 54.882 | 91.445 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Tactical ISR Grd Station (TGS/DE CGS)(†) | - | - | 1,374.396 | 2,277.000 | 16 | 36.432 | - | - | - | 2,277.000 | 5 | 11.385 | 2,277.000 | 3 | 6.831 | 2,277.000 | 8 | 18.216 |
| ISR Process Ctr - V1 (IPC V1/DE ACE)(†) | 3,207.000 | 3 | 9.621 | 1,200.000 | 4 | 4.800 | - | - | - | 2,000.000 | 3 | 6.000 | - | - | - | 2,000.000 | 3 | 6.000 |
| Oper ISR Grnd Station (OGS/SIPC)(†) | - | - | 24.128 | 9,000.000 | 3 | 27.000 | - | - | - | - | - | - | - | - | - | - | - | - |
| OGS Refresh/ Repair(†) | - | - | - | - | - | 2.200 | - | - | - | 2,200.000 | 1 | 2.200 | - | - | - | 2,200.000 | 1 | 2.200 |
| ISR Process Ctr V2 (IPC V2/DE ACT-E )(†) | - | - | 32.720 | 1,685.000 | 16 | 26.960 | 1,685.000 | 22 | 37.070 | 1,200.000 | 3 | 3.600 | 1,200.000 | 17 | 20.400 | 1,200.000 | 20 | 24.000 |
| Cross Domain Solution Suite (CDSS)(†) | - | - | - | - | - | - | 50.000 | 67 | 3.350 | 135.000 | 51 | 6.885 | - | - | - | 135.000 | 51 | 6.885 |
| GEOINT WS (GWS/ DE DTSS-D)(†) | 364.600 | 65 | 23.699 | 141.000 | 147 | 20.727 | 166.000 | 134 | 22.244 | 245.000 | 133 | 32.585 | - | - | - | 245.000 | 133 | 32.585 |
| Intel Fusion Server (IFS)(†) | 2,412.500 | 16 | 38.600 | 289.101 | 208 | 60.133 | 235.000 | 200 | 47.000 | - | - | - | - | - | - | - | - | - |
| Intel Fusion Server (IFS) (TSI Config)(†) | - | - | - | - | - | - | - | - | - | 196.000 | 238 | 46.648 | - | - | - | 196.000 | 238 | 46.648 |
| Portable (P)Multi Function WorkSta.(†) | 46.565 | 4,527 | 210.800 | 5.000 | 1,705 | 8.525 | 5.000 | 1,501 | 7.505 | 2.501 | 967 | 2.418 | 2.500 | 114 | 0.285 | 2.500 | 1,081 | 2.703 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP) | Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP) |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Fixed (F)-Multi Function WorkStations(†) | - | - | - | - | - | - | - | - | - | 18.000 | 370 | 6.660 | - | - | - | 18.000 | 370 | 6.660 |
| TPE H/W S/W Refresh | - | - | 7.200 | - | - | 10.880 | - | - | - | - | - | - | - | - | - | - | - | - |
| Fixed Site Refresh | - | - | - | - | - | 22.600 | - | - | 2.500 | - | - | 5.400 | - | - | - | - | - | 5.400 |
| Equipment Tech Refresh | - | - | - | - | - | - | - | - | 85.054 | - | - | 58.834 | - | - | - | - | - | 58.834 |
| Software Licenses for Int. on DCGS HW | - | - | 122.997 | - | - | 21.000 | - | - | 13.467 | - | - | 33.224 | - | - | - | - | - | 33.224 |
| Program Office Support | - | - | 101.747 | - | - | 12.818 | - | - | 11.050 | - | - | 11.100 | - | - | - | - | - | 11.100 |
| Software Integration on to DCGS HW | - | - | 21.700 | - | - | 5.939 | - | - | 5.150 | - | - | 5.005 | - | - | - | - | - | 5.005 |
| Fielding/Training | - | - | 139.371 | - | - | 36.365 | - | - | 31.560 | - | - | 19.500 | - | - | 11.999 | - | - | 31.499 |
| Technical Engineering Services | - | - | 24.277 | - | - | 21.180 | - | - | 18.284 | - | - | 22.000 | - | - | - | - | - | 22.000 |
| Data | - | - | - | - | - | 1.286 | - | - | 1.312 | - | - | 1.338 | - | - | - | - | - | 1.338 |
| *Subtotal: Recurring Cost* | - | - | *2,131.256* | - | - | *318.845* | - | - | *285.546* | - | - | *274.782* | - | - | *39.515* | - | - | *314.297* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***2,131.256*** | **-** | **-** | ***318.845*** | **-** | **-** | ***285.546*** | **-** | **-** | ***274.782*** | **-** | **-** | ***39.515*** | **-** | **-** | ***314.297*** |
| **Gross/Weapon System Cost** | **659.015** | **3,234** | **2,131.256** | **124.500** | **2,561** | **318.844** | **131.527** | **2,171** | **285.546** | **101.134** | **2,717** | **274.782** | **54.882** | **720** | **39.515** | **91.445** | **3,437** | **314.297** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 1,626 | 1,470 | 2,717 | 720 | 3,437 |
| | Total Obligation Authority | 264.199 | 231.170 | 274.782 | 39.515 | 314.297 |
| ANG | Quantity | 587 | 573 | - | - | - |
| | Total Obligation Authority | 49.990 | 49.711 | - | - | - |
| AR | Quantity | 348 | 128 | - | - | - |
| | Total Obligation Authority | 4.655 | 4.665 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **2,561** | **2,171** | **2,717** | **720** | **3,437** |
| | **Total Obligation Authority** | **318.844** | **285.546** | **274.782** | **39.515** | **314.297** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BZ7316 / DCGS-A (MIP) | Item Number / Title [DODIC]: BZ7316 / DCGS-A (MIP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tactical ISR Grd Station (TGS/DE CGS) | | 2016 | General Dynamics4 / Phoenix, AZ - TGS(DECGS) | C / FP | CECOM ACQ CENTER | Aug 2016 | Nov 2016 | 16 | 2,277.000 | | | |
| Tactical ISR Grd Station (TGS/DE CGS) | | 2018 | General Dynamics4 / Phoenix, AZ - TGS(DECGS) | C / FP | CECOM ACQ CENTER | Aug 2018 | Nov 2018 | 8 | 2,277.000 | | | |
| ISR Process Ctr - V1 (IPC V1/DE ACE) | | 2016 | General Dynamics6 / Taunton, MA - (IPC V1) | C / FP | CECOM ACQ CENTER | Jul 2016 | Oct 2016 | 4 | 1,200.000 | | | |
| ISR Process Ctr - V1 (IPC V1/DE ACE) | | 2018 | General Dynamics6 / Taunton, MA - (IPC V1) | C / FP | CECOM ACQ CENTER | Jun 2018 | Oct 2018 | 3 | 2,000.000 | | | |
| Oper ISR Grnd Station (OGS/SIPC) | | 2016 | CACI / Elkridge, NJ (OGS) | C / CPFF | CECOM ACQ CENTER | Jun 2016 | Sep 2016 | 3 | 9,000.000 | | | |
| Oper ISR Grnd Station (OGS/SIPC) | | 2018 | CACI / Elkridge, NJ (OGS) | C / CPFF | CECOM ACQ CENTER | Jun 2018 | Sep 2018 | 0 | 0.000 | Y | | |
| OGS Refresh/Repair | | 2018 | CACI / Elkridge, NJ (OGS) | C / CPFF | CECOM ACQ CENTER | Jun 2018 | Sep 2018 | 1 | 2,200.000 | | | |
| ISR Process Ctr V2 (IPC V2/DE ACT-E ) | | 2016 | General Dynamics2 / Taunton, MA - (IPC V2) | C / FP | CECOM ACQ CENTER | Jun 2016 | Sep 2016 | 16 | 1,685.000 | | | |
| ISR Process Ctr V2 (IPC V2/DE ACT-E ) | | 2017 | General Dynamics2 / Taunton, MA - (IPC V2) | C / FP | CECOM ACQ CENTER | Jun 2017 | Sep 2017 | 22 | 1,685.000 | | | |
| ISR Process Ctr V2 (IPC V2/DE ACT-E ) | | 2018 | General Dynamics2 / Taunton, MA - (IPC V2) | C / FP | CECOM ACQ CENTER | Jun 2018 | Sep 2018 | 20 | 1,200.000 | | | |
| Cross Domain Solution Suite (CDSS) | | 2017 | General Dynamics5 / Taunton, MA - MFWS | C / FP | CECOM ACQ CENTER | Apr 2017 | Jul 2017 | 67 | 50.000 | | | |
| Cross Domain Solution Suite (CDSS) | | 2018 | General Dynamics5 / Taunton, MA - MFWS | C / FP | CECOM ACQ CENTER | Apr 2018 | Jul 2018 | 51 | 135.000 | | | |
| GEOINT WS (GWS/DE DTSS-D) | | 2016 | General Dynamics1 / Taunton, MA - GWS | C / FP | CECOM ACQ CENTER | Mar 2016 | Jun 2016 | 147 | 141.000 | | | |
| GEOINT WS (GWS/DE DTSS-D) | | 2017 | General Dynamics1 / Taunton, MA - GWS | C / FP | CECOM ACQ CENTER | Mar 2017 | Jun 2017 | 134 | 166.000 | | | |
| GEOINT WS (GWS/DE DTSS-D) | | 2018 | General Dynamics1 / Taunton, MA - GWS | C / FP | CECECOM ACQ CENTER | Mar 2018 | Jun 2018 | 133 | 245.000 | | | |
| Intel Fusion Server (IFS) | | 2016 | General Dynamics2 / Taunton, MA - IFS | C / FP | CECOM ACQ CENTER | Mar 2016 | Jun 2016 | 208 | 289.100 | | | |
| Intel Fusion Server (IFS) | | 2017 | General Dynamics2 / Taunton, MA - IFS | C / FP | CECOM ACQ CENTER | Feb 2017 | May 2017 | 200 | 235.000 | | | |
| Intel Fusion Server (IFS) (TSI Config) | | 2018 | General Dynamics2 / Taunton, MA - IFS | C / FP | CECOM ACQ CENTER | Feb 2018 | Sep 2018 | 238 | 196.000 | | | |
| Portable (P)Multi Function WorkSta. | | 2016 | General Dynamics5 / Taunton, MA - MFWS | C / FP | CECOM ACQ CENTER | Mar 2016 | Jun 2016 | 1,705 | 5.000 | | | |
| Portable (P)Multi Function WorkSta. | | 2017 | General Dynamics5 / Taunton, MA - MFWS | C / FP | CECOM ACQ CENTER | Mar 2017 | Jun 2017 | 1,501 | 5.000 | | | |
| Portable (P)Multi Function WorkSta. | | 2018 | General Dynamics5 / Taunton, MA - MFWS | C / FP | CECOM ACQ CENTER | Mar 2018 | Jun 2018 | 1,081 | 2.500 | | | |

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BZ7316 / DCGS-A (MIP) | **Item Number / Title [DODIC]:** BZ7316 / DCGS-A (MIP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fixed (F)-Multi Function WorkStations | | 2018 | General Dynamics5 / Taunton, MA - MFWS | C / FP | CECOM ACQ CENTER | Mar 2018 | Jun 2018 | 370 | 18.000 | | | |

**Remarks:**
All DCGS-A hardware is comprised solely of COTS equipment. Based on the approved Army Cost Position in preparation for the Full Deployment Decision, the program office has updated the P-form to reflect software, system integration, engineering change proposals, and engineering support costs separately from the system unit costs.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BZ8401 / Joint Tactical Ground Station (JTAGS) |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0208053A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 2 | 1 | 4 | - | - | - | 5 | - | - | - | - | 12 |
| Gross/Weapon System Cost *($ in Millions)* | 39.482 | 9.325 | 4.417 | - | - | - | 5.434 | - | - | - | - | 58.658 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 39.482 | 9.325 | 4.417 | - | - | - | 5.434 | - | - | - | - | 58.658 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **39.482** | **9.325** | **4.417** | **-** | **-** | **-** | **5.434** | **-** | **-** | **-** | **-** | **58.658** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 19,741.000 | 9,325.000 | 1,104.250 | - | - | - | 1,086.800 | - | - | - | - | 4,888.167 |

## Description:

The Joint Tactical Ground Station (JTAGS) system provides the Army's only in-theater capability for directly downloading raw infrared data from the Defense Support Program satellites, processing this data into ballistic missile early warnings, alerting, cueing, and disseminating that information reliably to theater combatant commanders. JTAGS Block I, fielded since 1997, currently has five ground stations (four OCONUS deployed JTAGS units constitute DoD's only in-theater system providing space-based missile warning and the fifth CONUS system serves as a training system and a spare deployable asset). JTAGS systems are deployed in three theaters (PACOM, EUCOM, and CENTCOM). Obsolescence/Information Assurance issues coupled with the desire to take advantage of the Air Force's investment in newer satellites (Space Based Infrared System, SBIR) and their improved sensor's warning accuracy and timeliness, led to the Army's approval/initiation of a two phase JTAGS Pre-Planned Product Improvement (P3I) Block II program. JTAGS P3I Block II Phase 1 includes de-sheltering the system and upgrading hardware/software to address obsolescence/ Information Assurance issues. JTAGS P3I Block II Phase 2 activities are broken into three spirals to expedite getting critical capabilities fielded sooner. These capabilities are primarily software improvements designed to take full advantage of new sensors on orbit. FY 2017 funds completes procurement of JTAGS P3I Block II Phase 1 upgrades. Prior years funding began the procurement of the JTAGS P3I Block II Phase 1 upgrades. Two (2) of Five (5) Block II Phase I upgrades were procured with FY 2014 procurement dollars. FY 2019 funds will procure JTAGS P3I Block II Phase 2 software upgrades for the program's five systems.

Approved Acquisition Objective (AAO) is five systems.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 1 | 4 | - | - | - | 5 | - | - | - |
| | Total Obligation Authority | 9.325 | 4.417 | - | - | - | 5.434 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **1** | **4** | **-** | **-** | **-** | **5** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **9.325** | **4.417** | **-** | **-** | **-** | **5.434** | **-** | **-** | **-** |

**Justification:**
The Joint Tactical Ground Station (JTAGS) Program has no procurement funding in FY 2018.

| **Exhibit P-40, Budget Line Item Justification:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:**<br>BZ8401 / Joint Tactical Ground Station (JTAGS) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0208053A |
| **Line Item MDAP/MAIS Code:** N/A | | |

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BA0326 / TROJAN (MIP) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303032A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 13 | - | - | - | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 458.618 | 23.046 | 25.680 | 16.052 | 21.310 | 37.362 | 16.863 | 17.368 | 17.612 | 18.144 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 458.618 | 23.046 | 25.680 | 16.052 | 21.310 | 37.362 | 16.863 | 17.368 | 17.612 | 18.144 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **458.618** | **23.046** | **25.680** | **16.052** | **21.310** | **37.362** | **16.863** | **17.368** | **17.612** | **18.144** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 1,975.385 | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:

TROJAN, as an Army Intelligence system, has been providing direct support and an operational readiness capability to soldiers since 1983. TROJAN provides the tactical commander with remote access to signal environments, in order to maintain a high state of operational readiness and enhance the training and sustainment of highly perishable intelligence skills. Additionally, the TROJAN architecture provides the infrastructure enabling split-based and force protection operations in direct support of the warfighter.

TROJAN NexGEN, formerly TROJAN Classic XXI (TCXXI) advances the tactical commanders' readiness in the areas of training (technical and operational signals intelligence (SIGINT)), operational intelligence production and dissemination, and operational support to split-based intelligence operations supporting force protection operations. TROJAN NexGEN's principle use is to provide remote access to target environments, enabling split-based operations from a sanctuary by being the gateway interface to environments of immediate relevance to every supported commander's priority intelligence requirements. In addition, NexGEN will continue its role as an operational readiness system, while also supporting commanders' intelligence requirements across the spectrum of conflict.

TROJAN NexGEN is an intelligence and electronic warfare (IEW) system that supports the increased readiness of key mobilization personnel in preparation for actions in the mission areas of The Army Plan (TAP). NexGEN is capable of maintaining operational readiness status of unit personnel supporting the full spectrum of military operations as outlined in the Army Strategic Planning Guidance and Army Planning Guidance sections of the TAP.

TROJAN NexGEN provides operational readiness capability to an Army commander employing a rapid global response capability to any level of military conflict throughout the seven mission areas. By employing reach technology relay capabilities between the forward deployed sensors and the sanctuary-based Remote Operational Facilities (ROFs), NexGEN can meet the operational deployment timelines through the use of readiness training venues to meet the requirements of units from Brigade Combat Teams through Corps and Echelon Above Corps (EAC). This operational concept provides the unique capability to remotely control the sensors and direction finding capabilities of the Deployable Collection Assets (DCAs) and process and analyze the collected information for timely reporting of time-sensitive information to the forward deployed Army, Joint Service and Multi-National warfighters.

TROJAN SPIRIT provides Army units with dedicated, secure, high capacity, Sensitive Compartmented Information high intelligence data processing and communications. It provides a rapidly deployable, multi-level security, processor-to-processor, high capacity communications capability, and supports tactical to strategic reach-back, essential to split-based operations.

Joint Worldwide Intelligence Communications System (JWICS) Mobile Integrated Communications System (JMICS) is a Defense Intelligence Agency's (DIA) approved deployable version of a garrison JWICS with the Army G-2 (DAMI-IM) as the J2 appointed JMICS Program Manager with the responsibility for managing and sustaining JMICS, a deployable TS/SCI capability. JMICS is a self-contained mobile

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BA0326 / TROJAN (MIP) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0303032A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

communications system providing reach back and access to the Intelligence Community (IC) in support of Combatant Commanders, Joint Task Force (JTF) requirements and Service Commanders. The 14 JMICS systems provides JWICS video teleconferencing (VTC), TS/SCI and Secret/Collateral data and voice communications/reach back via JWICS and SIPRNET, secure telephones and other information support systems in a self-contained mobile configuration. JMICS also provides unclassified local area networks (LAN) capability via NIPRNET.

All funding goes to the Active Component.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | 13 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 23.046 | 25.680 | 15.752 | 21.310 | 37.062 | 16.563 | 17.068 | 17.312 | 17.544 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 0.150 | - | 0.150 | 0.150 | 0.150 | 0.150 | 0.300 |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | - | 0.150 | - | 0.150 | 0.150 | 0.150 | 0.150 | 0.300 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **13** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **23.046** | **25.680** | **16.052** | **21.310** | **37.362** | **16.863** | **17.368** | **17.612** | **18.144** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BA0326 / TROJAN (MIP) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0303032A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | BA0331 / TROJAN CLASSIC (MIP) | P-5a | | | - / 233.431 | - / 5.864 | - / 12.705 | - / 7.619 | - / 21.310 | - / 28.929 |
| P-5 | BA0333 / TROJAN SPIRIT - TERMINALS (MIP) | P-5a | | | - / 225.187 | - / 17.182 | 13 / 12.975 | - / 8.433 | - / - | - / 8.433 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 458.618** | **- / 23.046** | **13 / 25.680** | **- / 16.052** | **- / 21.310** | **- / 37.362** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base funding in the amount of $16.052 million funds the following TROJAN NexGEN and TROJAN SPIRIT requirements:

- TROJAN NexGEN: Funds collection and processing system upgrades required to maintain the TROJAN NexGEN system strategic architecture commonality. Funding is used for the procurement of material (hardware/software) in support of planned TROJAN NexGEN upgrades and fielding activities to include fixed and mobile collection platforms, multi-band signal search and acquisition survey systems, fielding, modernization of existing sites, and upgrades to Network Control Centers to support NSA-approved architecture for network infrastructures.

- TROJAN SPIRIT: Funds procure pre-planned product improvements for modernization/refresh of TROJAN SPIRIT LITE (V)1/(V)2/(V)3 systems to include bulk transport (bulk encrypted) network upgrades, increased bandwidth upgrades to Mbps throughput, X and Ka Band upgrades, replacement of end-of-life or out dated hardware, and TROJAN Network Control Center (TNCC)/TROJAN Network Operations Center (TNOC) interface upgrades. Funds the upgrades and support of TROJAN SPIRIT terminals required for current and emerging operational missions in support of Regionally Aligned Forces (RAF), Global Response Forces (GRF) and Army Contingency Forces (ACF) until capability is fielded by PM mission command.

FY 2018 OCO funding in the amount of $21.310 million funds the following requirements:

- TROJAN NexGEN: FY2018 OCO funding in the amount of $16.110 million funds support to contingency operations: refresh, upgrade, and conversion of the TRIIC Hub into a mobile capability; supports the annual maintenance and refresh of deployed TROJAN NexGEN systems; purchases the hardware, software, and equipment required to establish the Wiesbaden TNCC in order to improve intelligence capabilities and support to OEF, PACOM, and Africa.

- JMICS: FY2018 OCO funding in the amount of $5.2 million funds system recapitalization / refresh of two (2) JMICS systems: consists of a new shelter, vehicle, SATCOM transport system, tentage / shelter for T-SCIF, Tandberg VTC, VOIP phones, network equipment (servers, switches, workstations, secure devices), labor support (engineering, program management, tech support, documentation, TDY, training and delivery), and configuration management.

In accordance with Section 1815 of the FY 2018 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BA0326 / TROJAN (MIP) | Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC (MIP) |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 233.431 | 5.864 | 12.705 | 7.619 | 21.310 | 28.929 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 233.431 | 5.864 | 12.705 | 7.619 | 21.310 | 28.929 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **233.431** | **5.864** | **12.705** | **7.619** | **21.310** | **28.929** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware(†) | 3,112.421 | 57 | 177.408 | 1,080.200 | 5 | 5.401 | 1,312.778 | 9 | 11.815 | 1,417.000 | 5 | 7.085 | 1,681.833 | 12 | 20.182 | 1,603.941 | 17 | 27.267 |
| Integration/Fielding (TROJAN) | 18,674.333 | 3 | 56.023 | 463.000 | 1 | 0.463 | 890.000 | 1 | 0.890 | 534.000 | 1 | 0.534 | 564.000 | 2 | 1.128 | 554.000 | 3 | 1.662 |
| *Subtotal: Recurring Cost* | - | - | *233.431* | - | - | *5.864* | - | - | *12.705* | - | - | *7.619* | - | - | *21.310* | - | - | *28.929* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***233.431*** | **-** | **-** | ***5.864*** | **-** | **-** | ***12.705*** | **-** | **-** | ***7.619*** | **-** | **-** | ***21.310*** | **-** | **-** | ***28.929*** |
| **Gross/Weapon System Cost** | **-** | **-** | **233.431** | **-** | **-** | **5.864** | **-** | **-** | **12.705** | **-** | **-** | **7.619** | **-** | **-** | **21.310** | **-** | **-** | **28.929** |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Element Breakout | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware | 3,112.421 | 57 | 177.408 | 1,080.200 | 5 | 5.401 | 1,312.778 | 9 | 11.815 | 1,417.000 | 5 | 7.085 | 1,681.833 | 12 | 20.182 | 1,603.941 | 17 | 27.267 |
| Hardware (TROJAN) | 3,112.421 | 57 | 177.408 | 1,080.200 | 5 | 5.401 | 1,312.778 | 9 | 11.815 | 1,417.000 | 5 | 7.085 | 1,498.200 | 10 | 14.982 | 1,471.133 | 15 | 22.067 |
| Hardware (JMICS) | - | - | - | - | - | - | - | - | - | - | - | - | 2,600.000 | 2 | 5.200 | 2,600.000 | 2 | 5.200 |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 5.864 | 12.705 | 7.619 | 21.310 | 28.929 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BA0326 / TROJAN (MIP) | **Item Number / Title [DODIC]:** BA0331 / TROJAN CLASSIC (MIP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 5.864 | 12.705 | 7.619 | 21.310 | 28.929 |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BA0326 / TROJAN (MIP) | Item Number / Title [DODIC]: BA0331 / TROJAN CLASSIC (MIP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hardware | | 2016 | CACI (TROJAN) / APG | C / CPFF | CECOM | Aug 2015 | Aug 2016 | 5 | 1,080.200 | | | |
| Hardware | | 2017 | CACI (TROJAN) / APG | C / CPFF | CECOM | Aug 2016 | Aug 2017 | 9 | 1,312.780 | | | |
| Hardware | | 2018 | CACI (TROJAN) / APG | C / CPFF | CECOM | Aug 2017 | Aug 2018 | 15 | 1,603.940 | | | |
| Hardware | | 2018 | LEIDOS (JMICS) / TBD | C / CPFF | NAVAIR | Aug 2017 | Aug 2018 | 2 | 1,603.940 | | | |

**Remarks:**
CACI is the prime contractor for TROJAN NexGEN. The period of performance for base and option years is 28 AUG to 27 AUG. Contract is currently in option year 1 which ends 27 August 2017.

LEIDOS is the prime contractor for JMICS. The period of performance for base and option years is 17 AUG to 18 AUG.

All items procured are COTS/GOTS.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BA0326 / TROJAN (MIP) | Item Number / Title [DODIC]: BA0333 / TROJAN SPIRIT - TERMINALS (MIP) |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 13 | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 225.187 | 17.182 | 12.975 | 8.433 | - | 8.433 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 225.187 | 17.182 | 12.975 | 8.433 | - | 8.433 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **225.187** | **17.182** | **12.975** | **8.433** | **-** | **8.433** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 998.077 | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware(†) | 349.747 | 367 | 128.357 | 145.887 | 106 | 15.464 | 241.587 | 46 | 11.113 | 186.450 | 40 | 7.458 | - | - | - | 186.450 | 40 | 7.458 |
| Integration/Fielding | 32,276.667 | 3 | 96.830 | 859.000 | 2 | 1.718 | 931.000 | 2 | 1.862 | 975.000 | 1 | 0.975 | - | - | - | 975.000 | 1 | 0.975 |
| *Subtotal: Recurring Cost* | - | - | *225.187* | - | - | *17.182* | - | - | *12.975* | - | - | *8.433* | - | - | - | - | - | *8.433* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***225.187*** | **-** | **-** | ***17.182*** | **-** | **-** | ***12.975*** | **-** | **-** | ***8.433*** | **-** | **-** | **-** | **-** | **-** | ***8.433*** |
| **Gross/Weapon System Cost** | **-** | **-** | **225.187** | **-** | **-** | **17.182** | **998.077** | **13** | **12.975** | **-** | **-** | **8.433** | **-** | **-** | **-** | **-** | **-** | **8.433** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | 13 | - | - | - |
| | Total Obligation Authority | 17.182 | 12.975 | 8.133 | - | 8.133 |
| ANG | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | - | 0.150 | - | 0.150 |
| AR | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | - | 0.150 | - | 0.150 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **13** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **17.182** | **12.975** | **8.433** | **-** | **8.433** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BA0326 / TROJAN (MIP) | **Item Number / Title [DODIC]:** BA0333 / TROJAN SPIRIT - TERMINALS (MIP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hardware | | 2015 | CACI / APG | C / CPFF | CECOM | Jun 2015 | Sep 2015 | 51 | 169.980 | | | |
| Hardware | | 2016 | CACI / APG | C / CPFF | CECOM | Sep 2015 | Sep 2016 | 106 | 145.890 | | | |
| Hardware | | 2017 | CACI / APG | C / CPFF | CECOM | Sep 2016 | Sep 2017 | 46 | 241.590 | | | |
| Hardware | | 2018 | CACI / APG | C / CPFF | CECOM | Sep 2017 | Sep 2018 | 40 | 186.450 | | | |

**Remarks:**
Hardware is a combination of Government off-the-Shelf (GOTS) and Commercial off-the-Shelf (COTS) products obtained from Global SATCOM, CACI and related vendors.

CACI is the prime contractor TROJAN SPIRIT. The period of performance for base and option years is 30 SEP to 29 SEP. Contract is currently in option year 1 which ends on 29 Sep 2017.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 8 | 10 | 22 | 42 | 12 | 54 | 12 | 11 | - | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 184.962 | 3.978 | 45.505 | 51.034 | 2.300 | 53.334 | 46.114 | 40.562 | 11.669 | - | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 184.962 | 3.978 | 45.505 | 51.034 | 2.300 | 53.334 | 46.114 | 40.562 | 11.669 | - | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **184.962** | **3.978** | **45.505** | **51.034** | **2.300** | **53.334** | **46.114** | **40.562** | **11.669** | **-** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 23,120.250 | 397.800 | 2,068.409 | 1,215.095 | 191.667 | 987.667 | 3,842.833 | 3,687.455 | - | - | Continuing | Continuing |

## Description:

Special Purpose Systems (BZ9751): Technical Insertions (TI) will be made to the ground-based Signals Intelligence (SIGINT) system with additional capabilities required by theater units to effectively engage enemy forces and provide Force Protection information to friendly forces. Procure Government and Commercial off-the-shelf (GOTS/COTS) Next Generation SIGINT capabilities that are theater specific and enable the Prophet system to address specific threats and Signals of Interest (SOI). Prophet Enhanced is the tactical commander's sole organic ground-based SIGINT/Electronic Warfare system for the Multi-Function Teams (MfTs), Stryker Brigade Combat Teams (SBCTs), and Expeditionary-Military Intelligence Brigades (E-MIBs). Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates the ability for rapid integration of TI to ensure operational relevance.

Prophet Enhanced Modifications MIP (BZ9753): In FY18, PdM Prophet will continue modification to retrofit, test, train, and support previously fielded Prophet Enhanced systems not currently hosted on a prime mover to the latest mounted configuration. Prophet Enhanced is the tactical commander's sole organic ground-based SIGINT/Electronic Warfare system for the Multi-Function Teams (MfTs), Stryker Brigade Combat Teams (SBCTs), and Expeditionary-Military Intelligence Brigades (E-MIBs). Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. It also incorporates the ability for rapid integration of Technical Insertions to ensure operational relevance.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 10 | 22 | 42 | 12 | 54 | 12 | 11 | - | - |
| | Total Obligation Authority | 3.978 | 45.505 | 51.034 | 2.300 | 53.334 | 46.114 | 40.562 | 11.669 | - |
| **Total: Secondary Distribution** | **Quantity** | **10** | **22** | **42** | **12** | **54** | **12** | **11** | **-** | **-** |
| | **Total Obligation Authority** | **3.978** | **45.505** | **51.034** | **2.300** | **53.334** | **46.114** | **40.562** | **11.669** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:**<br>BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP) | P-5a | | | 8 / 123.271 | 10 / 3.978 | 10 / 4.055 | - / 4.241 | - / - | - / 4.241 |
| P-5 | BZ9753 / Prophet Enhanced Modifications (MIP) | P-5a, P-21 | | | - / 61.691 | - / - | 12 / 41.450 | 42 / 46.793 | 12 / 2.300 | 54 / 49.093 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **8 / 184.962** | **10 / 3.978** | **22 / 45.505** | **42 / 51.034** | **12 / 2.300** | **54 / 53.334** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2018 Base procurement funding in the amount of $4.241 million will support the implementation of Modern signal-of-interest (SOI) enhancements for Prophet Enhanced. An upgraded software capability will ensure that Prophet remains relevant against modern threats, providing an open architecture that allows capability integration to address advanced signal types in a constantly changing spectrum environment. There will be no hardware purchased in FY18, therefore a specific quantity cannot be applied to the distribution.

FY 2018 Base procurement funding in the amount of $46.793 million supports the modification of 12 legacy systems, procurement of 30 dismount SIGINT Manpacks, plus associated support, integration and testing for these systems. FY2018 Training/Fielding represents the delivery and New Equipment Training (NET) of the FY2017 Prophet Enhanced systems.

FY2018 OCO procurement funding in the amount of $2.300 million procures 12 dismount SIGINT Manpacks; six of the Manpacks will be fielded to units located within the U.S. Army Europe (USAREUR) area of responsibility and six of the Manpacks will be fielded to units within the Global Response Force (GRF) area of responsibility.

All funding is for the Active component.

Army Acquisition Objective (AAO): 225

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | **Item Number / Title [DODIC]:** BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 8 | 10 | 10 | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 123.271 | 3.978 | 4.055 | 4.241 | - | 4.241 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 123.271 | 3.978 | 4.055 | 4.241 | - | 4.241 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **123.271** | **3.978** | **4.055** | **4.241** | **-** | **4.241** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 15,408.875 | 397.800 | 405.500 | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Next Generation Stationary Receiver(†) | 1,204.500 | 2 | 2.409 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Advanced Processor(†) | 20,143.500 | 6 | 120.861 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Next Generation SIGINT Hardware(†) | - | - | 0.001 | 397.800 | 10 | 3.978 | - | - | - | - | - | - | - | - | - | - | - | - |
| Next Generation Hardware (Manpack)(†) | - | - | - | - | - | - | 250.000 | 10 | 2.500 | - | - | - | - | - | - | - | - | - |
| Software Upgrades & Integration | - | - | - | - | - | - | - | - | 1.000 | - | - | 4.241 | - | - | - | - | - | 4.241 |
| Logistics Products | - | - | - | - | - | - | - | - | 0.555 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *123.271* | - | - | *3.978* | - | - | *4.055* | - | - | *4.241* | - | - | - | - | - | *4.241* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***123.271*** | **-** | **-** | ***3.978*** | **-** | **-** | ***4.055*** | **-** | **-** | ***4.241*** | **-** | **-** | **-** | **-** | **-** | ***4.241*** |
| **Gross/Weapon System Cost** | **15,408.875** | **8** | **123.271** | **397.800** | **10** | **3.978** | **405.500** | **10** | **4.055** | **-** | **-** | **4.241** | **-** | **-** | **-** | **-** | **-** | **4.241** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 10 | 10 | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | **Item Number / Title [DODIC]:** BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| | Total Obligation Authority | 3.978 | 4.055 | 4.241 | - | 4.241 |
| **Total: Secondary Distribution** | **Quantity** | **10** | **10** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **3.978** | **4.055** | **4.241** | **-** | **4.241** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | Item Number / Title [DODIC]: BZ9751 / SPECIAL PURPOSE SYSTEMS (MIP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Next Generation Stationary Receiver | | 2015 | General Dynamics C4 / Scottsdale, AZ | C / FFP | APG, MD | Feb 2015 | Oct 2015 | 2 | 780.500 | | | |
| Advanced Processor | | 2015 | General Dynamics C4 / Scottsdale, AZ | C / FFP | APG, MD | Feb 2015 | Oct 2015 | 6 | 390.000 | | | |
| Next Generation SIGINT Hardware | | 2016 | General Dynamics C4 / Scottsdale, AZ | SS / FFP | APG, MD | Nov 2015 | Nov 2016 | 10 | 397.800 | | | |
| Next Generation Hardware (Manpack) | | 2017 | GD Mission Systems / Scottsdale, AZ | SS / FFP | APG, MD | Jun 2017 | Nov 2017 | 10 | 250.000 | | | |

**Remarks:**
FY 2018 Base procurement funding in the amount of $4.241 million will support the implementation of modern signal-of-interest software upgrades for Prophet Enhanced; there will be no hardware purchased in FY18, therefore a specific quantity can not be applied to the distribution.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | **Item Number / Title [DODIC]:** BZ9753 / Prophet Enhanced Modifications (MIP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 12 | 42 | 12 | 54 |
| Gross/Weapon System Cost *($ in Millions)* | 61.691 | - | 41.450 | 46.793 | 2.300 | 49.093 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 61.691 | - | 41.450 | 46.793 | 2.300 | 49.093 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **61.691** | **-** | **41.450** | **46.793** | **2.300** | **49.093** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 3,454.167 | 1,114.119 | 191.667 | 909.130 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Prophet Enhanced Legacy Modification(†) | - | - | 61.691 | - | - | - | 1,200.000 | 12 | 14.400 | 1,200.000 | 12 | 14.400 | - | - | - | 1,200.000 | 12 | 14.400 |
| Integration & Testing | - | - | - | - | - | - | - | - | 6.344 | - | - | 6.408 | - | - | - | - | - | 6.408 |
| Program Quality Management | - | - | - | - | - | - | - | - | 2.850 | - | - | 2.934 | - | - | - | - | - | 2.934 |
| GFE | - | - | - | - | - | - | - | - | 0.465 | - | - | 0.727 | - | - | - | - | - | 0.727 |
| Software Engineering | - | - | - | - | - | - | - | - | 3.294 | - | - | 3.360 | - | - | - | - | - | 3.360 |
| Project Management Costs | - | - | - | - | - | - | - | - | 3.273 | - | - | 3.000 | - | - | - | - | - | 3.000 |
| Training/Fielding/ Depot Support | - | - | - | - | - | - | - | - | 9.334 | - | - | 9.414 | - | - | - | - | - | 9.414 |
| Matrix Support | - | - | - | - | - | - | - | - | 1.490 | - | - | 0.800 | - | - | - | - | - | 0.800 |
| Manpack | - | - | - | - | - | - | - | - | - | 191.667 | 30 | 5.750 | 191.667 | 12 | 2.300 | 191.667 | 42 | 8.050 |
| *Subtotal: Recurring Cost* | - | - | *61.691* | - | - | - | - | - | *41.450* | - | - | *46.793* | - | - | *2.300* | - | - | *49.093* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***61.691*** | **-** | **-** | **-** | **-** | **-** | ***41.450*** | **-** | **-** | ***46.793*** | **-** | **-** | ***2.300*** | **-** | **-** | ***49.093*** |
| **Gross/Weapon System Cost** | **-** | **-** | **61.691** | **-** | **-** | **-** | **3,454.167** | **12** | **41.450** | **1,114.119** | **42** | **46.793** | **191.667** | **12** | **2.300** | **909.130** | **54** | **49.093** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | **Item Number / Title [DODIC]:** BZ9753 / Prophet Enhanced Modifications (MIP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | 12 | 42 | 12 | 54 |
| | Total Obligation Authority | - | 41.450 | 46.793 | 2.300 | 49.093 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **12** | **42** | **12** | **54** |
| | **Total Obligation Authority** | **-** | **41.450** | **46.793** | **2.300** | **49.093** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | Item Number / Title [DODIC]: BZ9753 / Prophet Enhanced Modifications (MIP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prophet Enhanced Legacy Modification(†) | | 2017 | GD Mission Systems / Scottsdale, AZ | SS / FFP | APG, MD | Jun 2017 | Mar 2018 | 12 | 1,200.000 | | | |
| Prophet Enhanced Legacy Modification(†) | | 2018 | GD Mission Systems / Scottsdale, AZ | SS / FFP | APG, MD | Feb 2018 | Nov 2018 | 12 | 1,200.000 | | | |

(†) indicates the presence of a P-21

**Remarks:**
FY 2018 Base procurement funding in the amount of $46.793 million supports the modification of 12 legacy systems, procurement of 30 dismount SIGINT Manpacks (to be fielded to Regionally Aligned Forces), plus associated support, integration and testing for these systems.

FY2018 OCO procurement funding in the amount of $2.300 million procures 12 dismount SIGINT Manpacks; six of the Manpacks will be fielded to units located within the U.S. Army Europe (USAREUR) area of responsibility and six of the Manpacks will be fielded to units within the Global Response Force (GRF) area of responsibility.

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | **Item Number / Title [DODIC]:** BZ9753 / Prophet Enhanced Modifications (MIP) |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Prophet Enhanced Legacy Modification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 12 | 0 | 12 | | | | | | | | | A - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | | 0 |
| | 1 | 2018 | ARMY | 12 | 0 | 12 | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | - | 12 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | **Item Number / Title [DODIC]:** BZ9753 / Prophet Enhanced Modifications (MIP) |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Prophet Enhanced Legacy Modification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 12 | 12 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 12 | 0 | 12 | - | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 80 | **P-1 Line Item Number / Title:**<br>BZ9750 / Mod of In-Svc Equip (INTEL SPT) (MIP) | **Item Number / Title [DODIC]:**<br>BZ9753 / Prophet Enhanced Modifications (MIP) |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | GD Mission Systems - Scottsdale, AZ | 2 | 3 | 4 | 8 | 3 | 9 | 12 | 0 | 0 | 0 | 0 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604321A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 485 | 437 | 449 | 438 | 3,102 | 3,540 | 439 | 438 | 437 | 312 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 299.061 | 11.402 | 14.891 | 7.815 | 14.460 | 22.275 | 8.092 | 8.250 | 8.424 | 6.084 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 299.061 | 11.402 | 14.891 | 7.815 | 14.460 | 22.275 | 8.092 | 8.250 | 8.424 | 6.084 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **299.061** | **11.402** | **14.891** | **7.815** | **14.460** | **22.275** | **8.092** | **8.250** | **8.424** | **6.084** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 616.621 | 26.092 | 33.165 | 17.842 | 4.662 | 6.292 | 18.433 | 18.836 | 19.277 | 19.500 | Continuing | Continuing |

## Description:

The Counterintelligence (CI) and Human Intelligence (HUMINT) Automated Reporting and Collection System (CHARCS) is the Army's CI and HUMINT tactical collection and reporting system. CHARCS provides automation support for information collection, reporting, investigations, source & interrogation operations and document exploitation. The CHARCS automation architecture extends from the individual HUMINT team soldier or CI agent to the Corps. CHARCS reports digital data such as maps, overlays, images, video, biometrics, scanned documents and audio files. These media are transmitted through secure networks and interfaces with the Distributed Common Ground Systems-Army (DCGS-A) for detailed analysis and creation of finished intelligence products. Collection and reporting teams at Military Intelligence (MI) battalions and their operational managers are equipped with one of two CHARCS systems. The first is the AN/PYQ-8 Individual Tactical Reporting Tool (ITRT) which provides collection and processing devices for individual HUMINT team member or CI agents. The second is the AN/PYQ-3 CI/HUMINT Automated Tool Set (CHATS) which provides the team leader (who normally directs 3-5 team members)and Operational Management Team (OMT) tools to process and manage team-collected information and a robust set of devices such as printers, scanners, and cameras to assist the collection mission. The CHATS is also used by Operational Management Team (OMT) (who normally directs 3-5 collection and reporting teams). Each CHATS has an associated Mission Support Peripheral Sets and Kits (MS-PSK) or Collection Peripheral Sets and Kits (C-PSK).

The C-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions. C-PSK capabilities are commercial-off-the-shelf (COTS) technologies and include video and camera equipment, global positioning system (GPS), and voice recording device. Phasing in of the Nett Warrior End User Device (EUD), to displace the C-PSK, will begin in FY 2018 and complete in FY 2019. The EUD is a COTS Mobile Handheld device, managed by PEO Soldier, which provides all of the operational capacity of the C-PSK in 1 hardware device. The MS-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions. MS-PSK capabilities are COTS technologies and include night vision photography & video, captured materiel tracking, digital media forensics software, and Document Exploitation (DOCEX) software.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 289 | 172 | 438 | 3,102 | 3,540 | 439 | 438 | 437 | 312 |
| | Total Obligation Authority | 10.715 | 13.595 | 7.815 | 14.460 | 22.275 | 8.092 | 8.250 | 8.424 | 6.084 |
| ANG | Quantity | 53 | 150 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 0.249 | 0.707 | - | - | - | - | - | - | - |
| AR | Quantity | 95 | 127 | - | - | - | - | - | - | - |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:**<br>BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604321A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total Obligation Authority | 0.438 | 0.589 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **437** | **449** | **438** | **3,102** | **3,540** | **439** | **438** | **437** | **312** |
| | **Total Obligation Authority** | **11.402** | **14.891** | **7.815** | **14.460** | **22.275** | **8.092** | **8.250** | **8.424** | **6.084** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:**<br>BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604321A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) | P-5a | | | 485 / 299.061 | 437 / 11.402 | 449 / 14.891 | 438 / 7.815 | 3,102 / 14.460 | 3,540 / 22.275 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **485 / 299.061** | **437 / 11.402** | **449 / 14.891** | **438 / 7.815** | **3,102 / 14.460** | **3,540 / 22.275** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 OPA Base funding in the amount of $7.815 million procures mission equipment, supports fielding, training, logistic and mission equipment refresh to Army Resourcing Priority List (ARPL) units.

FY 2018 OPA OCO funding in the amount of $14.460 million procures Cellular Exploitation Kits and Media Exploitation Kits to Multi-Function teams for OFS. The funds will also procure End-User Devices to replace existing C-PSKs for OFS that are reaching End of Useful Life (EUL).

CHARCS AAO: 5198 (CHATS and ITRTs)

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) | **Item Number / Title [DODIC]:** BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 485 | 437 | 449 | 438 | 3,102 | 3,540 |
| Gross/Weapon System Cost *($ in Millions)* | 299.061 | 11.402 | 14.891 | 7.815 | 14.460 | 22.275 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 299.061 | 11.402 | 14.891 | 7.815 | 14.460 | 22.275 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **299.061** | **11.402** | **14.891** | **7.815** | **14.460** | **22.275** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 616.621 | 26.092 | 33.165 | 17.842 | 4.662 | 6.292 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Replacement Parts | 150.000 | 1 | 0.150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| --Laptops & HDs for CHATS and ITRTs(†) | 3.322 | 485 | 1.611 | 4.594 | 360 | 1.654 | 4.199 | 437 | 1.835 | 7.344 | 320 | 2.350 | - | - | - | 7.344 | 320 | 2.350 |
| --Cellular Exploitation (CELLEX) Kits(†) | - | - | - | 99.527 | 55 | 5.474 | 15.244 | 262 | 3.994 | 17.000 | 18 | 0.306 | 17.000 | 343 | 5.831 | 17.000 | 361 | 6.137 |
| --Document Exploitation (DOCEX) Kits(†) | - | - | - | - | - | - | 16.258 | 260 | 4.227 | 17.918 | 17 | 0.305 | 17.918 | 315 | 5.644 | 17.919 | 332 | 5.949 |
| Bio Handheld Devices (PM Biometrics)(†) | 54.285 | 915 | 49.671 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PMO Government Support | 3,993.500 | 10 | 39.935 | - | - | 0.398 | - | - | 0.525 | - | - | 0.700 | - | - | - | - | - | 0.700 |
| System Engineering/ Technical Assistance | - | - | 1.298 | - | - | 0.737 | - | - | 1.000 | - | - | 1.575 | - | - | - | - | - | 1.575 |
| CHARCS Life Cycle Support (LCMC CECOM) | - | - | - | - | - | 0.139 | - | - | 0.110 | - | - | 0.500 | - | - | - | - | - | 0.500 |
| Fielding/Logistics/ Training/Initial Sust | 2,063.960 | 100 | 206.396 | - | - | 3.000 | - | - | 3.200 | - | - | 2.079 | - | - | - | - | - | 2.079 |
| End-User Devices | - | - | - | - | - | - | - | - | - | - | - | - | 1.500 | 1,990 | 2.985 | 1.500 | 1,990 | 2.985 |
| *Subtotal: Recurring Cost* | - | - | *299.061* | - | - | *11.402* | - | - | *14.891* | - | - | *7.815* | - | - | *14.460* | - | - | *22.275* |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 80 | **P-1 Line Item Number / Title:** BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) | **Item Number / Title [DODIC]:** BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Flyaway Cost* | - | - | ***299.061*** | - | - | ***11.402*** | - | - | ***14.891*** | - | - | ***7.815*** | - | - | ***14.460*** | - | - | ***22.275*** |
| **Gross/Weapon System Cost** | **616.621** | **485** | **299.061** | **26.092** | **437** | **11.402** | **33.165** | **449** | **14.891** | **17.842** | **438** | **7.815** | **4.662** | **3,102** | **14.460** | **6.292** | **3,540** | **22.275** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 289 | 172 | 438 | 3,102 | 3,540 |
| | Total Obligation Authority | 10.715 | 13.595 | 7.815 | 14.460 | 22.275 |
| ANG | Quantity | 53 | 150 | - | - | - |
| | Total Obligation Authority | 0.249 | 0.707 | - | - | - |
| AR | Quantity | 95 | 127 | - | - | - |
| | Total Obligation Authority | 0.438 | 0.589 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **437** | **449** | **438** | **3,102** | **3,540** |
| | **Total Obligation Authority** | **11.402** | **14.891** | **7.815** | **14.460** | **22.275** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 80 | P-1 Line Item Number / Title: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) | Item Number / Title [DODIC]: BK5275 / CI HUMINT Auto Reprting and Coll(CHARCS) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| --Laptops & HDs for CHATS and ITRTs | | 2016 | CHS / APG, MD | C / CPFF | APG, MD | Feb 2016 | May 2016 | 360 | 4.590 | | | |
| --Laptops & HDs for CHATS and ITRTs | | 2017 | CHS / APG, MD | C / CPFF | APG, MD | Nov 2016 | Feb 2017 | 437 | 4.200 | | | |
| --Laptops & HDs for CHATS and ITRTs | | 2018 | CHS / APG, MD | C / CPFF | APG, MD | Nov 2017 | Mar 2018 | 320 | 7.340 | | | |
| --Cellular Exploitation (CELLEX) Kits | | 2016 | ROMO Contract / Chantilly, VA | C / CPFF | Chantilly, VA | Feb 2016 | Mar 2016 | 55 | 99.530 | | | |
| --Cellular Exploitation (CELLEX) Kits | | 2017 | CHS / APG, MD | C / CPFF | APG, MD | Apr 2017 | May 2017 | 262 | 15.240 | | | |
| --Cellular Exploitation (CELLEX) Kits | | 2018 | CHS / APG, MD | C / CPFF | APG, MD | Jan 2018 | Mar 2018 | 361 | 17.000 | | | |
| --Document Exploitation (DOCEX) Kits | | 2017 | TAO / Ft. Detrick, MD | C / FFP | Ft. Detrick, MD | Mar 2017 | Apr 2017 | 260 | 16.260 | | | |
| --Document Exploitation (DOCEX) Kits | | 2018 | TAO / Ft. Detrick, MD | C / FFP | Ft. Detrick, MD | Mar 2018 | Apr 2018 | 332 | 17.920 | | | |
| Bio Handheld Devices (PM Biometrics) | | 2016 | Leidos / Alexandria, VA | C / FFP | Alexandria, VA | Jan 2016 | Apr 2016 | 0 | 0.000 | | | |

**Remarks:**
Equipment is comprised solely of COTS equipment with COTS/GOTS software.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** B10001 / Close Access Target Reconnaissance (CATR) |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 19 | 24 | 21 | - | 21 | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | - | 5.012 | 7.970 | 8.050 | - | 8.050 | - | - | - | - | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 5.012 | 7.970 | 8.050 | - | 8.050 | - | - | - | - | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **5.012** | **7.970** | **8.050** | **-** | **8.050** | **-** | **-** | **-** | **-** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 263.789 | 332.083 | 383.333 | - | 383.333 | - | - | - | - | Continuing | Continuing |

## Description:

Close Access Target Reconnaissance (CATR) is a kit of electronic devices that acquires, collects, and transmits data to provide near real time feedback in order to validate, follow, locate, or track a target (i.e., tagging, tracking, and locating (TTL)). CATR will use electronic audio and or video recorders to obtain information which is used to validate movement and identify targets. In addition, CATR allows for threat monitoring that can be integrated into existing operational tools, help to paint a clearer picture of the battlefield, pinpoint possible target locations, and identify and exploit enemy movements and patterns.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 19 | 19 | 12 | - | 12 | - | - | - | - |
| | Total Obligation Authority | 5.012 | 6.303 | 4.428 | - | 4.428 | - | - | - | - |
| ANG | Quantity | - | 5 | 9 | - | 9 | - | - | - | - |
| | Total Obligation Authority | - | 1.667 | 3.622 | - | 3.622 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **19** | **24** | **21** | **-** | **21** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **5.012** | **7.970** | **8.050** | **-** | **8.050** | **-** | **-** | **-** | **-** |

**Justification:**

FY 2018 Base procurement dollars in the amount of $8.050 million supports the fielding of 21 CATR sets to four (4) Brigade Combat teams (BCTs). Funds will refresh and re-kit existing Quick Reaction Capability (QRC) sets/systems at Bluegrass Station Kentucky for the Program of Record (POR) sets/system configuration.

In accordance with Section 1815 of the FY2008 National Defense Authorization (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** B88605 / Machine Foreign Language Translation System-MFLTS |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604321A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 24.620 | 8.125 | 0.545 | 0.567 | - | 0.567 | 0.583 | 4.601 | 0.619 | 0.631 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 24.620 | 8.125 | 0.545 | 0.567 | - | 0.567 | 0.583 | 4.601 | 0.619 | 0.631 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **24.620** | **8.125** | **0.545** | **0.567** | **-** | **0.567** | **0.583** | **4.601** | **0.619** | **0.631** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Machine Foreign Language Translation System (MFLTS) develops, fields, and sustains a basic automated foreign speech and text translation capability for Army tactical systems to augment and compliment limited human linguistic resources. These integrated automated translation capabilities will be applicable across three different system configurations; a hand-held/wearable portable device, a laptop/mobile device, and in a networked/web-enabled system. The software modules will translate English from a prioritized list of languages in a prioritized collection of domains (e.g. medical, intelligence, base security). MFLTS is interoperable with Commercial Off-The-Shelf (COTS) and Government Off-The-Shelf (GOTS) automation equipment to include the Distributed Common Ground System-Army (DCGS-A) and Nett Warrior, and will be interoperable with a future version of the CI/HUMINT Automated Reporting and Collection System (CHARCS).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 8.125 | 0.545 | 0.567 | - | 0.567 | 0.583 | 4.601 | 0.619 | 0.631 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **8.125** | **0.545** | **0.567** | **-** | **0.567** | **0.583** | **4.601** | **0.619** | **0.631** |

**Justification:**

FY 2018 Base procurement dollars in the amount of $0.567 million supports program management and integrated logistics support.

This program will be providing software only and will not have quantities and/or delivery dates.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:** BK5300 / Biometric Tactical Collection Devices (MIP) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|
| **Line Item MDAP/MAIS Code:** N/A | | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 2,000 | - | 275 | 275 | - | - | - | - | - | 2,275 |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 14.420 | - | 5.180 | 5.180 | - | - | - | - | - | 19.600 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 14.420 | - | 5.180 | 5.180 | - | - | - | - | - | 19.600 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **14.420** | **-** | **5.180** | **5.180** | **-** | **-** | **-** | **-** | **-** | **19.600** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 7.210 | - | 18.836 | 18.836 | - | - | - | - | - | 8.615 |

## Description:

Product Lead Biometrics Automated Toolset-Army (BAT-A) manages two Army biometric tactical collection devices, the Biometric Automated Toolset-Army (BAT-A) Kit and BAT-A Handheld (HH). These two devices support the Army Force Protection Mission and Identity Dominance Mission. The BAT-A system is the Army's biometric tactical collection devices which collect, match, store, and share biometric and contextual information on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals. Recipients of collected information include DoD organizations, other U.S. government agencies, and Coalition Partners. The BAT-A devices are also used by non-Military Intelligence personnel (Infantry and Military Police). The capability was originally deployed as a Quick Reaction Capability (QRC) and has been deployed in a combat zone and other OCONUS contingency operations for the past decade. The current BAT-A systems will serve as the Army biometrics enduring capability through FY22. PL BAT-A will continue to serve as the Office of Primary Responsibility as the BAT-A is now a Post Milestone C program of record in sustainment.

United States Central Command (CENTCOM) submitted JUONS CC-0548 on 11 Dec 15 for enhanced biometric capabilities to support current operations. The Joint Requirements Oversight Council (JROC) validated 5 of 6 key requirements of JUONS CC-0548 on 3 June 2016 and identified the requirements as "key enablers" to existing JEON CCE-0008 (near Real-Time Identity Operations). The Joint Rapid Acquisition Cell (JRAC) assigned execution responsibility for the validated 5 key requirements in JUONS CC-0548 to the Army on 30 June 2016. The Army Acquisition Executive assigned OPR to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors/Project Manager for DoD Biometrics on 13 September 2016.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | 2,000 | - | 275 | 275 | - | - | - | - |
| | Total Obligation Authority | - | 14.420 | - | 5.180 | 5.180 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **2,000** | **-** | **275** | **275** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **14.420** | **-** | **5.180** | **5.180** | **-** | **-** | **-** | **-** |

**Justification:**
FY 2018 Overseas Contingency Operations (OCO) procurement in the amount of $5.180 million procures multiple Biometric Automated Toolsets - Army (BAT-A) Kit Hardware and BAT-A Handheld (HH) accessories for quantities RESET/REFRESH activities supporting both Operation Freedom's Sentinel (OFS) and Operation Inherent Resolve for ISIL (OIR). Specifically for OFS, requested funds will refresh

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA) | **P-1 Line Item Number / Title:**<br>BK5300 / Biometric Tactical Collection Devices (MIP) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

204 BAT-A laptops and obsolete peripherals; refresh six (6) BAT-A Servers with accessories; and will refresh BAT-A Handheld obsolete parts and accessories ensuring the continued mission critical capability. Specifically for OIR, requested funds will refresh 63 BAT-A laptops and obsolete peripherals; refresh two (2) BAT-A Servers with accessories; and will refresh BAT-A Handheld obsolete parts and accessories ensuring the continued mission critical capability.

The Biometric Automated Toolset - Army (BAT-A) requires both hardware reset and associated minor software integration to maintain operational viability. These devices have been in Iraq and Afghanistan well beyond the standard 3 – 6 years of useful electronic equipment life. BAT-A is the Army's Biometric Program of Record and failure to reset these devices will degrade the mission effectiveness of this enabler of Identity Dominance and Force Protection.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** B05201 / Lightweight Counter Mortar Radar |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604823A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 289 | 36 | 70 | 5 | - | 5 | - | - | - | - | - | 400 |
| Gross/Weapon System Cost *($ in Millions)* | 650.994 | 63.472 | 130.730 | 20.459 | - | 20.459 | 9.618 | - | - | 8.427 | - | 883.700 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 650.994 | 63.472 | 130.730 | 20.459 | - | 20.459 | 9.618 | - | - | 8.427 | - | 883.700 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **650.994** | **63.472** | **130.730** | **20.459** | **-** | **20.459** | **9.618** | **-** | **-** | **8.427** | **-** | **883.700** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,252.574 | 1,763.111 | 1,867.571 | 4,091.800 | - | 4,091.800 | - | - | - | - | - | 2,209.250 |

## Description:

The AN/TPQ-50 Lightweight Counter Mortar Radar (LCMR) is a highly mobile radar that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems with sufficient accuracy for first round fire for effect. It mitigates close combat radar coverage gaps by providing 360 degrees of azimuth coverage from ranges of 500 meters to 10 kilometers and is capable of being deployed in two configurations, standalone or vehicle mounted. The AN/TPQ-50 system interoperates with mission command systems (MCSs) to provide the maneuver commander increased counterfire radar flexibility. The AN/TPQ-50 is deployed as part of the Counter-Rocket, Artillery, Mortar (C-RAM) system of systems. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability. The AN/TPQ-50 is currently fielded to multiple Continental United States (CONUS) and Outside Continental United States (OCONUS) locations to include support to Operation Inherent Resolve (OIR) and Operation Freedom's Sentinel (OFS).

Army Acquisition Objective (AAO): 400

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 12 | 52 | 3 | - | 3 | - | - | - | - |
| | Total Obligation Authority | 21.155 | 96.008 | 10.667 | - | 10.667 | 6.284 | - | - | 4.386 |
| ANG | Quantity | 24 | 18 | 2 | - | 2 | - | - | - | - |
| | Total Obligation Authority | 42.317 | 34.722 | 9.792 | - | 9.792 | 3.334 | - | - | 4.041 |
| **Total: Secondary Distribution** | **Quantity** | **36** | **70** | **5** | **-** | **5** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **63.472** | **130.730** | **20.459** | **-** | **20.459** | **9.618** | **-** | **-** | **8.427** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:**<br>B05201 / Lightweight Counter Mortar Radar |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604823A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B05201 / Lightweight Counter Mortar Radar | P-5a | | | 289 / 650.994 | 36 / 63.472 | 70 / 130.730 | 5 / 20.459 | - / - | 5 / 20.459 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **289 / 650.994** | **36 / 63.472** | **70 / 130.730** | **5 / 20.459** | **- / -** | **5 / 20.459** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
Fiscal Year (FY) 2018 OPA Base funds of $20.459 million will support the procurement of 5 AN/TPQ-50 full rate production (FRP) systems, fielding of systems to United States Army units, retrofit of QRC and LRIP systems, engineering changes, information assurance and program support.

Current force structure is:
Twelve (12) radars per IFPC, Air Defense Artillery (ADA) Battalion
Four (4) radars per Brigade Combat Team (BCT)
Two (2) radars per Field Artillery Brigade (FAB)
Two (2) radars per Division Artillery (DIVARTY)
Two (2) radars per Special Troops Battalion, Ranger Regiment
One (1) radar per Special Forces Battalion (SFB)
One (1) radar per Support Battalion SF Group (SFG)
One (1) radar per Ranger Battalion
One (1) radar per Task Force

In accordance with Section 1815 of the Fiscal Year (FY) 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 83 | **P-1 Line Item Number / Title:** B05201 / Lightweight Counter Mortar Radar | **Item Number / Title [DODIC]:** B05201 / Lightweight Counter Mortar Radar |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 289 | 36 | 70 | 5 | - | 5 |
| Gross/Weapon System Cost *($ in Millions)* | 650.994 | 63.472 | 130.730 | 20.459 | - | 20.459 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 650.994 | 63.472 | 130.730 | 20.459 | - | 20.459 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **650.994** | **63.472** | **130.730** | **20.459** | **-** | **20.459** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,252.574 | 1,763.111 | 1,867.571 | 4,091.800 | - | 4,091.800 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware AN/TPQ-50 (LCMR V3)(†) | 1,374.069 | 289 | 397.106 | 1,168.500 | 36 | 42.066 | 1,367.071 | 70 | 95.695 | 1,481.600 | 5 | 7.408 | - | - | - | 1,481.600 | 5 | 7.408 |
| *Subtotal: Recurring Cost* | - | - | *397.106* | - | - | *42.066* | - | - | *95.695* | - | - | *7.408* | - | - | - | - | - | *7.408* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Engineering Change Orders | - | - | 6.510 | - | - | 1.033 | - | - | 2.171 | - | - | 0.167 | - | - | - | - | - | 0.167 |
| *Subtotal: Non Recurring Cost* | - | - | *6.510* | - | - | *1.033* | - | - | *2.171* | - | - | *0.167* | - | - | - | - | - | *0.167* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***403.616*** | **-** | **-** | ***43.099*** | **-** | **-** | ***97.866*** | **-** | **-** | ***7.575*** | **-** | **-** | **-** | **-** | **-** | ***7.575*** |
| Support Cost | | | | | | | | | | | | | | | | | | |
| Acceptance and Live Fire Testing | - | - | 26.040 | - | - | 0.413 | - | - | 1.235 | - | - | 0.029 | - | - | - | - | - | 0.029 |
| Integrated Logistics Support | - | - | 45.570 | - | - | 1.956 | - | - | 1.996 | - | - | 1.087 | - | - | - | - | - | 1.087 |
| Program Management Support | - | - | 39.060 | - | - | 5.350 | - | - | 12.960 | - | - | 6.055 | - | - | - | - | - | 6.055 |
| Fielding | - | - | 97.649 | - | - | 11.053 | - | - | 13.731 | - | - | 5.713 | - | - | - | - | - | 5.713 |
| System Engineering | - | - | 39.059 | - | - | 1.601 | - | - | 2.942 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support Cost* | **-** | **-** | ***247.378*** | **-** | **-** | ***20.373*** | **-** | **-** | ***32.864*** | **-** | **-** | ***12.884*** | **-** | **-** | **-** | **-** | **-** | ***12.884*** |
| **Gross/Weapon System Cost** | **2,252.574** | **289** | **650.994** | **1,763.111** | **36** | **63.472** | **1,867.571** | **70** | **130.730** | **4,091.800** | **5** | **20.459** | **-** | **-** | **-** | **4,091.800** | **5** | **20.459** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 83 | **P-1 Line Item Number / Title:** B05201 / Lightweight Counter Mortar Radar | **Item Number / Title [DODIC]:** B05201 / Lightweight Counter Mortar Radar |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 12 | 52 | 3 | - | 3 |
| | Total Obligation Authority | 21.155 | 96.008 | 10.667 | - | 10.667 |
| ANG | Quantity | 24 | 18 | 2 | - | 2 |
| | Total Obligation Authority | 42.317 | 34.722 | 9.792 | - | 9.792 |
| **Total: Secondary Distribution** | **Quantity** | **36** | **70** | **5** | **-** | **5** |
| | **Total Obligation Authority** | **63.472** | **130.730** | **20.459** | **-** | **20.459** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 83 | **P-1 Line Item Number / Title:** B05201 / Lightweight Counter Mortar Radar | **Item Number / Title [DODIC]:** B05201 / Lightweight Counter Mortar Radar |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hardware AN/TPQ-50 (LCMR V3) | | 2015 | SRCTEC INC / North Syracuse | SS / FFP | CECOM | Apr 2016 | Apr 2017 | 3 | 1,108.137 | Y | | Feb 2013 |
| Hardware AN/TPQ-50 (LCMR V3) | | 2016 | SRCTEC INC / North Syracuse | SS / FFP | CECOM | Apr 2016 | Apr 2017 | 36 | 1,168.500 | Y | | Feb 2013 |
| Hardware AN/TPQ-50 (LCMR V3) | | 2017 | SRCTec, Inc. / North Syracuse | SS / FFP | CECOM | Feb 2017 | Feb 2018 | 51 | 1,367.070 | Y | | Feb 2013 |
| Hardware AN/TPQ-50 (LCMR V3) | | 2017 | SRCTEC, INC. / North Syracuse | SS / FFP | CECOM | Jun 2017 | Jun 2018 | 19 | 1,367.070 | Y | | Feb 2013 |
| Hardware AN/TPQ-50 (LCMR V3) | | 2018 | SRCTec, INC. / North Syracuse | SS / FFP | CECOM | Mar 2018 | Mar 2019 | 5 | 1,481.600 | Y | | Feb 2013 |

**Remarks:**
Fiscal Year (FY) 2018 OPA Base funds of $20.459 million will support the procurement of 5 AN/TPQ-50 full rate production (FRP) systems, fielding of systems to United States Army units, retrofit of QRC and LRIP systems, engineering changes, information assurance and program support

Fiscal Year (FY) 2017 total funding includes $56.692 million OPA OCO. Funding will be used to procure 24 program of record (POR) AN/TPQ-50 radars, of which a quantity 20 will support of the Army Prepositioned Stock (APS) requirement per the Capabilities Production Document (CPD) and 4 will be fielded directly to Army units. This funding also supports the procurement of an additional 18 systems to replace POR systems which were diverted in support of the Counter Unmanned Aerial Systems (C-UAS) Joint Urgent Operational Needs Statement (JUONS).

Fiscal Year (FY) 2015 system buy was combined with FY16 buy to take advantage of the best quantity range pricing, reducing the total hardware cost by $0.912M (26%) for those three systems.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** K00002 / EW Planning & Management Tools (EWPMT) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 0.013 | 6.652 | 3.235 | 5.805 | - | 5.805 | 5.947 | 7.846 | 8.145 | 1.000 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 0.013 | 6.652 | 3.235 | 5.805 | - | 5.805 | 5.947 | 7.846 | 8.145 | 1.000 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **0.013** | **6.652** | **3.235** | **5.805** | **-** | **5.805** | **5.947** | **7.846** | **8.145** | **1.000** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Electronic Warfare Planning and Management Tools (EWPMT) is an Automated Information System that utilizes an Information Technology (IT) box software (S/W) strategy. EWPMT will provide planning capabilities to coordinate, manage, and deconflict unit Electronic Warfare (EW) activities; employ EW assets to conduct offensive EW targeting, and synchronize EW spectrum operations with an Effects/Fires Cell as an element of Mission Command. EWPMT is a suite of software tools and applications that will provide a spectrum Common Operating Picture (COP) for the Electronic Warfare Officer (EWO). EWPMT will integrate data elements from Mission Command, Intelligence, and Fires to achieve situational awareness of the Electromagnetic Operational Environment.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 6.652 | 3.235 | 5.805 | - | 5.805 | 5.947 | 7.846 | 8.145 | 1.000 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **6.652** | **3.235** | **5.805** | **-** | **5.805** | **5.947** | **7.846** | **8.145** | **1.000** |

**Justification:**

FY2018 base procurement dollars in the amount of $5.805 million supports continuous Electronic Warfare Planning & Management Tools (EWPMT fielding) New Equipment Training (NET), delta training, Interim Contractor Support (ICS) and Program Management (PM).

Comments:

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** W60001 / Air Vigilance (AV) |

| | | |
|---|---|---|
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0603766A, 0605766A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 7.000 | 8.224 | 0.733 | 5.348 | - | 5.348 | 6.497 | 6.953 | 5.169 | 8.530 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 7.000 | 8.224 | 0.733 | 5.348 | - | 5.348 | 6.497 | 6.953 | 5.169 | 8.530 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **7.000** | **8.224** | **0.733** | **5.348** | **-** | **5.348** | **6.497** | **6.953** | **5.169** | **8.530** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Air Vigilance systems collect critical intelligence data on emerging threat aerial systems. The intelligence data provides early warning of operations in restricted airspace to ensure force protection. An Air Vigilance system is comprised of a server unit configured and fielded with a single or multiple sub-component sensors. System Quantities are based upon server units. Operational details are classified.

Note: Air Vigilance (AV) is software intensive Automated Information System (AIS) program with specialized hardware. The AV current Basis of Issue Plan (BOIP) is based upon the Full Deployment (FD) of this baseline (qty 1) software deployed across hardware sets comprised of 49 unit/pieces of equipment (10 servers and 39 sensors in various combinations/configurations) fielded to INSCOM Military Intelligence Brigades.

Comments:
"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 8.224 | 0.733 | 5.348 | - | 5.348 | 6.497 | 6.953 | 5.169 | 8.530 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **8.224** | **0.733** | **5.348** | **-** | **5.348** | **6.497** | **6.953** | **5.169** | **8.530** |

**Justification:**
FY 2018 Base procurement dollars in the amount of $5.348 million procures 5 sensors per current operational force needs, and provides for Initial Fielding and New Equipment Training of items procured in previous years, and upgrades per Capability Drop 3 of these systems, in accordance with the latest user and HQDA approved fielding plan. All funding is for Compo 1 (Active Component).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:**<br>W60001 / Air Vigilance (AV) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0603766A, 0605766A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** VA8000 / CREW |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,487.601 | 2.960 | - | - | - | - | - | - | - | - | - | 1,490.561 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,487.601 | 2.960 | - | - | - | - | - | - | - | - | - | 1,490.561 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,487.601** | **2.960** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **1,490.561** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Counter Radio Controlled Improvised Explosive Devices (RCIED) Electronics Warfare (CREW) family of Electronic Counter Measure (ECM) systems are essential to provide force protection to Soldiers, fixed site locations and combat vehicle platforms for both Mounted and Dismounted Variants for 24/7 operations. CREW Dismounted capabilities are designed to protect Soldiers while conducting dismounted operations. Universal Test Set (UTS) is designed to test CREW systems before conduct of operations.

Dismounted CREW capabilities (THOR III/BALDR) and Universal Test Set (UTS) Quick Reaction Capabilities (QRC) will formally transition to a program of record (POR) in FY2016. Funding in FY2016 supports the activities required to obtain full material release (FMR) and formally transition to a program of record (POR).

This program is a new start in FY2016 for Dismounted CREW/Universal Test Set (UTS). FY2013 and prior funding supported the procurement of CREW-2 Duke systems.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 2.960 | - | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **2.960** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

**Justification:**

This program does not have an FY 2018 budget request.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:**<br>VA8000 / CREW | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

The CREW-2 Duke Army Acquisition Objective (AAO): 39,114.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** BL5287 / Family Of Persistent Surveillance Capabilities |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 127.383 | 16.569 | 34.541 | - | 16.935 | 16.935 | - | - | - | - | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 127.383 | 16.569 | 34.541 | - | 16.935 | 16.935 | - | - | - | - | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **127.383** | **16.569** | **34.541** | **-** | **16.935** | **16.935** | **-** | **-** | **-** | **-** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Persistent Surveillance Systems - Tethered (PSS-T) is a program of record comprised of 29 Large (formerly Persistent Threat Detection System (PTDS)) and 29 Medium (formerly Persistent Ground Surveillance System (PGSS)) sized Aerostats. PSS-T has been assigned to Army Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S). Both tethered Aerostats are equipped with high resolution Electro-Optical/Infrared (EO/IR) camera systems and wide-area assessment sensors. Video collected by PSS-T is distributed to the Forward Operating Base and division commander information center as well as to quick reaction forces via Tactical Operations Center (TOC) Extension Kits, providing tactical commanders enhanced battlefield situational awareness.

PTDS - The baseline configuration includes the US Army Research Lab's Unattended Transient Acoustic Measurement and Signature INTelligence (MASINT) System (UTAMS) which operationally cues the PTDS MX-20 EO/IR sensor to slew onto a target. The UTAMS is an acoustic sensor design consisting of sensor stations linked via radio to a base station. Each sensor station includes microphone arrays, signal processor, and display. The baseline PTDS also includes the Joint Synchronization Information Transmitter (JSIT) Mini-Tactical Common Data Link transmitter that transmits MX-20 video stream to ground forces equipped with One System Remote Video Terminal. Expendable-Unattended Ground Sensor (E-UGS) enhances the PTDS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response. PTDS continues to meet other urgent theater needs through system upgrades: adding High Antennas for Radio Communications (HARC) radio, the PRC-117G wide band radio, Tactical Targeting Network Technology (TTNT), Highband Networking Radio (HNR) as part of the aerial layer network extension architecture; transmitting weather data directly to Air Force Weather Agency (AFWA) via weather relay kits; added dual sensor capability; additional ground moving target indicator STARLite and wide area motion imagery Kestrel sensors, Persistent Surveillance Systems (PSS) Slew to Cue, coded laser target designation, and Survivability enhancements.

The PGSS has been a highly successful example of quickly delivering urgently needed capabilities to the Warfighter at remote forward operating bases (FOBs). PGSS continues to meet other urgent theater needs through system upgrades: adding HARC radio, the PRC-117G wide band radio, Quint Networking Technology (QNT), and micro-Enhanced Position Location Reporting System (EPLRS) as part of the aerial layer network extension architecture; transmitting weather data directly to AFWA via PGSS Weather Web, added dual sensor capability; additional Vista, Kestrel, and wireless identification sensing platforms (WISP) sensors, PSS Slew to Cue, Precision Fires, coded laser target designation, and Survivability enhancements. Additionally, Expendable-Unattended Ground Sensor (E-UGS) enhances the PGSS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 16.569 | 34.541 | - | 16.935 | 16.935 | - | - | - | - |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** BL5287 / Family Of Persistent Surveillance Capabilities | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 16.569 | 34.541 | - | 16.935 | 16.935 | - | - | - | - |

**Justification:**
FY 2018 Overseas Contingency Operations (OCO) Other Procurement Army (OPA) dollars in the amount of $16.935 million supports Operation Freedom Sentinel (OFS) and Operation Inherent Resolve (OIR).

$12.024 million provides high dollar spares to support fifteen (15) systems in OFS and $4.911 million provides for high dollar spares for six (6) systems for OIR. High dollar spare kits include an Aerostat Envelope, Baseline Avionics Kit and MX ISR cameras.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

All funds support the Active Component.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** BL5283 / Counterintelligence/Security Countermeasures |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 2 | 1 | 21 | 22 | 1 | 1 | 1 | 1 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 1,832.670 | 20.632 | 24.345 | 0.469 | 18.874 | 19.343 | 0.488 | 0.501 | 0.507 | 0.517 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,832.670 | 20.632 | 24.345 | 0.469 | 18.874 | 19.343 | 0.488 | 0.501 | 0.507 | 0.517 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,832.670** | **20.632** | **24.345** | **0.469** | **18.874** | **19.343** | **0.488** | **0.501** | **0.507** | **0.517** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 12,172.500 | 469.000 | 898.762 | 879.227 | 488.000 | 501.000 | 507.000 | 517.000 | Continuing | Continuing |

## Description:

Program is IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | 2 | 1 | 21 | 22 | 1 | 1 | 1 | 1 |
| | Total Obligation Authority | 20.632 | 24.345 | 0.469 | 18.874 | 19.343 | 0.488 | 0.501 | 0.507 | 0.517 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **2** | **1** | **21** | **22** | **1** | **1** | **1** | **1** |
| | **Total Obligation Authority** | **20.632** | **24.345** | **0.469** | **18.874** | **19.343** | **0.488** | **0.501** | **0.507** | **0.517** |

**Justification:**

The FY2018 BASE procurement funding in the amount of $.469 million is IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

The FY2018 OCO procurement funding I the amount of $18.874 million is IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONAL JUSTIFICATION BOOK.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW) | **P-1 Line Item Number / Title:** BL5285 / CI Modernization |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 8.860 | 0.228 | 0.176 | 0.285 | - | 0.285 | 0.161 | 0.121 | 0.295 | 0.165 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 8.860 | 0.228 | 0.176 | 0.285 | - | 0.285 | 0.161 | 0.121 | 0.295 | 0.165 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **8.860** | **0.228** | **0.176** | **0.285** | **-** | **0.285** | **0.161** | **0.121** | **0.295** | **0.165** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Counterintelligence (CI) Modernization effort provides resources for the sustainment of the CI information technology infrastructure used by the CI components of the Army. This architecture and infrastructure includes shared databases, workstations, global communications, and adequate connectivity for CI agents and specialists.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 0.228 | 0.176 | 0.285 | - | 0.285 | 0.161 | 0.121 | 0.295 | 0.165 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **0.228** | **0.176** | **0.285** | **-** | **0.285** | **0.161** | **0.121** | **0.295** | **0.165** |

**Justification:**

FY18 Base Funding is in the amount of $0.285 million procures lifecycle Automated Data Processing (ADP) Capital Equipment Replacement Program (CERP) support and communications equipment for worldwide Army Counterintelligence (CI) operations conducted by over 1,200 personnel.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0214400A, 0604820A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 378.535 | 43.285 | 40.171 | 28.491 | - | 28.491 | 37.006 | 44.901 | 61.674 | 72.032 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 378.535 | 43.285 | 40.171 | 28.491 | - | 28.491 | 37.006 | 44.901 | 61.674 | 72.032 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **378.535** | **43.285** | **40.171** | **28.491** | **-** | **28.491** | **37.006** | **44.901** | **61.674** | **72.032** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Sentinel system is used with the Forward Area Air Defense Command and Control [FAAD C2] element and is a supporting program to the Integrated Air and Missile Defense architecture via the Integrated Air and Missile Defense Battle Command System [IBCS] to provide critical air surveillance of the forward areas.

Sentinel [AN/MPQ-64A1/A3] consists of a radar-based sensor with its prime mover/power, Identification Friend or Foe [IFF], and Forward Area Air Defense [FAAD] Command, Control and Intelligence [C2I] interfaces. The radar is deployed in both an air defense role and a sense and warn role for Counter-Rocket, Artillery, and Mortar [C-RAM] missions. The sensor is an advanced three-dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 75 km. Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols and enemy countermeasures. It provides 360-degree azimuth coverage for acquisition tracking. Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying and reporting targets [cruise missiles, unmanned aerial systems, rotary wing and fixed wing aircraft]. Sentinel acquires targets sufficiently forward of the battle area to allow weapons reaction time and allow engagement at optimum ranges. Sentinel's integrated IFF reduces the potential for fratricide of US and Coalition aircraft.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 28.407 | 22.741 | 27.149 | - | 27.149 | 17.699 | 22.451 | 33.429 | 36.436 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 14.878 | 17.430 | 1.342 | - | 1.342 | 19.307 | 22.450 | 28.245 | 35.596 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **43.285** | **40.171** | **28.491** | **-** | **28.491** | **37.006** | **44.901** | **61.674** | **72.032** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0214400A, 0604820A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-3a | WK5057 / Sentinel Mods (Operational) | | | | - / 378.535 | - / 43.285 | - / 40.171 | - / 28.491 | - / - | - / 28.491 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 378.535** | **- / 43.285** | **- / 40.171** | **- / 28.491** | **- / -** | **- / 28.491** |

| Exhibits Schedule | | | | | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-3a | WK5057 / Sentinel Mods (Operational) | | | | - / - | - / - | - / - | - / - | - / - | - / - |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 37.006** | **- / 44.901** | **- / 61.674** | **- / 72.032** | **Continuing** | **Continuing** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $28.491 million procures Analog to Digital Converters (ADC) and Signal Data Processor (SDP) kits for the fleet.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 378.535 | 43.285 | 40.171 | 28.491 | - | 28.491 | - | - | - | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 378.535 | 43.285 | 40.171 | 28.491 | - | 28.491 | - | - | - | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **378.535** | **43.285** | **40.171** | **28.491** | **-** | **28.491** | **-** | **-** | **-** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Sentinel Modifications include waveform upgrades for the Receiver/Exciter and Target Classification upgrades/replacement of the current Sentinel transmitter with Power Amplifier Modules [PAM]. The Exciter upgrades will provide low level Radio Frequency [RF] signals sufficient to support the acquisition and tracking of cruise missile targets and the generation of target classification waveforms. Receiver upgrades accomplish receipt and signal conditioning of low level RF signals prior to Analog/Digital [A/D] conversion sufficient to support the acquisition and tracking of cruise missile targets and target classification. Variable rotation rate provides capability to slow the antenna rotation, increasing time on target to acquire and track small cruise missile targets and to provide flexible antenna positioning capability for target classification waveforms. Target classification efforts include software implementation of target classification capability to support beyond visual range engagements.

The TPX-57 Mode 5 Identification Friend or Foe [IFF] modification kit replaces the current TPX-56 IFF. It also consists of a new router, enhanced Radar Control Terminal (eRCT), Signal Data Processor (SDP) box, and multiple circuit card assemblies. These modifications convert existing A1 radars to the A3 configuration. Mode 5 provides improvements over Mode 4 in crypto sensitivity, range performance, probability of identification, expanded reply data including position reports, elimination of garbled returns from closely spaced aircraft, friend from foe identification capability, lethal interrogation capability, reduced interference with Civil Air Traffic Control systems, and selective interrogation capability. Incorporation of Mode 5 into the Sentinel system is critical to retaining the cooperative target identification capability and Sentinel effectiveness on the current/future battlefield, allowing Sentinel to remain operationally effective in Air Defense operations and Homeland Defense missions. The addition of the eRCT, SDP cards and corresponding SDP box funds the mitigation of obsolescence issues; reliability, availability, and maintainability issues; and operational and hardware issues identified with fielded Sentinel radars. The eRCT enables remote operations and includes a tactical data recorder needed for Sentinel to support Counter-Rocket, Artillery, and Mortar [C-RAM] requirements. The addition of an Ethernet Router is required to meet Information Assurance requirements for the eRCT and to add Command and Control connectivity to the Sentinel system.

The Common Platform Upgrade will modify the current Sentinel prime mover to a common Army platform to meet Brigade Combat Team [BCT] force protection, as well as meet Integrated Air and Missile Defense Battle Command System [IBCS] system requirements. Transition to a common Army platform is in compliance with Acquisition Decision Memorandum dated August 2011. The current Sentinel platform does not meet the force protection requirements as defined by the BCT maneuver mission and IBCS operational requirements.

The North Finding Module [NFM] Upgrade will enhance the system's emplacement accuracy, resulting in improved fire control support and replacement of the obsolete NFM.

The Electronic Attack/Electronic Protect [EA/EP] addresses the electronic countermeasures [ECM] gap. This effort procures Analog to Digital Converters (ADC) in order to address more extensive EA/EP signatures from evolving threats.

The Signal Data Processor [SDP] Upgrade is a redesign of the SDP backplane to provide higher data throughput to remove current limitations and an upgraded set of SDP cards to remove obsolescence. Provides for new SDP kit to address obsolescence issues and allow for additional Electronic Protect capability.

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

The Mode S effort will upgrade existing Sentinel Identification Friend or Foe (IFF) to address objective requirement to interrogate IFF Mode S. In the US, commercial aircraft must transition to Mode S capable units by 2020. Without the Mode S upgrade, Sentinel will have to rely on aircraft transponders responding to the legacy mode 3/A interrogations. The data available in the Mode S response will be valuable in identifying the aircraft and correlating Sentinel tracks with civil aviation tracks/data and other track data sources. Incorporates requirement for the Global Positioning System (GPS) to be M Code capable with the new interrogator.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 28.407 | 22.741 | 27.149 | - | 27.149 | - | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 14.878 | 17.430 | 1.342 | - | 1.342 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **43.285** | **40.171** | **28.491** | **-** | **28.491** | **-** | **-** | **-** | **-** |

**Development Status/Major Development Milestones**

| Date | Title | Description |
|---|---|---|
| Dec 2012 | TPX-57 (Mode 5 IFF) | Contract award for Base year. |
| Mar 2015 | Common Platform Upgrade | Integration began. |
| May 2017 | North Finding Module | Contract award for Base year |
| Jun 2018 | Electronic Attack/Electronic Protect (ADC) | Contract award for Base year |
| Jun 2018 | Signal Data Processor | Contract award for Base year. |
| Jan 2021 | Mode S | Contract award for Base year. |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |
| **Models of Systems Affected:** Sentinel [AN/MPQ-64] | **Modification Type:** Operational | **Related RDT&E PEs:** |

| Financial Plan | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| **Procurement** | | | | | | | | | | | | |
| ***Modification Item 1 of 6:*** Improved Sentinel | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Equipment | 143 / 227.072 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Engineering Services | 0 / 1.822 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Govt Program Management/Admin Support | 0 / 1.746 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Other Flyaway Support | 0 / 5.484 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Recurring* | *- / 236.124* | *- / 0.000* | *- / 0.000* | *- / 0.000* | *- / 0.000* | *- / 0.000* | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Improved Sentinel* | *143 / 236.124* | *0 / 0.000* | *0 / 0.000* | *0 / 0.000* | *0 / 0.000* | *0 / 0.000* | - / - | - / - | - / - | - / - | - / - | - / - |
| ***Modification Item 2 of 6:*** TPX-57 (Mode 5 IFF) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Equipment | 143 / 81.013 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Engineering Services | 0 / 1.664 | 0 / 0.207 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Govt Program Management/Admin Support | 0 / 4.398 | 0 / 0.051 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Other Flyaway Support | 0 / 10.074 | 0 / 0.694 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Initial Spares | 0 / 6.760 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Recurring* | *- / 103.909* | *- / 0.952* | *- / 0.000* | *- / 0.000* | *- / 0.000* | *- / 0.000* | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: TPX-57 (Mode 5 IFF)* | *143 / 103.909* | *0 / 0.952* | *0 / 0.000* | *0 / 0.000* | *0 / 0.000* | *0 / 0.000* | - / - | - / - | - / - | - / - | - / - | - / - |
| ***Modification Item 3 of 6:*** Common Platform Upgrade | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Equipment | 70 / 26.283 | 77 / 32.975 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Engineering Services | 0 / 0.144 | 0 / 0.826 | 0 / 0.133 | 0 / 0.120 | 0 / 0.000 | 0 / 0.120 | - / - | - / - | - / - | - / - | - / - | - / - |
| Govt Program Management/Admin Support | 0 / 1.581 | 0 / 1.961 | 0 / 0.043 | 0 / 0.043 | 0 / 0.000 | 0 / 0.043 | - / - | - / - | - / - | - / - | - / - | - / - |
| Other Flyaway Support | 0 / 4.112 | 0 / 4.513 | 0 / 0.530 | 0 / 0.540 | 0 / 0.000 | 0 / 0.540 | - / - | - / - | - / - | - / - | - / - | - / - |
| Initial Spares | 0 / 1.217 | 0 / 1.527 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Recurring* | *- / 33.337* | *- / 41.802* | *- / 0.706* | *- / 0.703* | *- / 0.000* | *- / 0.703* | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Common Platform Upgrade* | *70 / 33.337* | *77 / 41.802* | *0 / 0.706* | *0 / 0.703* | *0 / 0.000* | *0 / 0.703* | - / - | - / - | - / - | - / - | - / - | - / - |
| ***Modification Item 4 of 6:*** North Finding Module | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |
| **Models of Systems Affected:** Sentinel [AN/MPQ-64] | **Modification Type:** Operational | **Related RDT&E PEs:** |

| Financial Plan | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| Recurring | | | | | | | | | | | | |
| Equipment | 0 / 0.000 | 0 / 0.000 | 199 / 31.180 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Engineering Services | 0 / 0.000 | 0 / 0.000 | 0 / 0.756 | 0 / 0.120 | 0 / 0.000 | 0 / 0.120 | - / - | - / - | - / - | - / - | - / - | - / - |
| Govt Program Management / Admin Support | 0 / 0.000 | 0 / 0.000 | 0 / 1.828 | 0 / 0.074 | 0 / 0.000 | 0 / 0.074 | - / - | - / - | - / - | - / - | - / - | - / - |
| Other Flyaway Support | 0 / 0.000 | 0 / 0.000 | 0 / 4.645 | 0 / 0.540 | 0 / 0.000 | 0 / 0.540 | - / - | - / - | - / - | - / - | - / - | - / - |
| Initial Spares | 0 / 0.000 | 0 / 0.000 | 0 / 0.731 | 0 / 0.744 | 0 / 0.000 | 0 / 0.744 | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Recurring* | *- / 0.000* | *- / 0.000* | *- / 39.140* | *- / 1.478* | *- / 0.000* | *- / 1.478* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| *Subtotal: North Finding Module* | *0 / 0.000* | *0 / 0.000* | *199 / 39.140* | *0 / 1.478* | *0 / 0.000* | *0 / 1.478* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| ***Modification Item 5 of 6:*** Electronic Attack/Electronic Protect (ADC) | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Equipment | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 31 / 0.731 | 0 / 0.000 | 31 / 0.731 | - / - | - / - | - / - | - / - | - / - | - / - |
| Engineering Services | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.279 | 0 / 0.000 | 0 / 0.279 | - / - | - / - | - / - | - / - | - / - | - / - |
| Govt Program Management | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.103 | 0 / 0.000 | 0 / 0.103 | - / - | - / - | - / - | - / - | - / - | - / - |
| Other Flyaway Costs | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 1.297 | 0 / 0.000 | 0 / 1.297 | - / - | - / - | - / - | - / - | - / - | - / - |
| Initial Spares | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.034 | 0 / 0.000 | 0 / 0.034 | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Recurring* | *- / 0.000* | *- / 0.000* | *- / 0.000* | *- / 2.444* | *- / 0.000* | *- / 2.444* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| *Subtotal: Electronic Attack/Electronic Protect (ADC)* | *0 / 0.000* | *0 / 0.000* | *0 / 0.000* | *31 / 2.444* | *0 / 0.000* | *31 / 2.444* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| ***Modification Item 6 of 6:*** Signal Data Processor | | | | | | | | | | | | |
| A Kits | | | | | | | | | | | | |
| Recurring | | | | | | | | | | | | |
| Equipment | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 31 / 18.860 | 0 / 0.000 | 31 / 18.860 | - / - | - / - | - / - | - / - | - / - | - / - |
| Engineering Services | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.279 | 0 / 0.000 | 0 / 0.279 | - / - | - / - | - / - | - / - | - / - | - / - |
| Govt Program Management | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 1.099 | 0 / 0.000 | 0 / 1.099 | - / - | - / - | - / - | - / - | - / - | - / - |
| Other Flyaway Support | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 2.252 | 0 / 0.000 | 0 / 2.252 | - / - | - / - | - / - | - / - | - / - | - / - |
| Initial Spares | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.874 | 0 / 0.000 | 0 / 0.874 | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Recurring* | *- / 0.000* | *- / 0.000* | *- / 0.000* | *- / 23.364* | *- / 0.000* | *- / 23.364* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| *Subtotal: Signal Data Processor* | *0 / 0.000* | *0 / 0.000* | *0 / 0.000* | *31 / 23.364* | *0 / 0.000* | *31 / 23.364* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| *Subtotal: Procurement, All Modification Items* | *356 / 373.370* | *77 / 42.754* | *199 / 39.846* | *62 / 27.989* | *0 / 0.000* | *62 / 27.989* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| **Installation** | | | | | | | | | | | | |
| ***Modification Item 1 of 6:*** Improved Sentinel | 143 / 4.481 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |
| **Models of Systems Affected:** Sentinel [AN/MPQ-64] | **Modification Type:** Operational | **Related RDT&E PEs:** |

| Financial Plan | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| ***Modification Item 2 of 6:*** TPX-57 (Mode 5 IFF) | 92 / 0.684 | 51 / 0.317 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| ***Modification Item 3 of 6:*** Common Platform Upgrade | 0 / 0.000 | 22 / 0.214 | 48 / 0.325 | 48 / 0.309 | - / - | 48 / 0.309 | - / - | - / - | - / - | - / - | - / - | - / - |
| ***Modification Item 4 of 6:*** North Finding Module | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 30 / 0.193 | - / - | 30 / 0.193 | - / - | - / - | - / - | - / - | - / - | - / - |
| ***Modification Item 5 of 6:*** Electronic Attack/Electronic Protect (ADC) | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| ***Modification Item 6 of 6:*** Signal Data Processor | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| *Subtotal: Installation* | *235 / 5.165* | *73 / 0.531* | *48 / 0.325* | *78 / 0.502* | *- / -* | *78 / 0.502* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* | *- / -* |
| **Total** | | | | | | | | | | | | |
| **Total Cost (Procurement + Support + Installation)** | **378.535** | **43.285** | **40.171** | **28.491** | **-** | **28.491** | **-** | **-** | **-** | **-** | **-** | **-** |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

***Modification Item 1 of 6:*** Improved Sentinel

**Manufacturer Information**

| | |
|---|---|
| Manufacturer Name: Thales Raytheon Systems | Manufacturer Location: Fullerton, CA |
| Administrative Leadtime *(in Months)*: 7 | Production Leadtime *(in Months)*: 21 |

| Dates | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|
| Contract Dates | | | | | | | |
| Delivery Dates | | | | | | | |

**Installation Information**

**Method of Implementation:** Contractor Facility

| Installation Cost | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| Prior Years | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2016 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2017 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2018 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2019 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2020 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2021 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2022 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| To Complete | 143 / 4.481 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Total | 143 / 4.481 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |

**Installation Schedule**

| | PYS | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | TC | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | |
| In | 143 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Out | 143 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

***Modification Item 2 of 6:*** TPX-57 (Mode 5 IFF)

**Manufacturer Information**

| | |
|---|---|
| Manufacturer Name: Thales Raytheon Systems | Manufacturer Location: Fullerton, CA |
| Administrative Leadtime *(in Months)*: 3 | Production Leadtime *(in Months)*: 12 |

| Dates | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|
| Contract Dates | | | | | | | |
| Delivery Dates | | | | | | | |

**Installation Information**

**Method of Implementation:** Contractor Field Team

| Installation Cost | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| Prior Years | 92 / 0.684 | 51 / 0.317 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2016 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2017 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2018 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2019 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2020 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2021 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2022 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| To Complete | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Total | 92 / 0.684 | 51 / 0.317 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |

**Installation Schedule**

| | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | TC | Tot |
| In | 92 | 18 | 22 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Out | 92 | 18 | 22 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

***Modification Item 3 of 6:*** Common Platform Upgrade

**Manufacturer Information**

| | |
|---|---|
| Manufacturer Name: Letterkenny Army Depot | Manufacturer Location: Chambersburg, PA |
| Administrative Leadtime *(in Months)*: 3 | Production Leadtime *(in Months)*: 15 |

| Dates | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|
| Contract Dates | Jan 2016 | Jan 2017 | | | | | |
| Delivery Dates | Apr 2017 | Apr 2018 | | | | | |

**Installation Information**

**Method of Implementation:** Depot

| Installation Cost | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| Prior Years | 0 / 0.000 | 22 / 0.214 | 36 / 0.244 | 12 / 0.077 | - / - | 12 / 0.077 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2016 | 0 / 0.000 | 0 / 0.000 | 12 / 0.081 | 36 / 0.232 | - / - | 36 / 0.232 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2017 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2018 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2019 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2020 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2021 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2022 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| To Complete | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Total | 0 / 0.000 | 22 / 0.214 | 48 / 0.325 | 48 / 0.309 | - / - | 48 / 0.309 | - / - | - / - | - / - | - / - | - / - | - / - |

**Installation Schedule**

| | PYS | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | TC | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | |
| In | - | 0 | 0 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 |
| Out | - | 0 | 0 | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

***Modification Item 4 of 6:*** North Finding Module

**Manufacturer Information**

| | |
|---|---|
| Manufacturer Name: Honeywell | Manufacturer Location: Clearwater, Fl |
| Administrative Leadtime *(in Months)*: 8 | Production Leadtime *(in Months)*: 12 |

| Dates | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|
| Contract Dates | | May 2017 | | | | | |
| Delivery Dates | | May 2018 | | | | | |

**Installation Information**

**Method of Implementation:** Field Install

| Installation Cost | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| Prior Years | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2016 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2017 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 30 / 0.193 | - / - | 30 / 0.193 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2018 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2019 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2020 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2021 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2022 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| To Complete | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Total | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 30 / 0.193 | - / - | 30 / 0.193 | - / - | - / - | - / - | - / - | - / - | - / - |

**Installation Schedule**

| | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | TC | Tot |
| In | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 30 | 30 | 30 | 30 | 30 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199 |
| Out | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 30 | 30 | 30 | 30 | 30 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 199 |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

***Modification Item 5 of 6:*** Electronic Attack/Electronic Protect (ADC)

**Manufacturer Information**

| | |
|---|---|
| Manufacturer Name: Raytheon Command and Control Solutions, LLC | Manufacturer Location: Fullerton, CA |
| Administrative Leadtime *(in Months)*: 9 | Production Leadtime *(in Months)*: 15 |

| Dates | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|
| Contract Dates | | | Jun 2018 | | | | |
| Delivery Dates | | | Oct 2019 | | | | |

**Installation Information**

**Method of Implementation:** Contractor Facility

| Installation Cost | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| Prior Years | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2016 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2017 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2018 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2019 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2020 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2021 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2022 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| To Complete | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Total | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |

**Installation Schedule**

| | | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PYS | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | TC | Tot |
| In | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 7 | 20 | 15 | 12 | 14 | 76 | 199 |
| Out | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 7 | 20 | 15 | 12 | 14 | 76 | 199 |

| Exhibit P-3a, Individual Modification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** WK5057 / Sentinel Mods | **Modification Number / Title:** WK5057 / Sentinel Mods |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

***Modification Item 6 of 6:*** Signal Data Processor

**Manufacturer Information**

| | |
|---|---|
| Manufacturer Name: Raytheon Command and Control Solutions, LLC | Manufacturer Location: Fullerton, CA |
| Administrative Leadtime *(in Months)*: 9 | Production Leadtime *(in Months)*: 15 |

| Dates | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|
| Contract Dates | | | Jun 2018 | | | | |
| Delivery Dates | | | Oct 2019 | | | | |

**Installation Information**

**Method of Implementation:** Contractor Facility

| Installation Cost | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* | Qty *(Each)* / Total Cost *($ M)* |
| Prior Years | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2016 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2017 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2018 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2019 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2020 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2021 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| FY 2022 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| To Complete | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |
| Total | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | 0 / 0.000 | - / - | 0 / 0.000 | - / - | - / - | - / - | - / - | - / - | - / - |

**Installation Schedule**

| | PYS | FY 2016 | | | | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | TC | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | |
| In | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 7 | 20 | 15 | 12 | 14 | 76 | 199 |
| Out | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 7 | 20 | 15 | 12 | 14 | 76 | 199 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices |

| | | |
|---|---|---|
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 4,069 | 8,295 | 14,956 | 13,192 | 12 | 13,204 | 9,442 | 7,378 | 2,362 | 1,860 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 4,070.025 | 123.974 | 189.170 | 166.493 | 0.377 | 166.870 | 141.957 | 112.896 | 64.814 | 55.376 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 4,070.025 | 123.974 | 189.170 | 166.493 | 0.377 | 166.870 | 141.957 | 112.896 | 64.814 | 55.376 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **4,070.025** | **123.974** | **189.170** | **166.493** | **0.377** | **166.870** | **141.957** | **112.896** | **64.814** | **55.376** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 1,000.252 | 14.946 | 12.648 | 12.621 | 31.417 | 12.638 | 15.035 | 15.302 | 27.440 | 29.772 | Continuing | Continuing |

## Description:

Night Vision Devices (KA3500) is a summary budget line including the following programs:
(1) K36400 - The AN/PSQ-20 Enhanced Night Vision Goggle (ENVG) is a lightweight, helmet mounted device that expands a Soldier's Situational Awareness (SA) and lethality by fusing image intensification and long wave infrared into a single, integrated image. Adversaries currently have access to image intensified night vision goggle technology, but not a fused system. The ENVG enables superior combat overmatch capability. The ENVG provides dismounted Brigade Combat Team Warfighters the capability to observe and maneuver in all weather conditions, through obscurants, during limited visibility, and under all lighting conditions including total darkness while enabling rapid detection and engagement with rifle-mounted aiming lasers. The AN/PSQ-20 supports the tactical level of war; enabling the individual Soldier to see, understand, and act first; permitting superior tactical mobility and decisive engagement during limited visibility conditions.
(2) B53800 - This program provides funding to procure Laser Target Locators (LTL). The Laser Target Locator Modules (LTLM) is a lightweight, handheld, laser target locator with day and thermal sight capability as well as an internal Global Positioning System (GPS) receiver. LTLM provides the dismounted observer or Scout a fully digital, handheld system to accurately determine target location and the ability of call for fire during all weather and lighting conditions. LTLM improves speed, accuracy, and safety of use over previous systems of this type (e.g., Laser Target Locator System (LTLS)).

The ENVG Army Acquisition Objective (AAO) is 66,277; the Army Procurement Objective (APO) is 75,354.

The LTLM AAO is 13,012.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 6,726 | 12,810 | 9,776 | 12 | 9,788 | 6,857 | 6,733 | 1,867 | 1,351 |
| | Total Obligation Authority | 102.325 | 147.038 | 119.748 | 0.377 | 120.125 | 97.751 | 91.800 | 45.363 | 34.758 |
| ANG | Quantity | 1,569 | 2,146 | 3,416 | - | 3,416 | 2,585 | 464 | 495 | 509 |
| | Total Obligation Authority | 21.649 | 42.132 | 46.745 | - | 46.745 | 44.206 | 18.179 | 19.451 | 20.618 |
| AR | Quantity | - | - | - | - | - | - | 181 | - | - |
| | Total Obligation Authority | - | - | - | - | - | - | 2.917 | - | - |
| **Total:** | **Quantity** | **8,295** | **14,956** | **13,192** | **12** | **13,204** | **9,442** | **7,378** | **2,362** | **1,860** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>KA3500 / Night Vision Devices | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Secondary Distribution | Total Obligation Authority | 123.974 | 189.170 | 166.493 | 0.377 | 166.870 | 141.957 | 112.896 | 64.814 | 55.376 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>KA3500 / Night Vision Devices | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B53800 / Laser Target Locator Systems | P-5a, P-21 | A | | - / 845.116 | 751 / 26.197 | 705 / 32.973 | 504 / 21.876 | 10 / 0.350 | 514 / 22.226 |
| P-5 | K36400 / Helmet Mounted Enhanced Vision Devices | P-5a, P-21 | | | 4,069 / 3,224.909 | 7,544 / 97.777 | 14,251 / 156.197 | 12,688 / 144.617 | 2 / 0.027 | 12,690 / 144.644 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **4,069 / 4,070.025** | **8,295 / 123.974** | **14,956 / 189.170** | **13,192 / 166.493** | **12 / 0.377** | **13,204 / 166.870** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $166,493 million supports the procurement of 12,688 Enhanced Night Vision Goggles, 504 Laser Target Location Modules, and associated fielding costs.

FY 2018 OCO procurement dollars in the amount of $0.377 million supports the procurement of two (2) reset Enhanced Night Vision Goggles and ten (10) reset Laser Target Location Modules for equipment replacement.
.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.64,256

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 751 | 705 | 504 | 10 | 514 |
| Gross/Weapon System Cost *($ in Millions)* | 845.116 | 26.197 | 32.973 | 21.876 | 0.350 | 22.226 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 845.116 | 26.197 | 32.973 | 21.876 | 0.350 | 22.226 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **845.116** | **26.197** | **32.973** | **21.876** | **0.350** | **22.226** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 34.883 | 46.770 | 43.405 | 35.000 | 43.241 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Laser Target Locator(†) | 32.047 | 12,650 | 405.397 | 28.995 | 751 | 21.775 | 38.607 | 705 | 27.218 | 34.750 | 504 | 17.514 | 35.000 | 10 | 0.350 | 34.755 | 514 | 17.864 |
| Tripods | - | - | 6.049 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Project Management | - | - | 426.576 | - | - | 2.026 | - | - | 2.221 | - | - | 2.101 | - | - | - | - | - | 2.101 |
| Systems Engineering Support | - | - | 2.271 | - | - | 2.321 | - | - | 1.723 | - | - | 1.721 | - | - | - | - | - | 1.721 |
| Fielding | - | - | 4.825 | - | - | 0.075 | - | - | 1.811 | - | - | 0.540 | - | - | - | - | - | 0.540 |
| *Subtotal: Recurring Cost* | - | - | *845.116* | - | - | *26.197* | - | - | *32.973* | - | - | *21.876* | - | - | *0.350* | - | - | *22.226* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***845.116*** | **-** | **-** | ***26.197*** | **-** | **-** | ***32.973*** | **-** | **-** | ***21.876*** | **-** | **-** | ***0.350*** | **-** | **-** | ***22.226*** |
| **Gross/Weapon System Cost** | **-** | **-** | **845.116** | **34.883** | **751** | **26.197** | **46.770** | **705** | **32.973** | **43.405** | **504** | **21.876** | **35.000** | **10** | **0.350** | **43.241** | **514** | **22.226** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 691 | 514 | 260 | 10 | 270 |
| | Total Obligation Authority | 24.104 | 24.070 | 11.285 | 0.350 | 11.635 |
| ANG | Quantity | 60 | 191 | 244 | - | 244 |
| | Total Obligation Authority | 2.093 | 8.903 | 10.591 | - | 10.591 |
| **Total: Secondary Distribution** | **Quantity** | **751** | **705** | **504** | **10** | **514** |
| | **Total Obligation Authority** | **26.197** | **32.973** | **21.876** | **0.350** | **22.226** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 86 | **P-1 Line Item Number / Title:**<br>KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:**<br>B53800 / Laser Target Locator Systems |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: KA3500 / Night Vision Devices | Item Number / Title [DODIC]: B53800 / Laser Target Locator Systems |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Laser Target Locator(†) | | 2016 | Optics 1, Inc / Bedford, NH | C / IDIQ | ACC APG | Jul 2016 | Jul 2017 | 751 | 29.000 | Y | | |
| Laser Target Locator(†) | | 2017 | Optics 1, Inc / Bedford, NH | C / IDIQ | ACC APG | Apr 2017 | Sep 2017 | 705 | 38.610 | Y | | |
| Laser Target Locator(†) | | 2018 | Optics 1, Inc / Bedford, NH | C / IDIQ | ACC APG | Apr 2018 | Sep 2018 | 514 | 34.760 | Y | | |

(†) indicates the presence of a P-21

**Remarks:**
A competitive five year Firm Fixed Price (FFP) / Indefinite Delivery, Indefinite Quantity (IDIQ) contract was awarded to Optics 1, Inc., in July 2016. Technological advances have been incorporated reducing size, weight and cost of the system, LTLM II.

**Exhibit P-21, Production Schedule:** FY 2018 Army | **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86

**P-1 Line Item Number / Title:** KA3500 / Night Vision Devices

**Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Laser Target Locator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 12650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 751 | 0 | 751 | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | 40 | 80 | 120 | 511 |
| | 1 | 2017 | ARMY | 705 | 0 | 705 | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | 25 | 680 |
| | 1 | 2018 | ARMY | 514 | 0 | 514 | | | | | | | | | | | | | | | | | | | | | | | | | 514 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:** B53800 / Laser Target Locator Systems |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Laser Target Locator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 12650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 751 | 240 | 511 | 120 | 130 | 130 | 131 | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 705 | 25 | 680 | 25 | 58 | 58 | 58 | 58 | 69 | 69 | 69 | 72 | 72 | 72 | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 514 | 0 | 514 | | | | | | | A - | - | - | - | - | 42 | 42 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 86 | **P-1 Line Item Number / Title:**<br>KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:**<br>B53800 / Laser Target Locator Systems |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Optics 1, Inc - Bedford, NH | 10 | 80 | 200 | 2 | 9 | 12 | 21 | 2 | 6 | 5 | 11 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: KA3500 / Night Vision Devices | Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 4,069 | 7,544 | 14,251 | 12,688 | 2 | 12,690 |
| Gross/Weapon System Cost *($ in Millions)* | 3,224.909 | 97.777 | 156.197 | 144.617 | 0.027 | 144.644 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 3,224.909 | 97.777 | 156.197 | 144.617 | 0.027 | 144.644 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **3,224.909** | **97.777** | **156.197** | **144.617** | **0.027** | **144.644** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 792.556 | 12.961 | 10.960 | 11.398 | 13.500 | 11.398 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| AN/PSQ-20 (ENVG I/ II) | 12.000 | 28,605 | 343.260 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AN/PSQ-20 (ENVG III) Qual Systems | 37.000 | 1,420 | 52.540 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AN/PSQ-20 (ENVG III)(†) | 13.000 | 3,360 | 43.680 | 9.000 | 7,544 | 67.896 | 7.839 | 14,251 | 111.717 | 7.998 | 12,688 | 101.480 | 8.000 | 2 | 0.016 | 7.998 | 12,690 | 101.496 |
| I2 Tubes | - | - | 18.862 | - | - | 8.232 | - | - | 17.499 | - | - | 9.742 | - | - | - | - | - | 9.742 |
| Engineering Support | - | - | 13.966 | - | - | 2.746 | - | - | 1.580 | - | - | 2.731 | - | - | - | - | - | 2.731 |
| Project Management Admin | - | - | 138.608 | - | - | 3.027 | - | - | 7.294 | - | - | 6.767 | - | - | - | - | - | 6.767 |
| Fielding | - | - | 2,532.883 | - | - | 3.294 | - | - | 10.000 | - | - | 17.772 | - | - | 0.011 | - | - | 17.783 |
| Ancillary Support | - | - | 58.055 | - | - | 3.466 | - | - | 8.107 | - | - | 4.071 | - | - | - | - | - | 4.071 |
| Contract Data Requirements Lists | - | - | 16.137 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Test Measurement Diagnostics Equipment (TMDE) | - | - | 6.918 | - | - | 1.901 | - | - | - | - | - | 2.054 | - | - | - | - | - | 2.054 |
| Helmet Mount Assemblies | - | - | - | - | - | 1.780 | - | - | - | - | - | - | - | - | - | - | - | - |
| Laser Target Locator | - | - | - | - | - | 1.685 | - | - | - | - | - | - | - | - | - | - | - | - |
| JUONs | - | - | - | - | - | 3.750 | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:** K36400 / Helmet Mounted Enhanced Vision Devices |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | | **MDAP/MAIS Code:** |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Recurring Cost* | - | - | *3,224.909* | - | - | *97.777* | - | - | *156.194* | - | - | *144.616* | - | - | *0.027* | - | - | *144.643* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***3,224.909*** | **-** | **-** | ***97.777*** | **-** | **-** | ***156.194*** | **-** | **-** | ***144.616*** | **-** | **-** | ***0.027*** | **-** | **-** | ***144.643*** |
| **Gross/Weapon System Cost** | **792.556** | **4,069** | **3,224.909** | **12.961** | **7,544** | **97.777** | **10.960** | **14,251** | **156.197** | **11.398** | **12,688** | **144.617** | **13.500** | **2** | **0.027** | **11.398** | **12,690** | **144.644** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 6,035 | 12,296 | 9,516 | 2 | 9,518 |
| | Total Obligation Authority | 78.221 | 122.968 | 108.463 | 0.027 | 108.490 |
| ANG | Quantity | 1,509 | 1,955 | 3,172 | - | 3,172 |
| | Total Obligation Authority | 19.556 | 33.229 | 36.154 | - | 36.154 |
| **Total: Secondary Distribution** | **Quantity** | **7,544** | **14,251** | **12,688** | **2** | **12,690** |
| | **Total Obligation Authority** | **97.777** | **156.197** | **144.617** | **0.027** | **144.644** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: KA3500 / Night Vision Devices | Item Number / Title [DODIC]: K36400 / Helmet Mounted Enhanced Vision Devices |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AN/PSQ-20 (ENVG III)(†) | | 2016 | DRS RSTA, Inc / Dallas, TX | C / IDIQ | ACC-APG | Jun 2016 | Nov 2017 | 6,344 | 8.640 | Y | | |
| AN/PSQ-20 (ENVG III)(†) | | 2016 | BAE Systems / Nashua, NH | C / IDIQ | ACC/APG | Sep 2016 | Jan 2018 | 1,200 | 8.640 | Y | | |
| AN/PSQ-20 (ENVG III)(†) | | 2017 | TBS (AN/PSQ-20) ENVG III / TBD | C / IDIQ | ACC-APG | May 2017 | Feb 2018 | 14,251 | 7.840 | Y | | |
| AN/PSQ-20 (ENVG III)(†) | | 2018 | TBS (AN/PSQ-20) ENVG III / TBD | C / IDIQ | ACC/APG | Dec 2017 | Jul 2018 | 12,690 | 8.000 | Y | | |

(†) indicates the presence of a P-21

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:** K36400 / Helmet Mounted Enhanced Vision Devices |

| Cost Elements (Units in Thousands) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| AN/PSQ-20 (ENVG III) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 3360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 6.344 | .000 | 6.344 | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.344 |
| | 2 | 2016 | ARMY | 1.200 | .000 | 1.200 | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 1.200 |
| | 3 | 2017 | ARMY | 14.251 | .000 | 14.251 | | | | | | | | | | | | | | | | | | | | A - | - | - | - | - | 14.251 |
| | 3 | 2018 | ARMY | 12.690 | .000 | 12.690 | | | | | | | | | | | | | | | | | | | | | | | | | 12.690 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:** K36400 / Helmet Mounted Enhanced Vision Devices |

| Cost Elements (Units in Thousands) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| AN/PSQ-20 (ENVG III) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 3360 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 6.344 | .000 | 6.344 | - | .200 | .300 | .450 | .500 | .500 | .500 | .500 | .500 | .600 | .750 | .750 | .794 | | | | | | | | | | | | .000 |
| | 2 | 2016 | ARMY | 1.200 | .000 | 1.200 | - | - | - | .150 | .150 | .150 | .150 | .150 | .150 | .150 | .150 | | | | | | | | | | | | | | .000 |
| | 3 | 2017 | ARMY | 14.251 | .000 | 14.251 | - | - | - | - | 1.185 | 1.185 | 1.185 | 1.185 | 1.185 | 1.186 | 1.185 | 1.191 | 1.191 | 1.191 | 1.191 | 1.191 | | | | | | | | | .000 |
| | 3 | 2018 | ARMY | 12.690 | .000 | 12.690 | | | A - | - | - | - | - | - | - | .200 | .400 | .700 | 1.055 | 1.280 | 1.280 | 1.280 | 1.280 | 1.280 | 1.280 | 1.325 | 1.330 | | | | .000 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** KA3500 / Night Vision Devices | **Item Number / Title [DODIC]:** K36400 / Helmet Mounted Enhanced Vision Devices |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | DRS RSTA, Inc - Dallas, TX | 200 | 500 | 1,300 | 2 | 8 | 17 | 25 | 2 | 3 | 7 | 10 |
| 2 | BAE Systems - Nashua, NH | 200 | 500 | 1,300 | 2 | 11 | 16 | 27 | 1 | 5 | 7 | 12 |
| 3 | TBS (AN/PSQ-20) ENVG III - TBD | 200 | 500 | 1,432 | 2 | 8 | 6 | 14 | 2 | 3 | 8 | 11 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** K35110 / Small Tactical Optical Rifle Mounted MLRF |

| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 5,339 | 1,302 | 1,360 | 620 | 6 | 626 | 1,428 | 1,553 | 1,542 | 1,799 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 104.359 | 19.677 | 18.843 | 13.947 | 0.060 | 14.007 | 23.846 | 23.883 | 24.216 | 27.876 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 104.359 | 19.677 | 18.843 | 13.947 | 0.060 | 14.007 | 23.846 | 23.883 | 24.216 | 27.876 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **104.359** | **19.677** | **18.843** | **13.947** | **0.060** | **14.007** | **23.846** | **23.883** | **24.216** | **27.876** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 19.547 | 15.113 | 13.855 | 22.495 | 10.000 | 22.375 | 16.699 | 15.379 | 15.704 | 15.495 | Continuing | Continuing |

## Description:

The AN/PSQ-23 Small Tactical Optical Rifle Mounted (STORM) Micro-Laser Rangefinder (MLRF) is a weapon-mounted, multi-function laser system. It provides an eye safe laser rangefinder, digital compass, Infrared (IR) and visible aiming lights, and an IR illuminator for far target location with continuous range, accuracy, weight and power performance enhanced capabilities. When connected to a Precision Lightweight Global Receiver/Defense Advanced Global Positioning System (GPS) Receiver (PLGR/DAGR), the AN/PSQ-23 provides range and direction information to develop accurate and timely far target locations. The STORM addresses the lack of depth perception for night applications through use of its IR illuminator and rangefinder. The STORM system provides a stand-alone capability for small unit leaders and Snipers.

The Army Acquisition Objective (AAO) for STORM is 24,163.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 898 | 1,051 | 311 | 6 | 317 | 869 | 1,531 | 1,542 | 1,799 |
| | Total Obligation Authority | 13.577 | 14.482 | 6.996 | 0.060 | 7.056 | 14.511 | 23.545 | 24.216 | 27.876 |
| ANG | Quantity | 404 | 309 | 309 | - | 309 | 559 | - | - | - |
| | Total Obligation Authority | 6.100 | 4.361 | 6.951 | - | 6.951 | 9.335 | - | - | - |
| AR | Quantity | - | - | - | - | - | - | 22 | - | - |
| | Total Obligation Authority | - | - | - | - | - | - | 0.338 | - | - |
| **Total: Secondary Distribution** | **Quantity** | **1,302** | **1,360** | **620** | **6** | **626** | **1,428** | **1,553** | **1,542** | **1,799** |
| | **Total Obligation Authority** | **19.677** | **18.843** | **13.947** | **0.060** | **14.007** | **23.846** | **23.883** | **24.216** | **27.876** |

**Justification:**
FY 2018 Base procurement dollars in the amount of $13.947 million supports the procurement of 620 STORM systems for fielding to small unit leaders and Snipers.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>K35110 / Small Tactical Optical Rifle Mounted MLRF | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
| **Line Item MDAP/MAIS Code:** N/A | | |

FY 2018 OCO procurement dollars in the amount of $.060 million supports the procurement of 6 STORM systems for equipment replacement.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>BZ6501 / Base Expeditiary Targeting and Surv Sys |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,552.988 | 4.839 | 82.590 | - | - | - | - | - | - | - | - | 1,640.417 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,552.988 | 4.839 | 82.590 | - | - | - | - | - | - | - | - | 1,640.417 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,552.988** | **4.839** | **82.590** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **1,640.417** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Base Expeditionary Targeting and Surveillance System - Combined (BETSS-C) consists of mobile and semi-fixed sensors providing targeting and surveillance, Force Protection (FP), and Counter Improvised Explosive Devices (CIED) capabilities for 360 degree day and night coverage. This program provides modular and scalable sensor architecture of "plug and play" common components that can be tailored to meet mission specific requirements. The integrated System of Systems (SoS) will be comprised of existing sensor systems that combine to meet the aggregated requirements of stated needs from deployed forces. The BETSS-C Quick Reaction Capability (QRC) program began in 2008 with an overarching Central Command (CENTCOM) Joint Urgent Operational Needs Statement (JUONS) which was the combination of multiple JUONS. BETSS-C is a SoS comprised a combination of Intelligence, Surveillance, and Reconnaissance (ISR); Battle Command; and FP sensor systems providing tactical commanders with video, images, and other data. The BETSS-C SoS is an evolving FP enterprise architecture with increasing interoperability, robust communications, and a common Command and Control (C2). The BETSS-C program includes the following systems: Rapid Aerostat Initial Deployment (RAID), Cerberus Trailers, Cerberus Scout, Force Protection Suite (FPS), Mid-Range Thermal Imagers (MRTI), Rapid Deployment Integrated Surveillance System (RDISS), Standard Ground Surveillance (SGS), Persistent Surveillance System – Ground (Heavy and Medium Platforms), and ancillary equipment.

The BETSS-C sensors are Commercial Off the Shelf (COTS) components that are a form-fit-function replacements for the legacy sensors.

**Justification:**

There is no FY 2018 funding request.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604741A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 184 | 483 | 280 | - | - | - | - | - | - | - | - | 947 |
| Gross/Weapon System Cost *($ in Millions)* | 150.995 | 60.679 | 267.007 | 21.380 | 57.500 | 78.880 | 15.707 | - | 0.712 | - | - | 573.980 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 150.995 | 60.679 | 267.007 | 21.380 | 57.500 | 78.880 | 15.707 | - | 0.712 | - | - | 573.980 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **150.995** | **60.679** | **267.007** | **21.380** | **57.500** | **78.880** | **15.707** | **-** | **0.712** | **-** | **-** | **573.980** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 820.625 | 125.629 | 953.596 | - | - | - | - | - | - | - | - | 606.103 |

## Description:

The Rocket, Artillery, Mortar (RAM) Warn program (H30503) evolved from the Counter-Rocket, Artillery, Mortar (C-RAM) program and is a horizontal technology insertion, using current C-RAM warning capability to provide early, localized warning of indirect fire (IDF) threats to all Maneuver Brigade Combat Teams (BCT). It employs the Air Defense Airspace Management (ADAM) Cell already resident in the BCT Headquarters as the command and control (C2) element; uses the existing radars in the Target Acquisition Platoon of the Fires Battalion as the Sense element; and adds enhanced warning devices, controllers, and dedicated communications devices between the existing radars, ADAM Cell, and warning systems. Integration of this equipment provides a Warn capability to the BCTs for detection of threat IDF rounds and transmission of the detection data to the C2 element for correlation and determination of a predicted point of impact (POI). Based on the POI, the C2 then determines which warning nodes should send "Incoming" warning alarms and transmits this information to the appropriate warning nodes. In addition to the representative RAM Warn capability fielded to each BCT, Army Pre-positioned Stocks (APS) equipment sets are being procured to supplement the fielded capability based on mission needs. Timely warning will enable those BCT personnel in the hazard area of an inbound IDF threat to seek cover or a prone position prior to impact, thus reducing casualties. The Capability Production Document (CPD) was approved in August 2010, and an update was approved in May 2012, to reflect the name change to RAM Warn. An initial operational test (IOT) was conducted during November 2012 as part of Network Integration Evaluation (NIE) 13.1, and the RAM Warn Milestone C Low Rate Initial Production (LRIP) decision occurred on 19 December 2012. In April 2014, RAM Warn was approved for entry into the Full Rate Production (FRP) acquisition phase based on successful completion of LRIP exit criteria, including Full Materiel Release.

The C-RAM Intercept program (H30504) provides a counter-RAM capability to the Indirect Fire Protection Capability (IFPC)/Avenger battalions, 5-5 and 2-44 Air Defense Artillery (ADA), to defend against and defeat the enduring indirect fire threat. This capability is provided by fielding existing Land-based Phalanx Weapon System (LPWS) guns previously produced as a part of the C-RAM quick reaction capability for theater operations; the guns undergo reset prior to fielding. C-RAM Intercept transitioned to an acquisition program with the approval of the C-RAM Intercept CPD on 22 Aug 2013 and the Army Acquisition Executive's approval of an Acquisition Decision Memorandum (ADM) on 23 Aug 2013, authorizing the program's entry into the acquisition management system as a post-Milestone C, Acquisition Category (ACAT) III program under the management of the Program Executive Officer, Missiles and Space. Initial issue of LPWS assets to the IFPC/Avenger battalions is ongoing. A Conditional Materiel Release for LPWS with Spiral 6.0 software was approved on 2 June 2016.

For transparency and in support of the Counter Unmanned Aerial System (C-UAS) Joint Urgent Operational Need (JUON) Statement CC-0558, SSN H30505 was created to support the identification, development, testing, evaluation and integration of technologies to provide an overall evolutionary capability to defeat small Unmanned Aerial Systems (UAS) threats. The C-UAS effort will provide the capability for the warfighter to comprehensively detect, identify and defeat enemy Group 1 and 2 light weight, low altitude UAS. The C-UAS effort involves a phased development and testing approach of Counter UAS Systems. The incremental approach provides interim standalone capability within the first few months and achieves a full networked capability by end of two-year JUON period. To follow is a recap of funding provided in support of C-UAS JUON CC-0558:

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604741A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

- Rapid Acquisition Authority (RAA) approved for the first quarter FY 2017 research and development efforts in the amount of $65.500 million was sourced by FY 2017 OCO Operations and Maintenance (OMA) funds in support of JUON CC-0558. These funds are being used in support of system engineering, testing, integration, and logistics.

- Rapid Acquisition Authority (RAA) approved for research and development efforts in the amount of $76.000 million starting in late first quarter FY2017 was sourced by FY 2017 OCO Operations and Maintenance (OMA) funds in support of JUON CC-0558. These funds are being used for development and integration of mobile and expeditionary Low-slow-small UAS Integrated Defeat Systems.

- FY 2017 Overseas Contingency Operations (OCO) Other Procurement, Army (OPA) December 2016 Amendment in the amount of $72.000 million supports Joint Urgent Operational Need (JUON) CC-0558 addressing incremental improvements to deployed capability as informed by test events at each phase.

- FY 2017 Overseas Contingency Operations (OCO) Research, Development, Test & Evaluation (RDT&E) December 2016 Amendment in the amount of $78.700 million supports Joint Urgent Operational Need (JUON) CC-0558 providing test events at each phase to inform incremental improvements to deployed capability.

- FY 2017 Overseas Contingency Operations (OCO) Other Procurement, Army (OPA) March 2017 Amendment in the amount of $57.750 million supports Joint Urgent Operational Need (JUON) CC-0558 to develop and test kinetic kill defeat options for integration into the Low-slow-small UAS Integrated Defeat System.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 208 | 159 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 40.118 | 251.014 | 21.380 | 57.500 | 78.880 | 15.707 | - | 0.712 | - |
| ANG | Quantity | 275 | 121 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 20.561 | 15.993 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **483** | **280** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **60.679** | **267.007** | **21.380** | **57.500** | **78.880** | **15.707** | **-** | **0.712** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604741A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | H30503 / Rocket, Artillery, Mortar (RAM) Warn | P-5a | | | 184 / 66.926 | 483 / 42.458 | 280 / 29.680 | - / 11.380 | - / - | - / 11.380 |
| P-5 | H30504 / C-RAM Enhancements | | | | - / 84.069 | - / 18.221 | - / 62.687 | - / - | - / - | - / - |
| P-5 | H30505 / Counter Aerial Unmanned Systems (CUAS) | | | | - / - | - / - | - / 174.640 | - / 10.000 | - / 57.500 | - / 67.500 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **184 / 150.995** | **483 / 60.679** | **280 / 267.007** | **- / 21.380** | **- / 57.500** | **- / 78.880** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2018 Base procurement dollars (H30503) in the amount of $11.380 million provide required RAM Warn BCT fielding/training support and insertion of an enhanced secure communications capability.

FY 2018 Base procurement dollars (H30505) in the amount of $10.000 million to support Network Security Enhancements. These funds will be realigned to the SSN H30504 C-RAM Enhancements line.

FY 2018 OCO procurement dollars (H30505) in the amount of $57.500 million provides expeditionary mobile and static configuration with kinetic defeat capability for integration in to the Low-slow-small UAS Integrated Defeat System (LIDS) in support Joint Urgent Operational Need (JUON) CC-0558. This implements the phased approach to improve C-UAS capability over the period of the JUON. These funds will procure and integrate upgraded components for the LIDS as determined by Test Event analysis, kinetic defeat hardware and software components, provide spares, conduct New Equipment Training (NET), as well as provide shipping, transportation, and repairs for deployed systems.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems | **Item Number / Title [DODIC]:** H30503 / Rocket, Artillery, Mortar (RAM) Warn |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 184 | 483 | 280 | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 66.926 | 42.458 | 29.680 | 11.380 | - | 11.380 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 66.926 | 42.458 | 29.680 | 11.380 | - | 11.380 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **66.926** | **42.458** | **29.680** | **11.380** | **-** | **11.380** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 363.728 | 87.905 | 106.000 | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware & Integration(†) | 133.445 | 407 | 54.312 | 68.139 | 483 | 32.911 | 51.531 | 475 | 24.477 | 34.759 | 270 | 9.385 | - | - | - | 34.759 | 270 | 9.385 |
| *Subtotal: Recurring Cost* | - | - | *54.312* | - | - | *32.911* | - | - | *24.477* | - | - | *9.385* | - | - | - | - | - | *9.385* |
| ***Subtotal: Flyaway Cost*** | **-** | **-** | ***54.312*** | **-** | **-** | ***32.911*** | **-** | **-** | ***24.477*** | **-** | **-** | ***9.385*** | **-** | **-** | **-** | **-** | **-** | ***9.385*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 6.983 | - | - | 5.976 | - | - | 3.190 | - | - | 1.223 | - | - | - | - | - | 1.223 |
| ***Subtotal: Support - Fielding Cost*** | **-** | **-** | ***6.983*** | **-** | **-** | ***5.976*** | **-** | **-** | ***3.190*** | **-** | **-** | ***1.223*** | **-** | **-** | **-** | **-** | **-** | ***1.223*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 5.631 | - | - | 3.571 | - | - | 2.013 | - | - | 0.772 | - | - | - | - | - | 0.772 |
| ***Subtotal: Support - Program Management Cost*** | **-** | **-** | ***5.631*** | **-** | **-** | ***3.571*** | **-** | **-** | ***2.013*** | **-** | **-** | ***0.772*** | **-** | **-** | **-** | **-** | **-** | ***0.772*** |
| **Gross/Weapon System Cost** | **363.728** | **184** | **66.926** | **87.905** | **483** | **42.458** | **106.000** | **280** | **29.680** | **-** | **-** | **11.380** | **-** | **-** | **-** | **-** | **-** | **11.380** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 208 | 159 | - | - | - |
| | Total Obligation Authority | 21.897 | 13.687 | 11.380 | - | 11.380 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems | **Item Number / Title [DODIC]:** H30503 / Rocket, Artillery, Mortar (RAM) Warn |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| ANG | Quantity | 275 | 121 | - | - | - |
| | Total Obligation Authority | 20.561 | 15.993 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **483** | **280** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **42.458** | **29.680** | **11.380** | **-** | **11.380** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems | **Item Number / Title [DODIC]:** H30503 / Rocket, Artillery, Mortar (RAM) Warn |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hardware & Integration | | 2016 | Northrop Grumman / Huntsville | SS / IDIQ | AMCOM | Mar 2016 | Sep 2016 | 483 | 68.140 | | | |
| Hardware & Integration | | 2017 | Northrop Grumman / Huntsville | SS / IDIQ | AMCOM | Jul 2018 | Dec 2018 | 475 | 51.530 | | | |
| Hardware & Integration | | 2018 | Northrop Grumman / Huntsville | SS / IDIQ | AMCOM | Jul 2018 | Dec 2018 | 270 | 34.760 | | | |

**Remarks:**
RAM Warn is a hardware integration effort employing COTS and existing GOTS hardware.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: BZ0501 / Indirect Fire Protection Family Of Systems | Item Number / Title [DODIC]: H30504 / C-RAM Enhancements |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 84.069 | 18.221 | 62.687 | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 84.069 | 18.221 | 62.687 | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **84.069** | **18.221** | **62.687** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware & Integration | 115.725 | 69 | 7.985 | - | - | - | - | - | 39.670 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *7.985* | - | - | - | - | - | *39.670* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***7.985*** | **-** | **-** | **-** | **-** | **-** | ***39.670*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 68.600 | - | - | 16.599 | - | - | 19.244 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | ***68.600*** | **-** | **-** | ***16.599*** | **-** | **-** | ***19.244*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 7.484 | - | - | 1.622 | - | - | 3.773 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***7.484*** | **-** | **-** | ***1.622*** | **-** | **-** | ***3.773*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **84.069** | **-** | **-** | **18.221** | **-** | **-** | **62.687** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 18.221 | 62.687 | - | - | - |
| **Total:** | **Quantity** | **-** | **-** | **-** | **-** | **-** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems | **Item Number / Title [DODIC]:** H30504 / C-RAM Enhancements |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Secondary Distribution | Total Obligation Authority | 18.221 | 62.687 | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems | **Item Number / Title [DODIC]:** H30505 / Counter Aerial Unmanned Systems (CUAS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 174.640 | 10.000 | 57.500 | 67.500 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 174.640 | 10.000 | 57.500 | 67.500 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **174.640** | **10.000** | **57.500** | **67.500** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware and Integration | - | - | - | - | - | - | 590.517 | 240 | 141.724 | - | - | 10.000 | - | - | 36.852 | - | - | 46.852 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *141.724* | - | - | *10.000* | - | - | *36.852* | - | - | *46.852* |
| *Subtotal: Flyaway Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***141.724*** | **-** | **-** | ***10.000*** | **-** | **-** | ***36.852*** | **-** | **-** | ***46.852*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | - | - | - | - | - | - | 23.704 | - | - | - | - | - | 15.530 | - | - | 15.530 |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***23.704*** | **-** | **-** | **-** | **-** | **-** | ***15.530*** | **-** | **-** | ***15.530*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | - | - | - | - | - | - | 9.212 | - | - | - | - | - | 5.118 | - | - | 5.118 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***9.212*** | **-** | **-** | **-** | **-** | **-** | ***5.118*** | **-** | **-** | ***5.118*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **174.640** | **-** | **-** | **10.000** | **-** | **-** | **57.500** | **-** | **-** | **67.500** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | 174.640 | 10.000 | 57.500 | 67.500 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BZ0501 / Indirect Fire Protection Family Of Systems | **Item Number / Title [DODIC]:** H30505 / Counter Aerial Unmanned Systems (CUAS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | 174.640 | 10.000 | 57.500 | 67.500 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS) |

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: N/A | Other Related Program Elements: 0603774A, 0604710A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 208 | 4,760 | 4,809 | - | 4,809 | 13,033 | 16,436 | 15,233 | 10,061 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 2.000 | 30.194 | 55.536 | 59.105 | - | 59.105 | 136.991 | 188.535 | 183.643 | 125.027 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 2.000 | 30.194 | 55.536 | 59.105 | - | 59.105 | 136.991 | 188.535 | 183.643 | 125.027 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **2.000** | **30.194** | **55.536** | **59.105** | **-** | **59.105** | **136.991** | **188.535** | **183.643** | **125.027** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 145.163 | 11.667 | 12.291 | - | 12.291 | 10.511 | 11.471 | 12.056 | 12.427 | Continuing | Continuing |

## Description:

Family of Weapons Sights (FWS) consist of Individual (I), Crew-Served (CS), Sniper (S) variants, and the Thermal Weapon Sights (TWS). The FWS family sights will increase lethality and improve situational awareness by extending the range a Warfighter can recognize potential targets. The FWS-I reduces target engagement time in both day and night conditions through Rapid Target Acquisition (RTA). The FWS-CS will enable a crew served weapon gunner to more accurately engage targets in less time by utilizing a Head Mounted Display and disturbed reticle that adjusts the aim point. A new baby SSN (K22003) FWS-CS is a new start in FY18. The FWS-S will provide greater detection, recognition and aiding in identification at greater ranges during periods of darkness and limited visibility. A new baby SSN (K22004) FWS-S is a new start in FY18.

FWS-I Army Acquisition Objective (AAO) is 36,443
FWS-CS AAO is 25,310
FWS-S AAO is 3,645

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 166 | 3,808 | 3,848 | - | 3,848 | 11,068 | 13,627 | 12,047 | 9,323 |
| | Total Obligation Authority | 24.155 | 44.345 | 47.652 | - | 47.652 | 115.293 | 157.417 | 140.287 | 103.483 |
| ANG | Quantity | 42 | 952 | 961 | - | 961 | 1,965 | 2,626 | 3,186 | 738 |
| | Total Obligation Authority | 6.039 | 11.191 | 11.453 | - | 11.453 | 21.698 | 29.371 | 43.356 | 21.544 |
| AR | Quantity | - | - | - | - | - | - | 183 | - | - |
| | Total Obligation Authority | - | - | - | - | - | - | 1.747 | - | - |
| **Total:** | **Quantity** | **208** | **4,760** | **4,809** | **-** | **4,809** | **13,033** | **16,436** | **15,233** | **10,061** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>K22001 / FAMILY OF WEAPON SIGHTS (FWS) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0603774A, 0604710A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Secondary Distribution | Total Obligation Authority | 30.194 | 55.536 | 59.105 | - | 59.105 | 136.991 | 188.535 | 183.643 | 125.027 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>K22001 / FAMILY OF WEAPON SIGHTS (FWS) |

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: N/A | Other Related Program Elements: 0603774A, 0604710A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | K22002 / FWS-INDIVIDUAL | P-5a, P-21 | B | | - / 2.000 | 208 / 30.194 | 4,760 / 55.536 | 4,759 / 49.887 | - / - | 4,759 / 49.887 |
| P-5 | K22003 / FWS-CREW SERVED | | B | | - / - | - / - | - / - | - / 1.033 | - / - | - / 1.033 |
| P-5 | K22004 / FWS-SNIPER | P-5a | B | | - / - | - / - | - / - | 50 / 8.185 | - / - | 50 / 8.185 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 2.000** | **208 / 30.194** | **4,760 / 55.536** | **4,809 / 59.105** | **- / -** | **4,809 / 59.105** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $59.105 million supports the procurement of 4,759 FWS-I systems, 50 FWS-S qualification systems and funds, FWS-CS program management support post MS C.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS) | Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 208 | 4,760 | 4,759 | - | 4,759 |
| Gross/Weapon System Cost *($ in Millions)* | 2.000 | 30.194 | 55.536 | 49.887 | - | 49.887 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 2.000 | 30.194 | 55.536 | 49.887 | - | 49.887 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **2.000** | **30.194** | **55.536** | **49.887** | **-** | **49.887** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 145.163 | 11.667 | 10.483 | - | 10.483 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| FWS - I Hardware (Test Assets)(†) | - | - | - | 85.308 | 208 | 17.744 | - | - | - | - | - | - | - | - | - | - | - | - |
| FWS - I Hardware (LRIP Assets)(†) | - | - | - | - | - | - | 7.500 | 4,760 | 35.698 | - | - | - | - | - | - | - | - | - |
| FWS - I Hardware (FRP Assets)(†) | - | - | - | - | - | - | - | - | - | 6.191 | 4,759 | 29.462 | - | - | - | 6.191 | 4,759 | 29.462 |
| Test and Measurement Diagnostics Equipment | - | - | - | - | - | - | - | - | - | - | - | 6.391 | - | - | - | - | - | 6.391 |
| Program Management Support | - | - | - | - | - | 1.000 | - | - | 3.107 | - | - | 4.108 | - | - | - | - | - | 4.108 |
| Government Engineering Support | - | - | - | - | - | 2.208 | - | - | 1.942 | - | - | 0.985 | - | - | - | - | - | 0.985 |
| FWS-I Fielding | - | - | - | - | - | 4.028 | - | - | 8.405 | - | - | 2.932 | - | - | - | - | - | 2.932 |
| Engineering Change Proposal | - | - | - | - | - | - | - | - | 1.072 | - | - | 0.884 | - | - | - | - | - | 0.884 |
| Testing | - | - | - | - | - | - | - | - | 1.071 | - | - | 0.295 | - | - | - | - | - | 0.295 |
| Ancillary Support | - | - | - | - | - | 1.578 | - | - | 2.241 | - | - | 1.927 | - | - | - | - | - | 1.927 |
| Documentation | - | - | - | - | - | - | - | - | 2.000 | - | - | 2.902 | - | - | - | - | - | 2.902 |
| TWS Fielding | - | - | 2.000 | - | - | 3.636 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *2.000* | - | - | *30.194* | - | - | *55.538* | - | - | *49.887* | - | - | - | - | - | *49.887* |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS) | Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Flyaway Cost* | - | - | *2.000* | - | - | *30.194* | - | - | *55.538* | - | - | *49.887* | - | - | - | - | - | *49.887* |
| **Gross/Weapon System Cost** | - | - | 2.000 | 145.163 | 208 | 30.194 | 11.667 | 4,760 | 55.536 | 10.483 | 4,759 | 49.887 | - | - | - | 10.483 | 4,759 | 49.887 |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 166 | 3,808 | 3,807 | - | 3,807 |
| | Total Obligation Authority | 24.155 | 44.345 | 39.907 | - | 39.907 |
| ANG | Quantity | 42 | 952 | 952 | - | 952 |
| | Total Obligation Authority | 6.039 | 11.191 | 9.980 | - | 9.980 |
| **Total: Secondary Distribution** | **Quantity** | **208** | **4,760** | **4,759** | **-** | **4,759** |
| | **Total Obligation Authority** | **30.194** | **55.536** | **49.887** | **-** | **49.887** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS) | Item Number / Title [DODIC]: K22002 / FWS-INDIVIDUAL |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FWS - I Hardware (Test Assets) | | 2016 | BAE Systems / Nashua, NH | C / IDIQ | ACC-APG | Aug 2016 | Feb 2017 | 104 | 66.861 | Y | | |
| FWS - I Hardware (Test Assets) | | 2016 | DRS,RSTA, Inc. / Dallas, TX | C / IDIQ | ACC-APG | Nov 2016 | May 2017 | 104 | 66.681 | Y | | |
| FWS - I Hardware (LRIP Assets) | | 2017 | BAE Systems / Nashua, NH | C / IDIQ | ACC-APG | Jul 2017 | Jun 2018 | 2,380 | 7.500 | Y | | |
| FWS - I Hardware (LRIP Assets) | | 2017 | DRS,RSTA, Inc. / Dallas, TX | C / IDIQ | ACC-APG | Jul 2017 | Jun 2018 | 2,380 | 7.500 | Y | | |
| FWS - I Hardware (FRP Assets)(†) | | 2018 | TBS / TBD | C / IDIQ | ACC-APG | May 2018 | Nov 2018 | 4,759 | 6.190 | Y | | |

(†) indicates the presence of a P-21

**Remarks:**
Note: The FY16 unit cost is high due to procurement of Qualification systems. Each delivery order made under these contracts will be competed among the two (2) manufacturers on the basis of best cost, available schedule, and performance. Therefore, a determination of the quantity per manufacturer to be awarded to each will be made after reviewing this information at the time of each delivery order. (Unit Costs are weighted averages).

| Exhibit P-21, Production Schedule: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS) | **Item Number / Title [DODIC]:** K22002 / FWS-INDIVIDUAL |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| FWS - I Hardware (FRP Assets) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2018 | ARMY | 4,759 | 0 | 4,759 | | | | | | | | | | | | | | | | | | | | | | | | | 4,759 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS) | **Item Number / Title [DODIC]:** K22002 / FWS-INDIVIDUAL |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| FWS - I Hardware (FRP Assets) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2018 | ARMY | 4,759 | 0 | 4,759 | | | | | | | | A - | - | - | - | - | - | 395 | 395 | 395 | 420 | 430 | 430 | 454 | 460 | 460 | 460 | 460 | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 86 | **P-1 Line Item Number / Title:**<br>K22001 / FAMILY OF WEAPON SIGHTS (FWS) | **Item Number / Title [DODIC]:**<br>K22002 / FWS-INDIVIDUAL |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | TBS - TBD | 10 | 580 | 1,200 | 2 | 8 | 3 | 11 | 2 | 8 | 3 | 11 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS) | **Item Number / Title [DODIC]:** K22003 / FWS-CREW SERVED |
| **ID Code** (A=Service Ready, B=Not Service Ready) : B | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 1.033 | - | 1.033 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 1.033 | - | 1.033 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **1.033** | **-** | **1.033** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Project Management Support | - | - | - | - | - | - | - | - | - | - | - | 1.033 | - | - | - | - | - | 1.033 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *1.033* | - | - | - | - | - | *1.033* |
| *Subtotal: Flyaway Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***1.033*** | **-** | **-** | **-** | **-** | **-** | ***1.033*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **1.033** | **-** | **-** | **-** | **-** | **-** | **1.033** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | - | 1.033 | - | 1.033 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **-** | **1.033** | **-** | **1.033** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K22001 / FAMILY OF WEAPON SIGHTS (FWS) | Item Number / Title [DODIC]: K22004 / FWS-SNIPER |
| ID Code (A=Service Ready, B=Not Service Ready) : B | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 50 | - | 50 |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 8.185 | - | 8.185 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 8.185 | - | 8.185 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **8.185** | **-** | **8.185** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 163.700 | - | 163.700 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| FWS-S Hardware Qualification Systems(†) | - | - | - | - | - | - | - | - | - | 18.940 | 50 | 0.947 | - | - | - | 18.940 | 50 | 0.947 |
| Program Management Support | - | - | - | - | - | - | - | - | - | - | - | 0.873 | - | - | - | - | - | 0.873 |
| Government Engineering Support | - | - | - | - | - | - | - | - | - | - | - | 0.197 | - | - | - | - | - | 0.197 |
| Fielding | - | - | - | - | - | - | - | - | - | - | - | 0.009 | - | - | - | - | - | 0.009 |
| Engineering Change Orders | - | - | - | - | - | - | - | - | - | - | - | 2.200 | - | - | - | - | - | 2.200 |
| Testing | - | - | - | - | - | - | - | - | - | - | - | 0.123 | - | - | - | - | - | 0.123 |
| Ancillary Support | - | - | - | - | - | - | - | - | - | - | - | 0.453 | - | - | - | - | - | 0.453 |
| Documentation | - | - | - | - | - | - | - | - | - | - | - | 2.974 | - | - | - | - | - | 2.974 |
| Initial Spares | - | - | - | - | - | - | - | - | - | - | - | 0.341 | - | - | - | - | - | 0.341 |
| Test Measurement Diagnostic Equipment (TMDE) | - | - | - | - | - | - | - | - | - | - | - | 0.068 | - | - | - | - | - | 0.068 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *8.185* | - | - | - | - | - | *8.185* |
| *Subtotal: Flyaway Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***8.185*** | **-** | **-** | **-** | **-** | **-** | ***8.185*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **163.700** | **50** | **8.185** | **-** | **-** | **-** | **163.700** | **50** | **8.185** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS) | **Item Number / Title [DODIC]:** K22004 / FWS-SNIPER |
| **ID Code** (A=Service Ready, B=Not Service Ready) : B | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | 41 | - | 41 |
| | Total Obligation Authority | - | - | 6.712 | - | 6.712 |
| ANG | Quantity | - | - | 9 | - | 9 |
| | Total Obligation Authority | - | - | 1.473 | - | 1.473 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **50** | **-** | **50** |
| | **Total Obligation Authority** | **-** | **-** | **8.185** | **-** | **8.185** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K22001 / FAMILY OF WEAPON SIGHTS (FWS) | **Item Number / Title [DODIC]:** K22004 / FWS-SNIPER |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FWS-S Hardware Qualification Systems | | 2018 | N2 Imaging Systems / Irvine, CA | C / FFP | ACC APG | May 2018 | Sep 2018 | 50 | 18.940 | Y | | |

**Remarks:**
Note: The unit cost in FY18 are high as these are production qualification systems.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** AD3200 / Artillery Accuracy Equip |

| | | |
|---|---|---|
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 30 | 56 | 57 | - | - | - | - | - | - | - | - | 143 |
| Gross/Weapon System Cost *($ in Millions)* | 249.623 | 3.338 | 4.187 | 2.129 | - | 2.129 | - | - | - | - | - | 259.277 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 249.623 | 3.338 | 4.187 | 2.129 | - | 2.129 | - | - | - | - | - | 259.277 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **249.623** | **3.338** | **4.187** | **2.129** | **-** | **2.129** | **-** | **-** | **-** | **-** | **-** | **259.277** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 8,320.767 | 59.607 | 73.456 | - | - | - | - | - | - | - | - | 1,813.126 |

## Description:

The Improved Position and Azimuth Determining System (IPADS) provided common inertial survey control for all U.S. Army and Marine Corps Field Artillery, Mortar, Artillery Meteorological and Radar systems. The IPADS, enhanced with the Global Positioning System (GPS) (IPADS-G), addresses deficiencies of the fire support community by providing the ability to maintain the current accuracy of the IPADS without stopping for zero velocity updates; therefore, increasing artillery timeliness, availability of fires, lethality, survivability, and force protection on extended convoys or artillery missions. The IPADS-G can be aided by an internal GPS receiver; however, it must also be capable of operating in an inertial fashion independently of GPS aiding.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 28 | 18 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1.669 | 1.322 | 1.055 | - | 1.055 | - | - | - | - |
| ANG | Quantity | 28 | 39 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1.669 | 2.865 | 1.074 | - | 1.074 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **56** | **57** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **3.338** | **4.187** | **2.129** | **-** | **2.129** | **-** | **-** | **-** | **-** |

**Justification:**

FY 2018 Base procurement funds in the amount of $2.129 million supports the fielding and Modification Work Order (MWO) of the IPADS-G Control and Display Unit - Replacement (CDU-R). The CDU-R is a hardware refresh effort to address obsolescence of electronic components. The requested funding supports the fielding of the CDU-R, including essential fielding costs such as engineering support, shipping to and from the contractor location, publications, software updates, and new equipment training. The CDU-R enhances capability for common survey enabling safe, accurate, and lethal fires. The requested funding will also be used to support the Simplified User Interface (SUI) software update and implementation. This software update is being executed to provide a simplified user interface to the IPADS-G framework so that a non-surveyor can easily and successfully operate the IPADS-G with CDU-R.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>AD3200 / Artillery Accuracy Equip | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** K27900 / Profiler |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 202.581 | 4.057 | - | - | - | - | - | - | - | - | - | 206.638 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 202.581 | 4.057 | - | - | - | - | - | - | - | - | - | 206.638 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **202.581** | **4.057** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **206.638** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Profiler Virtual Module (PVM) provides meteorological (MET) data that includes wind speed, wind direction, temperature, barometric pressure, and humidity information required for use in the Advanced Field Artillery Tactical Data System (AFATDS). The information is necessary for precise targeting and terminal guidance to Field Artillery assets. PVM improves accuracy of predictive fires solutions and allows for first round effects on target and reduces the risk of fratricide. This capability increases the lethality of indirect fire systems such as the rocket launchers, self-propelled or towed howitzers, and mortars.

Procurement support for modifications Profiler Virtual Module (PVM) will continue in the Mod-In-Service Profiler funding line (SSN K27910).

**Justification:**

There is no FY 2018 Base procurement funding request.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act(P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |

| | | |
|---|---|---|
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0203759A, 0604805A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 2,621 | 3,204 | 10,687 | 15,920 | - | 15,920 | 8,753 | 18,959 | 17,727 | 11,310 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 441.034 | 137.457 | 227.573 | 282.549 | - | 282.549 | 176.358 | 321.963 | 304.399 | 220.095 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 441.034 | 137.457 | 227.573 | 282.549 | - | 282.549 | 176.358 | 321.963 | 304.399 | 220.095 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **441.034** | **137.457** | **227.573** | **282.549** | **-** | **282.549** | **176.358** | **321.963** | **304.399** | **220.095** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 168.269 | 42.902 | 21.294 | 17.748 | - | 17.748 | 20.148 | 16.982 | 17.171 | 19.460 | Continuing | Continuing |

## Description:

Joint Battle Command - Platform (JBC-P) is the cornerstone of Joint Forces' Command and Control (C2), Situational Awareness (SA), and Communications. JBC-P provides secure Blue Force Tracking (BFT) capability at the Platform and Command Post levels, and continuous near-real-time identification of friendly locations, reported enemy and hazardous locations populating the tactical Common Operating Picture (COP). JBC-P enables Joint, Net-Centric C2/Battle Command by seamlessly passing/sharing relevant information vertically and horizontally, within all tactical levels of command and control. JBC-P is designed to be used on L-Band Satellite Networks and newer terrestrial radios (HMS, MNVR).

The JBC-P program fields hardware (vehicle platform computer systems, satellite transceivers, encryption devices, and ancillary equipment), and software capabilities for the full spectrum of military operations. The Army is preparing to accelerate the fielding of the newest generation of JBC-P computing hardware in order to address an significant cyber vulnerability. JBC-P will continue to leverage the Army's previous equipment investments by reutilizing satellite transceivers and encryption devices when replacing JV-5 and Force XXI Battle Command Brigade and Below (FBCB2) computer hardware.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 3,204 | 6,198 | 9,177 | - | 9,177 | 5,108 | 10,992 | 10,271 | 6,560 |
| | Total Obligation Authority | 137.457 | 131.992 | 163.878 | - | 163.878 | 102.288 | 186.739 | 176.551 | 127.655 |
| ANG | Quantity | - | 3,206 | 4,781 | - | 4,781 | 2,626 | 5,691 | 5,319 | 3,393 |
| | Total Obligation Authority | - | 68.272 | 84.765 | - | 84.765 | 52.907 | 96.589 | 91.320 | 66.029 |
| AR | Quantity | - | 1,283 | 1,962 | - | 1,962 | 1,019 | 2,276 | 2,137 | 1,357 |
| | Total Obligation Authority | - | 27.309 | 33.906 | - | 33.906 | 21.163 | 38.635 | 36.528 | 26.411 |
| **Total: Secondary Distribution** | **Quantity** | **3,204** | **10,687** | **15,920** | **-** | **15,920** | **8,753** | **18,959** | **17,727** | **11,310** |
| | **Total Obligation Authority** | **137.457** | **227.573** | **282.549** | **-** | **282.549** | **176.358** | **321.963** | **304.399** | **220.095** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: 0203759A, 0604805A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | P-5a, P-21 | A | | 2,621 / 441.034 | 3,204 / 137.457 | 10,687 / 227.573 | 15,920 / 282.549 | - / - | 15,920 / 282.549 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **2,621 / 441.034** | **3,204 / 137.457** | **10,687 / 227.573** | **15,920 / 282.549** | **- / -** | **15,920 / 282.549** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
Fiscal Year 2018 Base Procurement dollars in the amount of $282.549 million supports the procurement of 14,675 vehicle platform computer systems, 1,245 Command Post systems, satellite transceivers, encryption devices, ancillary equipment, program management support, training, fielding, publications, support equipment, and Post Deployment Software and Support (PDSS).

Adjustments have been made to the Prior Years in both funding and quantities, effectively driving the Weapon System Unit Cost of JBC-P down.

In FY17, the Army began accelerating fielding of modernized JBC-P hardware and software to get the Army on a common baseline. Army Forces Command (FORSCOM) identified this as a top priority, and Army G3/5/7 has approved their request.

Accelerating JBC-P fielding will allow the Army to retire older versions of legacy system Force XXI Battle Command Brigade and Below (FBCB2) and Joint Capabilities Release (JCR) hardware and software, which will reduce interoperability issues and maintenance costs of older hardware and software. As newer hardware and software are fielded, the overall cyber resilience of the system will be improved and older, less resilient systems will be retired.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | **Item Number / Title [DODIC]:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 2,621 | 3,204 | 10,687 | 15,920 | - | 15,920 |
| Gross/Weapon System Cost *($ in Millions)* | 441.034 | 137.457 | 227.573 | 282.549 | - | 282.549 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 441.034 | 137.457 | 227.573 | 282.549 | - | 282.549 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **441.034** | **137.457** | **227.573** | **282.549** | **-** | **282.549** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 168.269 | 42.902 | 21.294 | 17.748 | - | 17.748 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| JBC-P Veh Computer; LIN C05036(†) | 13.266 | 4,405 | 58.437 | 13.266 | 3,204 | 42.504 | 13.266 | 7,460 | 98.964 | 13.266 | 11,112 | 147.412 | - | - | - | 13.266 | 11,112 | 147.412 |
| JBC-P Cmd Post; LIN C05037(†) | - | - | - | - | - | - | 13.266 | 449 | 5.956 | 13.266 | 669 | 8.875 | - | - | - | 13.266 | 669 | 8.875 |
| JBC-P Log Mobile; LIN C05055(†) | - | - | - | - | - | - | 13.266 | 2,392 | 31.732 | 13.266 | 3,563 | 47.267 | - | - | - | 13.266 | 3,563 | 47.267 |
| JBC-P Log Cmd Post; LIN C05054(†) | - | - | - | - | - | - | 13.266 | 386 | 5.121 | 13.266 | 576 | 7.641 | - | - | - | 13.266 | 576 | 7.641 |
| Ancillary HW / IKs | - | - | 15.898 | - | - | 11.925 | - | - | - | - | - | - | - | - | - | - | - | - |
| System Engineering (MFoCS & Transceiver Services) | - | - | 28.528 | - | - | 3.660 | - | - | 5.881 | - | - | 5.000 | - | - | - | - | - | 5.000 |
| Engineering Changes (Geospatial) | - | - | - | - | - | 0.500 | - | - | 3.665 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *102.863* | - | - | *58.589* | - | - | *151.320* | - | - | *216.195* | - | - | - | - | - | *216.195* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Non-Recurring Eng (ABCT) | - | - | 12.177 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | *12.177* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***115.040*** | **-** | **-** | ***58.589*** | **-** | **-** | ***151.320*** | **-** | **-** | ***216.195*** | **-** | **-** | **-** | **-** | **-** | ***216.195*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| JBC-P Hardware | - | - | - | 8.000 | 2,295 | 18.360 | 13.266 | 1,707 | 22.645 | 13.266 | 632 | 8.384 | - | - | - | 13.266 | 632 | 8.384 |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | *18.360* | - | - | *22.645* | - | - | *8.384* | - | - | - | - | - | *8.384* |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | ***18.360*** | **-** | **-** | ***22.645*** | **-** | **-** | ***8.384*** | **-** | **-** | **-** | **-** | **-** | ***8.384*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 41.613 | - | - | 20.241 | - | - | 19.444 | - | - | 20.500 | - | - | - | - | - | 20.500 |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | ***41.613*** | **-** | **-** | ***20.241*** | **-** | **-** | ***19.444*** | **-** | **-** | ***20.500*** | **-** | **-** | **-** | **-** | **-** | ***20.500*** |
| Support - Industrial Facilities Cost | | | | | | | | | | | | | | | | | | |
| Equipment Acquisition or Modernization | - | - | 147.908 | - | - | 11.744 | - | - | 10.094 | - | - | 11.000 | - | - | - | - | - | 11.000 |
| *Subtotal: Support - Industrial Facilities Cost* | **-** | **-** | ***147.908*** | **-** | **-** | ***11.744*** | **-** | **-** | ***10.094*** | **-** | **-** | ***11.000*** | **-** | **-** | **-** | **-** | **-** | ***11.000*** |
| Support - Initial Spares and Repair Parts Cost | | | | | | | | | | | | | | | | | | |
| Initial Spares and Repair Parts | - | - | 0.520 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - Initial Spares and Repair Parts Cost* | **-** | **-** | ***0.520*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Peculiar Support Equipment Cost | | | | | | | | | | | | | | | | | | |
| Support and Handling Equipment | - | - | 8.718 | - | - | 0.723 | - | - | 1.210 | - | - | 1.505 | - | - | - | - | - | 1.505 |
| *Subtotal: Support - Peculiar Support Equipment Cost* | **-** | **-** | ***8.718*** | **-** | **-** | ***0.723*** | **-** | **-** | ***1.210*** | **-** | **-** | ***1.505*** | **-** | **-** | **-** | **-** | **-** | ***1.505*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 53.202 | - | - | 8.361 | - | - | 9.225 | - | - | 9.225 | - | - | - | - | - | 9.225 |
| Contractor Management | - | - | 31.148 | - | - | 6.391 | - | - | 4.045 | - | - | 4.045 | - | - | - | - | - | 4.045 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***84.350*** | **-** | **-** | ***14.752*** | **-** | **-** | ***13.270*** | **-** | **-** | ***13.270*** | **-** | **-** | **-** | **-** | **-** | ***13.270*** |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | 14.874 | - | - | 9.035 | - | - | 5.246 | - | - | 4.500 | - | - | - | - | - | 4.500 |
| *Subtotal: Support - System Engineering Cost* | **-** | **-** | ***14.874*** | **-** | **-** | ***9.035*** | **-** | **-** | ***5.246*** | **-** | **-** | ***4.500*** | **-** | **-** | **-** | **-** | **-** | ***4.500*** |
| Support - System Test and Evaluation Cost | | | | | | | | | | | | | | | | | | |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | **Item Number / Title [DODIC]:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : A | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Test and Evaluation Support | - | - | 15.696 | - | - | 0.158 | - | - | 0.608 | - | - | 3.700 | - | - | - | - | - | 3.700 |
| *Subtotal: Support - System Test and Evaluation Cost* | **-** | **-** | ***15.696*** | **-** | **-** | ***0.158*** | **-** | **-** | ***0.608*** | **-** | **-** | ***3.700*** | **-** | **-** | **-** | **-** | **-** | ***3.700*** |
| Support - Training Cost | | | | | | | | | | | | | | | | | | |
| Equipment | - | - | 12.315 | - | - | 3.855 | - | - | 3.737 | - | - | 3.495 | - | - | - | - | - | 3.495 |
| *Subtotal: Support - Training Cost* | **-** | **-** | ***12.315*** | **-** | **-** | ***3.855*** | **-** | **-** | ***3.737*** | **-** | **-** | ***3.495*** | **-** | **-** | **-** | **-** | **-** | ***3.495*** |
| **Gross/Weapon System Cost** | **168.269** | **2,621** | **441.034** | **42.902** | **3,204** | **137.457** | **21.294** | **10,687** | **227.573** | **17.748** | **15,920** | **282.549** | **-** | **-** | **-** | **17.748** | **15,920** | **282.549** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 3,204 | 6,198 | 9,177 | - | 9,177 |
| | Total Obligation Authority | 137.457 | 131.992 | 163.878 | - | 163.878 |
| ANG | Quantity | - | 3,206 | 4,781 | - | 4,781 |
| | Total Obligation Authority | - | 68.272 | 84.765 | - | 84.765 |
| AR | Quantity | - | 1,283 | 1,962 | - | 1,962 |
| | Total Obligation Authority | - | 27.309 | 33.906 | - | 33.906 |
| **Total: Secondary Distribution** | **Quantity** | **3,204** | **10,687** | **15,920** | **-** | **15,920** |
| | **Total Obligation Authority** | **137.457** | **227.573** | **282.549** | **-** | **282.549** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | Item Number / Title [DODIC]: W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JBC-P Veh Computer; LIN C05036(†) | | 2015 | DRS Tactical / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Nov 2014 | May 2015 | 996 | 13.270 | Y | | |
| JBC-P Veh Computer; LIN C05036(†) | | 2016 | DRS Tactical / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Nov 2015 | May 2016 | 3,204 | 13.270 | Y | | |
| JBC-P Veh Computer; LIN C05036(†) | | 2017 | DRS Tactical / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Dec 2016 | Jun 2017 | 7,460 | 13.270 | Y | | |
| JBC-P Veh Computer; LIN C05036(†) | | 2018 | DRS Tactical - Melbourne, FL / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Nov 2017 | May 2018 | 11,112 | 13.270 | Y | | |
| JBC-P Cmd Post; LIN C05037 | | 2017 | DRS Tactical / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Dec 2016 | Jun 2017 | 449 | 13.270 | Y | | |
| JBC-P Cmd Post; LIN C05037 | | 2018 | DRS Tactical - Melbourne, FL / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Nov 2017 | May 2018 | 669 | 13.270 | Y | | |
| JBC-P Log Mobile; LIN C05055(†) | | 2017 | DRS Tactical / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Dec 2016 | Jun 2017 | 2,392 | 13.270 | Y | | |
| JBC-P Log Mobile; LIN C05055(†) | | 2018 | DRS Tactical - Melbourne, FL / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Nov 2017 | May 2018 | 3,563 | 13.270 | Y | | |
| JBC-P Log Cmd Post; LIN C05054 | | 2017 | DRS Tactical / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Dec 2016 | Jun 2017 | 386 | 13.270 | Y | | |
| JBC-P Log Cmd Post; LIN C05054 | | 2018 | DRS Tactical - Melbourne, FL / Melbourne, FL | C / FFP | Army Contracting Cmd, APG, MD | Nov 2017 | May 2018 | 576 | 13.270 | Y | | |

(†) indicates the presence of a P-21

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | **Item Number / Title [DODIC]:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |

| Cost Elements (Units in Thousands) | | | | | | | Fiscal Year 2015 | | | | | | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2015 | | | | | | | | | | | | Calendar Year 2016 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2014 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| JBC-P Veh Computer; LIN C05036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 3409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | .996 | .000 | .996 | | A - | - | - | - | - | - | .083 | .083 | .083 | .083 | .083 | .083 | .083 | .083 | .083 | .083 | .083 | .083 | | | | | | .000 |
| | 1 | 2016 | ARMY | 3.204 | .000 | 3.204 | | | | | | | | | | | | | | A - | - | - | - | - | - | .267 | .267 | .267 | .267 | .267 | 1.869 |
| | 1 | 2017 | ARMY | 7.460 | .000 | 7.460 | | | | | | | | | | | | | | | | | | | | | | | | | 7.460 |
| | 2 | 2018 | ARMY | 11.112 | .000 | 11.112 | | | | | | | | | | | | | | | | | | | | | | | | | 11.112 |
| JBC-P Log Mobile; LIN C05055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2017 | ARMY | 2.392 | .000 | 2.392 | | | | | | | | | | | | | | | | | | | | | | | | | 2.392 |
| | 4 | 2018 | ARMY | 3.563 | .000 | 3.563 | | | | | | | | | | | | | | | | | | | | | | | | | 3.563 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | **Item Number / Title [DODIC]:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |

| Cost Elements (Units in Thousands) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| JBC-P Veh Computer; LIN C05036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 3409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | .996 | .996 | .000 | | | | | | | | | | | | | | | | | | | | | | | | | .000 |
| | 1 | 2016 | ARMY | 3.204 | 1.335 | 1.869 | .267 | .267 | .267 | .267 | .267 | .267 | .267 | | | | | | | | | | | | | | | | | | .000 |
| | 1 | 2017 | ARMY | 7.460 | .000 | 7.460 | | | A - | - | - | - | - | - | .236 | .236 | .236 | .236 | .236 | .236 | .236 | .236 | .236 | .236 | .238 | .236 | | | | | 4.626 |
| | 2 | 2018 | ARMY | 11.112 | .000 | 11.112 | | | | | | | | | | | | | | A - | - | - | - | - | - | .273 | .273 | .273 | .273 | .273 | 9.747 |
| JBC-P Log Mobile; LIN C05055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2017 | ARMY | 2.392 | .000 | 2.392 | | | A - | - | - | - | - | - | .005 | .005 | .005 | .005 | .005 | .005 | .005 | .005 | .005 | .005 | .006 | .006 | | | | | 2.330 |
| | 4 | 2018 | ARMY | 3.563 | .000 | 3.563 | | | | | | | | | | | | | | A - | - | - | - | - | - | .166 | .166 | .166 | .166 | .166 | 2.733 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | **Item Number / Title [DODIC]:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |

| Cost Elements (Units in Thousands) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| JBC-P Veh Computer; LIN C05036 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 3409 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | .996 | .996 | .000 | | | | | | | | | | | | | | | | | | | | | | | | | .000 |
| | 1 | 2016 | ARMY | 3.204 | 3.204 | .000 | | | | | | | | | | | | | | | | | | | | | | | | | .000 |
| | 1 | 2017 | ARMY | 7.460 | 2.834 | 4.626 | | | | | | | | | | | | | | | | | | | | | | | | | 4.626 |
| | 2 | 2018 | ARMY | 11.112 | 1.365 | 9.747 | .273 | .273 | .273 | .273 | .273 | .273 | .273 | | | | | | | | | | | | | | | | | | 7.836 |
| JBC-P Log Mobile; LIN C05055 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2017 | ARMY | 2.392 | .062 | 2.330 | | | | | | | | | | | | | | | | | | | | | | | | | 2.330 |
| | 4 | 2018 | ARMY | 3.563 | .830 | 2.733 | .166 | .166 | .167 | .167 | .167 | .167 | .167 | | | | | | | | | | | | | | | | | | 1.566 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) | **Item Number / Title [DODIC]:** W61990 / JOINT BATTLE COMMAND - PLATFORM (JBC-P) |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | DRS Tactical - Melbourne, FL | 150 | 220 | 2,000 | 1 | 1 | 5 | 6 | 1 | 1 | 5 | 6 |
| 2 | DRS Tactical - Melbourne, FL - Melbourne, FL | 150 | 220 | 2,000 | 1 | 1 | 5 | 6 | 1 | 1 | 5 | 6 |
| 3 | DRS Tactical - Melbourne, FL | 150 | 220 | 2,000 | 1 | 1 | 5 | 6 | 1 | 1 | 5 | 6 |
| 4 | DRS Tactical - Melbourne, FL - Melbourne, FL | 150 | 220 | 2,000 | 1 | 1 | 5 | 6 | 1 | 1 | 5 | 6 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) |

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604710A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 50 | 150 | 234 | - | 234 | 200 | 423 | 517 | 513 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | - | 47.212 | 50.726 | 48.664 | - | 48.664 | 43.511 | 77.755 | 95.736 | 92.853 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 47.212 | 50.726 | 48.664 | - | 48.664 | 43.511 | 77.755 | 95.736 | 92.853 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **47.212** | **50.726** | **48.664** | **-** | **48.664** | **43.511** | **77.755** | **95.736** | **92.853** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 944.240 | 338.173 | 207.966 | - | 207.966 | 217.555 | 183.818 | 185.176 | 181.000 | Continuing | Continuing |

## Description:

The Joint Effects Targeting System (JETS) Target Locator/Designator System (TLDS) provides the individual dismounted observer an integrated, lightweight, modular capability to detect, identify, accurately locate targets in three dimensions; mark, and designate targets and provide accurate target location coordinates to a forward entry device for engagement with precision munitions. The JETS TLDS is an Army program with joint information (Air Force and Marine Corps).

JETS will support the Army's Fires Center of Excellence Fires sensor strategy to reduce the number of fires optical targeting systems to two configurations. JETS will satisfy the requirement for the dismounted precision targeting sensor for the individual observer.

The Army Acquisition Objective (AAO) for this program is 3,355.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 50 | 90 | 140 | - | 140 | 120 | 254 | 310 | 410 |
| | Total Obligation Authority | 47.212 | 30.356 | 29.053 | - | 29.053 | 25.981 | 46.653 | 57.442 | 73.061 |
| ANG | Quantity | - | 60 | 94 | - | 94 | 80 | 169 | 207 | 103 |
| | Total Obligation Authority | - | 20.370 | 19.611 | - | 19.611 | 17.530 | 31.102 | 38.294 | 19.792 |
| **Total: Secondary Distribution** | **Quantity** | **50** | **150** | **234** | **-** | **234** | **200** | **423** | **517** | **513** |
| | **Total Obligation Authority** | **47.212** | **50.726** | **48.664** | **-** | **48.664** | **43.511** | **77.755** | **95.736** | **92.853** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | P-5a, P-21 | B | | - / - | 50 / 47.212 | 150 / 50.726 | 234 / 48.664 | - / - | 234 / 48.664 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / -** | **50 / 47.212** | **150 / 50.726** | **234 / 48.664** | **- / -** | **234 / 48.664** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $48.664 million supports the procurement of 234 Joint Effects Targeting System (JETS). These systems will be fielded in accordance with the HQDA priority list.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | Item Number / Title [DODIC]: K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) |

**ID Code** (A=Service Ready, B=Not Service Ready) : B

**MDAP/MAIS Code:**

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 50 | 150 | 234 | - | 234 |
| Gross/Weapon System Cost *($ in Millions)* | - | 47.212 | 50.726 | 48.664 | - | 48.664 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 47.212 | 50.726 | 48.664 | - | 48.664 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **47.212** | **50.726** | **48.664** | **-** | **48.664** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 944.240 | 338.173 | 207.966 | - | 207.966 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Project Management | - | - | - | - | - | 1.119 | - | - | 2.247 | - | - | 2.292 | - | - | - | - | - | 2.292 |
| Joint Effects Targeting System(†) | - | - | - | 909.880 | 50 | 45.494 | 232.780 | 150 | 34.917 | 186.026 | 234 | 43.530 | - | - | - | 186.026 | 234 | 43.530 |
| Systems Engineering Support | - | - | - | - | - | 0.599 | - | - | 4.518 | - | - | 2.199 | - | - | - | - | - | 2.199 |
| Training | - | - | - | - | - | - | - | - | 5.973 | - | - | - | - | - | - | - | - | - |
| Fielding | - | - | - | - | - | - | - | - | 0.720 | - | - | 0.643 | - | - | - | - | - | 0.643 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | *47.212* | - | - | *48.375* | - | - | *48.664* | - | - | - | - | - | *48.664* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Initial Non-Recurring | - | - | - | - | - | - | - | - | 2.351 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | - | - | - | *2.351* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | ***47.212*** | **-** | **-** | ***50.726*** | **-** | **-** | ***48.664*** | **-** | **-** | **-** | **-** | **-** | ***48.664*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **944.240** | **50** | **47.212** | **338.173** | **150** | **50.726** | **207.966** | **234** | **48.664** | **-** | **-** | **-** | **207.966** | **234** | **48.664** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 50 | 90 | 140 | - | 140 |
| | Total Obligation Authority | 47.212 | 30.356 | 29.053 | - | 29.053 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | **Item Number / Title [DODIC]:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : B | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| ANG | Quantity | - | 60 | 94 | - | 94 |
| | Total Obligation Authority | - | 20.370 | 19.611 | - | 19.611 |
| **Total: Secondary Distribution** | **Quantity** | **50** | **150** | **234** | **-** | **234** |
| | **Total Obligation Authority** | **47.212** | **50.726** | **48.664** | **-** | **48.664** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | **Item Number / Title [DODIC]:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Joint Effects Targeting System(†) | | 2016 | DRS / Melbourne, FL | C / FFP | ACC APG | Sep 2016 | Sep 2017 | 50 | 909.880 | Y | | |
| Joint Effects Targeting System(†) | | 2017 | DRS / Melbourne, FL | C / FFP | ACC APG | Mar 2017 | Mar 2018 | 150 | 232.780 | Y | | |
| Joint Effects Targeting System(†) | | 2018 | DRS / Melbourne, FL | C / FFP | ACC-APG | Apr 2018 | Oct 2018 | 234 | 186.030 | Y | | |

(†) indicates the presence of a P-21

**Remarks:**
Joint Effects Targeting System (JETS) achieved Milestone (MS) C in May 2016 and awarded a five year Firm Fixed Price (FFP) / Indefinite Delivery, Indefinite Quantity (IDIQ) production contract (Sept 2016). Initial start-up costs increased unit costs for the first year, FY16.

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | **Item Number / Title [DODIC]:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Joint Effects Targeting System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 50 | 0 | 50 | | | | | | | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | 2 | 48 |
| | 1 | 2017 | ARMY | 150 | 0 | 150 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 150 |
| | 1 | 2018 | ARMY | 234 | 0 | 234 | | | | | | | | | | | | | | | | | | | | | | | | | 234 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | **Item Number / Title [DODIC]:** K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | |
| Joint Effects Targeting System | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2016 | ARMY | 50 | 2 | 48 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 150 | 0 | 150 | - | - | - | - | - | 10 | 10 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 | 15 | 15 | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 234 | 0 | 234 | | | | | | | A - | - | - | - | - | - | 15 | 15 | 15 | 15 | 15 | 29 | 25 | 25 | 20 | 20 | 20 | 20 | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 86 | **P-1 Line Item Number / Title:**<br>K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) | **Item Number / Title [DODIC]:**<br>K32101 / JOINT EFFECTS TARGETING SYSTEM (JETS) |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | DRS - Melbourne, FL | 5 | 40 | 50 | 3 | 11 | 12 | 23 | 3 | 5 | 12 | 17 |

**Remarks:**
JETS achieved MS C in May 2016 and awarded (Sept 2016) a five year Firm Fixed Price (FFP) / Indefinite Delivery, Indefinite Quantity (IDIQ) production contract to DRS Network & Imaging Systems.

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** KA3100 / Mod Of In-Svc Equip (LLDR) |

| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 661 | 60 | 74 | - | 17 | 17 | 49 | 25 | 116 | 216 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 123.209 | 22.314 | 28.058 | 5.198 | 3.974 | 9.172 | 29.247 | 46.212 | 40.271 | 65.307 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 123.209 | 22.314 | 28.058 | 5.198 | 3.974 | 9.172 | 29.247 | 46.212 | 40.271 | 65.307 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **123.209** | **22.314** | **28.058** | **5.198** | **3.974** | **9.172** | **29.247** | **46.212** | **40.271** | **65.307** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 186.398 | 371.900 | 379.162 | - | 233.765 | 539.529 | 596.878 | 1,848.480 | 347.164 | 302.347 | Continuing | Continuing |

## Description:

MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR, AN/PED-1 and AN/PED-1A) to incorporate target location improvements. The upgraded LLDR system is type classified as an AN/PED-1B (referred to as LLDR 2H). The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) guided and laser guided precision munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal night vision sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements, resulting in lower sustainment costs. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams.

The LLDR with target location improvements will support the Army's Fires Center of Excellence Fires sensor strategy to reduce the number of Fires optical targeting systems to two configurations. LLDR will continue to fill its role as a crew-served, dismounted precision targeting system and will in the future integrate with Fire Support vehicle mission equipment packages to also serve as the mounted Fires targeting system. Funding in this program supports upgrade of LLDR for increased target location accuracy to facilitate employment of currently fielded GPS guided Precision Munitions by dismounted fire support teams.

The Army Acquisition Objective (AAO) for this program is 2,700. Only 200 of the AAO were built in the 2H configuration, the remaining 2,500 require retrofit.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 36 | 44 | - | 17 | 17 | 29 | 25 | 70 | 130 |
| | Total Obligation Authority | 13.237 | 16.683 | 5.198 | 3.974 | 9.172 | 18.323 | 46.212 | 23.668 | 39.184 |
| ANG | Quantity | 24 | 30 | - | - | - | 20 | - | 46 | 86 |
| | Total Obligation Authority | 9.077 | 11.375 | - | - | - | 10.924 | - | 16.603 | 26.123 |
| **Total: Secondary Distribution** | **Quantity** | **60** | **74** | **-** | **17** | **17** | **49** | **25** | **116** | **216** |
| | **Total Obligation Authority** | **22.314** | **28.058** | **5.198** | **3.974** | **9.172** | **29.247** | **46.212** | **40.271** | **65.307** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>KA3100 / Mod Of In-Svc Equip (LLDR) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): A | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604710A |
| **Line Item MDAP/MAIS Code:** N/A | | |

**Justification:**
FY 2018 Base procurement dollars in the amount of $5.198 million supports the program management and engineering support to award a competitive contract for an improved LLDR 3.

FY 2018 OCO procurement dollars in the amount of $3.974 million supports the retrofit of 17 existing LLDR systems with target location improvement for the European Reassurance Initiative (ERI).

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>K99200 / Computer Ballistics: LHMBC XM32 |

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 1,108 | 345 | 497 | - | 497 | 552 | 528 | 120 | 175 | - | 3,325 |
| Gross/Weapon System Cost *($ in Millions)* | 107.912 | 14.732 | 5.924 | 8.117 | - | 8.117 | 9.000 | 8.600 | 7.990 | 7.700 | - | 169.975 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 107.912 | 14.732 | 5.924 | 8.117 | - | 8.117 | 9.000 | 8.600 | 7.990 | 7.700 | - | 169.975 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **107.912** | **14.732** | **5.924** | **8.117** | **-** | **8.117** | **9.000** | **8.600** | **7.990** | **7.700** | **-** | **169.975** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 13.296 | 17.171 | 16.332 | - | 16.332 | 16.304 | 16.288 | 66.583 | 44.000 | - | 51.120 |

## Description:

The M32A1 and M32A2 Lightweight Handheld Mortar Ballistic Computer (LHMBC) calculates ballistic solutions that give the mortar user data to aim the mortar weapon, set the charge, and serves as the Fire Direction Center for all mortar platforms. The M32A1 LHMBC communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS). The M32A2 communicates digitally on the newly fielded Soldier Radio Waveform (SRW) Fire Support Network. Both the M32A1 and M32A2 LHMBC versions provide firing computations for all calibers of mortars as well as digital messaging capability. The M32A1 LHMBC will utilize the Ruggedized Tactical Handheld Device (RTHD) platform and will be compatible with Common Operating Environment (COE) 1.0 compliance. The M32A2 LHMBC will utilize Nett Warrior (NW) Mobile/Handheld (M/HH) platform and will be compatible with COE 3.0 compliance.

**Justification:**

Lightweight Handheld Mortar Ballistic Computer (LHMBC) is a war reserve item used both in training and combat. FY 2018 request supports annual training and builds a war reserve inventory in accordance with Army procurement goals. FY 2018 Base procurement dollars in the amount of $8.117 million supports the procurement of 497 each M32A2 LHMBC Nett Warrior (NW) computers and Basic Issue Items (BII). The M32A2 LHMBC NW with COE Version 3.0 software is urgently needed to replace the obsolete M32 Ruggedized Personal Digital Assistance (RPDA) computers in the field. LHMBC eliminates the need of paper firing table, improves the accuracy of mortar ballistic calculation, and increases survivability of mortar crews by digitally connecting to the Fire Support network to receive fire missions and Fire Support Coordination Measures to conduct fratricide check.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>K99300 / Mortar Fire Control System |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 178 | 144 | 273 | 464 | 15 | 479 | 420 | 190 | 290 | 133 | - | 2,107 |
| Gross/Weapon System Cost *($ in Millions)* | 398.636 | 10.075 | 24.903 | 31.813 | 2.947 | 34.760 | 22.096 | 18.975 | 18.680 | 13.100 | - | 541.225 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 398.636 | 10.075 | 24.903 | 31.813 | 2.947 | 34.760 | 22.096 | 18.975 | 18.680 | 13.100 | - | 541.225 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **398.636** | **10.075** | **24.903** | **31.813** | **2.947** | **34.760** | **22.096** | **18.975** | **18.680** | **13.100** | **-** | **541.225** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,239.528 | 69.965 | 91.220 | 68.563 | 196.467 | 72.568 | 52.610 | 99.868 | 64.414 | 98.496 | - | 256.870 |

## Description:

The Mortar Fire Control System (MFCS) accurately determines weapon position and orientation, navigates, calculates ballistics, and communicates digitally on the Single Channel Ground and Airborne Radio System (SINCGARS) and the newly fielded Soldier Radio Waveform (SRW) fire support net. The MFCS improves the accuracy of the M120 towed mortar system from 138 meters Circular Error Probable (CEP) to 75 meters CEP allowing for first round fire for effect. MFCS increases survivability of mortar crews by eliminating the need for soldiers to dismount the vehicle to lay out aiming posts. MFCS also adds digital connectivity to the Fire Support network as well as connectivity to SINCGARS and Force XXI Battle Command Brigade and Below (FBCB2) situational awareness blue data. The MFCS consists of the M95/ M96 version that is used on mounted 120mm Mortars in Armored Brigade Combat Teams (ABCT) and the M150/M151 version used on the M120A1 120mm Towed Mortar that is fielded throughout all Infantry Brigade Combat Teams (IBCT). The Stryker Brigade Combat Teams (SBCT) utilize both the M95 and M151 systems. The M95 is used on the M1064A2/M1064A3 Mortar Carriers with the M121 Battalion Mortar System and the M1129A1 Stryker 120mm Mortar Carrier with the 120mm Recoiling Mortar System. The M96 is used on M577 Mortar Fire Direction Center (FDC) vehicle. The M95 and M96 are also being integrated onto the Advanced Multipurpose Vehicle (AMPV) Mortar Carrier and Mission Command vehicles, respectively. The M150 is used on the M120A1 120mm Towed Mortar that is mounted on the M1101 Trailer. The M151 is used on the M1097 High Mobility Multipurpose Wheeled Vehicle (HWMMV) that serves as the IBCT and SBCT Mortar FDCs. Both the M95 and M150 consist of five main components: 1) The Commander's Interface (CI) (M95) or Fire Control Computer (FCC) (M150) links the MFCS components together, communicates, and calculates the ballistic solutions. 2) The Tactical Advanced Land Inertial Navigator (TALIN) is the pointing device and position system that provides the weapon's position, pointing azimuth and elevation. 3) The Gunner's Display (GD) shows the gunner where to point the tube and displays the weapon's azimuth, elevation, and ballistic firing solution. 4) The Driver's Display (DD) (M95 only) provides a "steer-to" display to aid in navigation and emplacement of the vehicle, and 5) The Power Distribution Assembly/Enhanced Power Distribution Assembly filters vehicle power and acts as a circuit breaker isolating MFCS line replaceable units from power fluctuations and surges. The M96 and M151 each consist primarily of the CI (M96) or FCC (M151), installed in the FDC vehicle.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** K99300 / Mortar Fire Control System |

| ID Code (A=Service Ready, B=Not Service Ready): A | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | K99300 / Mortar Fire Control System | P-5a, P-21 | A | | 178 / 398.636 | 144 / 10.075 | 273 / 24.903 | 464 / 31.813 | 15 / 2.947 | 479 / 34.760 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **178 / 398.636** | **144 / 10.075** | **273 / 24.903** | **464 / 31.813** | **15 / 2.947** | **479 / 34.760** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
The Mortar Fire Control System (MFCS) is a war reserve item used both in training and combat. The FY 2018 request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals. FY 2018 Base procurement dollars in the amount of $31.813 million supports the procurement of 72 each M95 Stryker Fire Control Computer (FCC) replacements for Stryker Brigade Combat Teams, 180 each M95 and 30 each M96 Fire Direction Center (FDC) computer replacements for Armored Brigade Combat Teams (ABCT), 47 each M95 AMPV and nine each M96 AMPV, 108 each M150 and 18 each M151 Windows 10 Fire Control Computer with Installation Kit. These upgrades are urgently required for fielding to 23 Infantry Brigade Combat Teams (IBCTs), two Stryker Brigade Combat Teams (SBCT), and 10 Armor Brigade Combat Teams (ABCT) to retain their MFCS Authority to Operate (ATO) in accordance with Information Assurance requirements. In addition, without these upgrades and replacements, the MFCS within the IBCTs, ABCTs, and SBCTs will not be able to maintain interoperability with the Fire Support Network software in phase with the Army's Common Operating Environment (COE) requirements.

Army Acquisition Objective for M150 totals 700
Army Acquisition Objective for TALIN totals 700
Army Acquisition Objective for M151 totals 165

FY 2018 OCO procurement dollars in the amount of $2.974 million will procure 12 each M95 MFCS, and three each M96 MFCS for the establishment of on ABCT; $2.872 million is for the production to be consumed in support of Operation Inherent Resolve for ISIL, and $0.075 million supports the COCOM requirement for unit equipment sets to deter potential adversaries and support European Reassurance Initiative (ERI).

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K99300 / Mortar Fire Control System | Item Number / Title [DODIC]: K99300 / Mortar Fire Control System |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 178 | 144 | 273 | 464 | 15 | 479 |
| Gross/Weapon System Cost *($ in Millions)* | 398.636 | 10.075 | 24.903 | 31.813 | 2.947 | 34.760 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 398.636 | 10.075 | 24.903 | 31.813 | 2.947 | 34.760 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **398.636** | **10.075** | **24.903** | **31.813** | **2.947** | **34.760** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 2,239.528 | 69.965 | 91.220 | 68.563 | 196.467 | 72.568 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| M95 M1064 MFCS-M(†) | - | - | - | - | - | - | 216.924 | 14 | 3.037 | - | - | - | 216.924 | 12 | 2.603 | 216.924 | 12 | 2.603 |
| M95 M1064 Fire Control Computer(†) | - | - | - | - | - | - | 42.061 | 96 | 4.038 | 42.061 | 180 | 7.571 | - | - | - | 42.061 | 180 | 7.571 |
| M95 AMPV(†) | - | - | - | - | - | - | 216.924 | 39 | 8.460 | 216.924 | 47 | 10.195 | - | - | - | 216.924 | 47 | 10.195 |
| M95 Stryker Fire Control Computer(†) | - | - | - | 17.251 | 144 | 2.484 | 42.061 | 72 | 3.028 | 42.061 | 72 | 3.028 | - | - | - | 42.061 | 72 | 3.028 |
| M95 Stryker Fire Control Computer BII Sets | - | - | - | - | - | 0.900 | - | - | - | - | - | - | - | - | - | - | - | - |
| M96 M577 MFCS-M(†) | - | - | - | - | - | - | 70.571 | 3 | 0.212 | - | - | - | 70.571 | 3 | 0.212 | 70.571 | 3 | 0.212 |
| M96 M1064 Fire Control Computer(†) | - | - | - | - | - | - | 42.061 | 16 | 0.673 | 42.061 | 30 | 1.262 | - | - | - | 42.061 | 30 | 1.262 |
| M96 AMPV(†) | - | - | - | - | - | - | 70.571 | 6 | 0.423 | 70.571 | 9 | 0.635 | - | - | - | 70.571 | 9 | 0.635 |
| M151 Stryker FDC Kit(†) | - | - | - | - | - | - | 53.691 | 27 | 1.450 | - | - | - | - | - | - | - | - | - |
| MFCS-D (M150/M151) | 0.879 | 140 | 0.123 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| M150 Windows 10 Fire Control Computer(†) | - | - | - | - | - | - | - | - | - | 36.664 | 108 | 3.960 | - | - | - | 36.664 | 108 | 3.960 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K99300 / Mortar Fire Control System | Item Number / Title [DODIC]: K99300 / Mortar Fire Control System |
| ID Code (A=Service Ready, B=Not Service Ready) : A | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| M151 Windows 10 Fire Control Computer(†) | - | - | - | - | - | - | - | - | - | 36.664 | 18 | 0.660 | - | - | - | 36.664 | 18 | 0.660 |
| TALIN - Dependent of M150/M95 | 51.808 | 119 | 6.165 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *6.288* | - | - | *3.385* | - | - | *21.321* | - | - | *27.311* | - | - | *2.815* | - | - | *30.126* |
| ***Subtotal: Hardware Cost*** | **-** | **-** | ***6.288*** | **-** | **-** | ***3.385*** | **-** | **-** | ***21.321*** | **-** | **-** | ***27.311*** | **-** | **-** | ***2.815*** | **-** | **-** | ***30.126*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Software Support | - | - | 0.400 | - | - | 0.475 | - | - | 0.518 | - | - | 0.609 | - | - | - | - | - | 0.609 |
| *Subtotal: Recurring Cost* | - | - | *0.400* | - | - | *0.475* | - | - | *0.518* | - | - | *0.609* | - | - | - | - | - | *0.609* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Windows 10 Qualification | - | - | - | - | - | 2.718 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | *2.718* | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Subtotal: Software Cost*** | **-** | **-** | ***0.400*** | **-** | **-** | ***3.193*** | **-** | **-** | ***0.518*** | **-** | **-** | ***0.609*** | **-** | **-** | **-** | **-** | **-** | ***0.609*** |
| Logistics Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Government ILS | - | - | 0.572 | - | - | 0.430 | - | - | 0.485 | - | - | 0.492 | - | - | - | - | - | 0.492 |
| *Subtotal: Recurring Cost* | - | - | *0.572* | - | - | *0.430* | - | - | *0.485* | - | - | *0.492* | - | - | - | - | - | *0.492* |
| ***Subtotal: Logistics Cost*** | **-** | **-** | ***0.572*** | **-** | **-** | ***0.430*** | **-** | **-** | ***0.485*** | **-** | **-** | ***0.492*** | **-** | **-** | **-** | **-** | **-** | ***0.492*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 1.752 | - | - | 0.810 | - | - | 0.189 | - | - | 0.805 | - | - | 0.132 | - | - | 0.937 |
| ***Subtotal: Support - Fielding Cost*** | **-** | **-** | ***1.752*** | **-** | **-** | ***0.810*** | **-** | **-** | ***0.189*** | **-** | **-** | ***0.805*** | **-** | **-** | ***0.132*** | **-** | **-** | ***0.937*** |
| Support - Production Engineering Cost | | | | | | | | | | | | | | | | | | |
| Production Engineering | - | - | 389.623 | - | - | 2.257 | - | - | 2.390 | - | - | 2.596 | - | - | - | - | - | 2.596 |
| ***Subtotal: Support - Production Engineering Cost*** | **-** | **-** | ***389.623*** | **-** | **-** | ***2.257*** | **-** | **-** | ***2.390*** | **-** | **-** | ***2.596*** | **-** | **-** | **-** | **-** | **-** | ***2.596*** |
| **Gross/Weapon System Cost** | **2,239.528** | **178** | **398.636** | **69.965** | **144** | **10.075** | **91.220** | **273** | **24.903** | **68.563** | **464** | **31.813** | **196.467** | **15** | **2.947** | **72.568** | **479** | **34.760** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: K99300 / Mortar Fire Control System | Item Number / Title [DODIC]: K99300 / Mortar Fire Control System |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M95 M1064 MFCS-M | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 14 | 216.924 | Y | | |
| M95 M1064 MFCS-M | ✓ | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 12 | 216.924 | Y | | |
| M95 M1064 Fire Control Computer | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 96 | 42.061 | Y | | |
| M95 M1064 Fire Control Computer | | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 180 | 42.061 | Y | | |
| M95 AMPV(†) | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 39 | 216.924 | Y | | |
| M95 AMPV(†) | | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 47 | 216.924 | Y | | |
| M95 Stryker Fire Control Computer | | 2016 | DRS / Melbourne, FL | Option / FFP | Picatinny Arsenal, NJ | Jul 2016 | Jul 2017 | 144 | 17.251 | Y | | |
| M95 Stryker Fire Control Computer | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 72 | 42.061 | Y | | |
| M95 Stryker Fire Control Computer | | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 72 | 42.061 | Y | | |
| M96 M577 MFCS-M | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 3 | 70.571 | Y | | |
| M96 M577 MFCS-M | ✓ | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 3 | 70.571 | Y | | |
| M96 M1064 Fire Control Computer | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 16 | 42.061 | Y | | |
| M96 M1064 Fire Control Computer | | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 30 | 42.061 | Y | | |
| M96 AMPV | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 6 | 70.571 | Y | | |
| M96 AMPV | | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 9 | 70.571 | Y | | |
| M151 Stryker FDC Kit | | 2017 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2017 | Apr 2018 | 27 | 53.691 | Y | | |
| M150 Windows 10 Fire Control Computer | | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 108 | 36.664 | Y | | |
| M151 Windows 10 Fire Control Computer | | 2018 | EFW, Inc.. / Fort Worth, TX | Option / FFP | Picatinny Arsenal, NJ | Mar 2018 | Apr 2019 | 18 | 36.664 | Y | | |

(†) indicates the presence of a P-21

| Exhibit P-21, Production Schedule: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K99300 / Mortar Fire Control System | **Item Number / Title [DODIC]:** K99300 / Mortar Fire Control System |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2016 | | | | | | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Calendar Year 2016 | | | | | | | | | | | | Calendar Year 2017 | | | | | | | | | |
| COO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2015 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| M95 AMPV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 39 | 0 | 39 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 39 |
| | 1 | 2018 | ARMY | 47 | 0 | 47 | | | | | | | | | | | | | | | | | | | | | | | | | 47 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** K99300 / Mortar Fire Control System | **Item Number / Title [DODIC]:** K99300 / Mortar Fire Control System |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2018 | | | | | | | | | | | | Calendar Year 2019 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2017 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| M95 AMPV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2017 | ARMY | 39 | 0 | 39 | - | - | - | - | - | - | 28 | 11 | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2018 | ARMY | 47 | 0 | 47 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | 23 | | | | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 86 | **P-1 Line Item Number / Title:**<br>K99300 / Mortar Fire Control System | **Item Number / Title [DODIC]:**<br>K99300 / Mortar Fire Control System |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Month) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | EFW, Inc.. - Fort Worth, TX | 10 | 24 | 66 | 4 | 4 | 12 | 16 | 1 | 1 | 12 | 13 |

"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** BA5500 / Counterfire Radars |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604823A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 111 | 14 | 17 | 24 | - | 24 | 9 | 1 | - | - | - | 176 |
| Gross/Weapon System Cost *($ in Millions)* | 1,900.757 | 198.379 | 314.509 | 329.057 | - | 329.057 | 148.700 | 28.400 | 7.110 | 7.443 | - | 2,934.355 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,900.757 | 198.379 | 314.509 | 329.057 | - | 329.057 | 148.700 | 28.400 | 7.110 | 7.443 | - | 2,934.355 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,900.757** | **198.379** | **314.509** | **329.057** | **-** | **329.057** | **148.700** | **28.400** | **7.110** | **7.443** | **-** | **2,934.355** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 17,123.937 | 14,169.929 | 18,500.529 | 13,710.708 | - | 13,710.708 | 16,522.222 | 28,400.000 | - | - | - | 16,672.472 |

## Description:

The AN/TPQ-53 Counterfire Target Acquisition Radar System is a highly mobile radar set that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems with sufficient accuracy for first round fire for effect. It mitigates close combat radar coverage gaps by providing a 90 degree search sector (stare mode) as well as 360 degree coverage (rotating) and will replace the current AN/TPQ-36 and AN/TPQ-37 Firefinder Radars. The AN/TPQ-53 system interoperates with mission command systems (MCSs) to provide the maneuver commander increased counterfire radar flexibility. The AN/TPQ-53 is deployed as part of the Counter-Rocket, Artillery, Mortar (C-RAM) system of systems. It provides data to the Forward Area Air Defense Command and Control (FAAD C2) node for the sense and warn force protection capability. The AN/TPQ-53 is fielded to multiple Continental United States (CONUS) and Outside Continental United States (OCONUS) locations to include support to Operation Inherent Resolve (OIR).

Current force structure is:
- Two (2) radars per Active Component (AC) Armored Brigade Combat Team (ABCT)
- Two (2) radars per AC Infantry Brigade Combat Team (IBCT)
- Two (2) radars per AC Stryker Brigade Combat Team (SBCT)
- Two (2) radars per Army National Guard (ARNG) ABCT
- Two (2) radars per ARNG IBCT
- Two (2) radars per ARNG SBCT
- Two (2) radars per AC Field Artillery Brigade (FAB)
- Two (2) radars per ARNG FAB
- Two (2) radars per AC Division Artillery (DIVARTY)
- One (1) radar per Task Force

Army Acquisition Objective (AAO): 174

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 4 | 7 | 24 | - | 24 | 9 | 1 | - | - |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:**<br>BA5500 / Counterfire Radars | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604823A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total Obligation Authority | 56.680 | 122.200 | 329.057 | - | 329.057 | 148.700 | 28.400 | 7.110 | 7.443 |
| ANG | Quantity | 10 | 10 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 141.699 | 192.309 | - | - | - | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **14** | **17** | **24** | **-** | **24** | **9** | **1** | **-** | **-** |
| | **Total Obligation Authority** | **198.379** | **314.509** | **329.057** | **-** | **329.057** | **148.700** | **28.400** | **7.110** | **7.443** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv) | **P-1 Line Item Number / Title:** BA5500 / Counterfire Radars |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604823A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B05310 / ENHANCED AN/TPQ 36 | P-5a, P-21 | | | 111 / 1,900.757 | 14 / 198.379 | 17 / 314.509 | 24 / 329.057 | - / - | 24 / 329.057 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **111 / 1,900.757** | **14 / 198.379** | **17 / 314.509** | **24 / 329.057** | **- / -** | **24 / 329.057** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
The Fiscal Year (FY) 2018 procurement funding in the amount of $329.057 million supports the procurement of 24 AN/TPQ-53 radars and depot facilitization.

Current force structure is:
- Two (2) radars per Active Component (AC) Armored Brigade Combat Team (ABCT)
- Two (2) radars per AC Infantry Brigade Combat Team (IBCT)
- Two (2) radars per AC Stryker Brigade Combat Team (SBCT)
- Two (2) radars per Army National Guard (ARNG) ABCT
- Two (2) radars per ARNG IBCT
- Two (2) radars per ARNG SBCT
- Two (2) radars per AC Field Artillery Brigade (FAB)
- Two (2) radars per ARNG FAB
- Two (2) radars per AC Division Artillery (DIVARTY)
- One (1) radar per Task Force

Army Acquisition Objective (AAO) of 174 systems.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: BA5500 / Counterfire Radars | Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36 |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 111 | 14 | 17 | 24 | - | 24 |
| Gross/Weapon System Cost *($ in Millions)* | 1,900.757 | 198.379 | 314.509 | 329.057 | - | 329.057 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,900.757 | 198.379 | 314.509 | 329.057 | - | 329.057 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,900.757** | **198.379** | **314.509** | **329.057** | **-** | **329.057** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 17,123.937 | 14,169.929 | 18,500.529 | 13,710.708 | - | 13,710.708 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Hardware (AN/TPQ-53)(†) | 10,583.030 | 111 | 1,174.716 | 10,044.580 | 14 | 140.624 | 9,846.930 | 17 | 167.398 | 10,185.300 | 24 | 244.447 | - | - | - | 10,185.292 | 24 | 244.447 |
| Ancillary Equipment | - | - | 184.394 | - | - | 9.709 | - | - | 8.796 | - | - | 14.057 | - | - | - | - | - | 14.057 |
| *Subtotal: Recurring Cost* | - | - | *1,359.110* | - | - | *150.333* | - | - | *176.194* | - | - | *258.504* | - | - | - | - | - | *258.504* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Non-Recurring Engineering | - | - | 80.275 | - | - | 19.284 | - | - | 24.616 | - | - | 25.179 | - | - | - | - | - | 25.179 |
| Non-Recurring Production | - | - | 73.414 | - | - | - | - | - | 85.607 | - | - | - | - | - | - | - | - | - |
| Engineering Change Orders | - | - | 0.706 | - | - | 0.433 | - | - | 1.504 | - | - | 2.276 | - | - | - | - | - | 2.276 |
| Post Deployment Software Support | - | - | 8.701 | - | - | 5.112 | - | - | - | - | - | 3.414 | - | - | - | - | - | 3.414 |
| *Subtotal: Non Recurring Cost* | - | - | *163.096* | - | - | *24.829* | - | - | *111.727* | - | - | *30.869* | - | - | - | - | - | *30.869* |
| ***Subtotal: Flyaway Cost*** | **-** | **-** | ***1,522.206*** | **-** | **-** | ***175.162*** | **-** | **-** | ***287.921*** | **-** | **-** | ***289.373*** | **-** | **-** | **-** | **-** | **-** | ***289.373*** |
| Support Cost | | | | | | | | | | | | | | | | | | |
| Acceptance and Live Fire Testing | - | - | 31.847 | - | - | 0.870 | - | - | 2.850 | - | - | 1.800 | - | - | - | - | - | 1.800 |
| Integrated Logistics Support | - | - | 161.392 | - | - | 1.048 | - | - | 10.804 | - | - | 14.402 | - | - | - | - | - | 14.402 |
| Training Devices | - | - | 4.056 | - | - | 2.652 | - | - | - | - | - | 1.737 | - | - | - | - | - | 1.737 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BA5500 / Counterfire Radars | **Item Number / Title [DODIC]:** B05310 / ENHANCED AN/TPQ 36 |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Fielding | - | - | 39.384 | - | - | 4.379 | - | - | 1.658 | - | - | 3.521 | - | - | - | - | - | 3.521 |
| Program Management Support | - | - | 141.872 | - | - | 14.268 | - | - | 11.276 | - | - | 18.224 | - | - | - | - | - | 18.224 |
| *Subtotal: Support Cost* | ***-*** | ***-*** | ***378.551*** | ***-*** | ***-*** | ***23.217*** | ***-*** | ***-*** | ***26.588*** | ***-*** | ***-*** | ***39.684*** | ***-*** | ***-*** | ***-*** | ***-*** | ***-*** | ***39.684*** |
| **Gross/Weapon System Cost** | **17,123.937** | **111** | **1,900.757** | **14,169.929** | **14** | **198.379** | **18,500.529** | **17** | **314.509** | **13,710.708** | **24** | **329.057** | **-** | **-** | **-** | **13,710.708** | **24** | **329.057** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 4 | 7 | 24 | - | 24 |
| | Total Obligation Authority | 56.680 | 122.200 | 329.057 | - | 329.057 |
| ANG | Quantity | 10 | 10 | - | - | - |
| | Total Obligation Authority | 141.699 | 192.309 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **14** | **17** | **24** | **-** | **24** |
| | **Total Obligation Authority** | **198.379** | **314.509** | **329.057** | **-** | **329.057** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 86 | P-1 Line Item Number / Title: BA5500 / Counterfire Radars | Item Number / Title [DODIC]: B05310 / ENHANCED AN/TPQ 36 |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hardware (AN/TPQ-53)(†) | | 2015 | Lockheed Martin / Syracuse, NY. | SS / FPIF | CECOM | Mar 2017 | Mar 2019 | 7 | 10,044.580 | Y | | Feb 2015 |
| Hardware (AN/TPQ-53)(†) | | 2016 | Lockheed Martin / Syracuse, NY. | SS / FPIF | CECOM | Mar 2017 | Oct 2018 | 14 | 10,044.580 | Y | | Feb 2015 |
| Hardware (AN/TPQ-53)(†) | | 2017 | Lockheed Martin / Syracuse, NY. | SS / FPIF | CECOM | Mar 2017 | Jun 2019 | 17 | 9,846.930 | Y | | Feb 2015 |
| Hardware (AN/TPQ-53)(†) | | 2018 | Lockheed Martin / Syracuse, NY. | SS / FPIF | CECOM | Mar 2018 | Sep 2019 | 24 | 10,185.290 | Y | | Feb 2015 |

(†) indicates the presence of a P-21

**Remarks:**
Army Acquisition Objective (AAO) is 174 systems.

FY 2015 system buy was combined with FY 2016 and FY 2017 system buys to take advantage of price quantity breaks.
Delivery schedule shown is based on the schedule specified in the Full Rate Production contract.

| **Exhibit P-21, Production Schedule:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BA5500 / Counterfire Radars | **Item Number / Title [DODIC]:** B05310 / ENHANCED AN/TPQ 36 |

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2017 | | | | | | | | | | | | Fiscal Year 2018 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2017 | | | | | | | | | | | | Calendar Year 2018 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2016 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Hardware (AN/TPQ-53) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 7 | 0 | 7 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 |
| | 1 | 2016 | ARMY | 14 | 0 | 14 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| | 1 | 2017 | ARMY | 17 | 0 | 17 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 |
| | 1 | 2017 | FMS (‡) | 6 | 0 | 6 | | | | | | A - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 |
| | **1** | **2017** | **Total** | **23** | **0** | **23** | | | | | | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **23** |
| | 1 | 2018 | ARMY | 24 | 0 | 24 | | | | | | | | | | | | | | | | | | A - | - | - | - | - | - | - | 24 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

**Exhibit P-21, Production Schedule:** FY 2018 Army | **Date:** May 2017

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BA5500 / Counterfire Radars | **Item Number / Title [DODIC]:** B05310 / ENHANCED AN/TPQ 36

| Cost Elements (Units in Each) | | | | | | | Fiscal Year 2019 | | | | | | | | | | | | Fiscal Year 2020 | | | | | | | | | | | | BALANCE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Calendar Year 2019 | | | | | | | | | | | | Calendar Year 2020 | | | | | | | | | | | | |
| OCO | MFR # | FY | SERVICE | PROC QTY | ACCEPT PRIOR TO 1 OCT 2018 | BAL DUE AS OF 1 OCT | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |
| Hardware (AN/TPQ-53) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prior Years Deliveries: 104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2015 | ARMY | 7 | 0 | 7 | - | - | - | - | - | 1 | 3 | 3 | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2016 | ARMY | 14 | 0 | 14 | 2 | 2 | 2 | 3 | 3 | 2 | | | | | | | | | | | | | | | | | | | 0 |
| | 1 | 2017 | ARMY | 17 | 0 | 17 | - | - | - | - | - | - | - | - | 3 | 3 | 3 | 3 | 2 | 2 | 1 | | | | | | | | | | 0 |
| | 1 | 2017 | FMS (‡) | 6 | 0 | 6 | - | - | 1 | 1 | 2 | 2 | - | - | - | - | - | - | - | - | - | | | | | | | | | | 0 |
| | **1** | **2017** | **Total** | **23** | **0** | **23** | **-** | **-** | **1** | **1** | **2** | **2** | **-** | **-** | **3** | **3** | **3** | **3** | **2** | **2** | **1** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **0** |
| | 1 | 2018 | ARMY | 24 | 0 | 24 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | | 0 |
| | | | | | | | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | |

| Exhibit P-21, Production Schedule: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 86 | **P-1 Line Item Number / Title:** BA5500 / Counterfire Radars | **Item Number / Title [DODIC]:** B05310 / ENHANCED AN/TPQ 36 |

| MFR Ref # | Manufacturer Name - Location | Production Rates (Each / Year) | | | Procurement Leadtime (Months) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Initial | | | | Reorder | | | |
| | | MSR For 2018 | 1-8-5 For 2018 | MAX For 2018 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 | ALT Prior to Oct 1 | ALT After Oct 1 | Manufacturing PLT | Total After Oct 1 |
| 1 | Lockheed Martin - Syracuse, NY. | 12 | 24 | 48 | 0 | 6 | 19 | 25 | 0 | 6 | 18 | 24 |

**Remarks:**
Army Acquisition Objective (AAO) is 174 systems.FY 2015 system buy was combined with FY 2016 and FY 2017 system buys to take advantage of price quantity breaks.Delivery schedule shown is based on the schedule specified in the Full Rate Production contract.

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.
"A" in the Delivery Schedule indicates the Contract Award Date.
**Note:** Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** B28501 / Fire Support C2 Family |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0203726A, 0203728A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 961 | 2 | - | - | - | - | - | - | - | - | - | 963 |
| Gross/Weapon System Cost *($ in Millions)* | 503.515 | 1.238 | 8.660 | 8.700 | - | 8.700 | 14.736 | 22.629 | 16.236 | 8.621 | - | 584.335 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 503.515 | 1.238 | 8.660 | 8.700 | - | 8.700 | 14.736 | 22.629 | 16.236 | 8.621 | - | 584.335 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **503.515** | **1.238** | **8.660** | **8.700** | **-** | **8.700** | **14.736** | **22.629** | **16.236** | **8.621** | **-** | **584.335** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 523.949 | 619.000 | - | - | - | - | - | - | - | - | - | 606.786 |

## Description:

Fire Support Command and Control (FSC2) systems automate the planning and execution of fire support operations so that a suitable weapon or group of weapons adequately covers targets. Fire support is the effects of lethal and non-lethal weapons (fires) that directly support land, maritime, amphibious and special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objectives. FSC2 family consists of Advanced Field Artillery Tactical Data System (AFATDS), Joint Automated Deep Operations Coordination System (JADOCS), and Pocket-sized Forward Entry Device (PFED).

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint and Coalition targeting, coordination mission management software application. It links Command and Control (C2), Intelligence, and Air Operations information with execution systems using real time collaborative targeting managers, customized for each service or specific functional area. JADOCS is used to significantly enhance the Joint Force and Component Command's capability to simultaneously develop, coordinate and execute Dynamic and Time Sensitive targets and fire missions, as well as battle space coordination worldwide. JADOCS provides coordination and de-confliction of targeting information at all levels of command structure for the military. JADOCS is used by Air, Ground, Maritime, and Special Operations forces. It provides horizontal (across Services) as well as vertical (within Services) coordination of missions to ensure a common picture of targeting operational status across the entire joint force. As a software application, JADOCS can be configured and customized for each user and location.

The Advanced Field Artillery Tactical Data System (AFATDS) provides the Army, Navy, and Marine Corps automated fire support command, control and communications. AFATDS is used to plan, execute, and deliver lethal and non-lethal effects. AFATDS provides Joint/Coalition Situational Awareness for fires execution and mission management. The system interoperates and integrates with over 80 different battlefield systems, including Navy and Air Force command and control weapons systems. As a member of the Artillery System Cooperation Agreement (ASCA), AFATDS is interoperable with coalition partner fire support systems. AFATDS automates the planning, coordination, and control of all fire support assets (field artillery, mortars, close air support, naval gunfire, attack helicopters, offensive electronic warfare, fire support meteorological systems, forward observers, and fire support radars).

The Pocket-sized Forward Entry Device (PFED) (Inc I) is a handheld hardware device that enables rapid precision Sensor-to-Shooter and Surveillance capabilities. PFED is fully interoperable with AFATDS and current fire support systems. Pocket-sized Forward Entry Device (PFED) Increment II is a software application that operates on the Nett Warrior End User Device (EUD). It will provide the dismounted Forward Observer (FO) and Fire Support Teams (FISTs) the capability and functionality to accurately and rapidly locate ground targets and digitally process a Call For Fire. PFED Increment II answers the Mobile Handheld Computing Environment requirement that all handheld applications reside on the Nett Warrior EUD.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>B28501 / Fire Support C2 Family | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0203726A, 0203728A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1.238 | 7.023 | 7.014 | - | 7.014 | 14.736 | 22.629 | 16.236 | 8.621 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | 1.637 | 1.686 | - | 1.686 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **1.238** | **8.660** | **8.700** | **-** | **8.700** | **14.736** | **22.629** | **16.236** | **8.621** |

**Justification:**
FY18 Base procurement dollars in the amount of $1.722million will be used to continue fielding and training efforts for Joint Automated Deep Operations Coordination System (JADOCS) V2.0.

FY18 Base procurement dollars in the amount of $2.765 million will be used to complete fielding, integration and New Equipment Training (NET) of Advanced Field Artillery Tactical Data System (AFATDS) V6.8.x.

FY18 Base procurement dollars in the amount of $4.213 million funds procurement of fielding services, ancillary items required for initial fielding, and New Equipment Training (NET) support for Pocket-sized Forward Entry Device (PFED Increment II software. Ancillary equipment includes TACLINKs, cables, and hubs.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P. L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** AD5070 / AIR & MSL Defense Planning & Control Sys |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604741A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 5 | 6 | 186 | 14 | 1 | 15 | 2 | 1 | 14 | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 706.871 | 28.176 | 126.539 | 26.635 | 9.100 | 35.735 | 17.960 | 6.366 | 32.397 | - | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 706.871 | 28.176 | 126.539 | 26.635 | 9.100 | 35.735 | 17.960 | 6.366 | 32.397 | - | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **706.871** | **28.176** | **126.539** | **26.635** | **9.100** | **35.735** | **17.960** | **6.366** | **32.397** | **-** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 141,374.200 | 4,696.000 | 680.317 | 1,902.500 | 9,100.000 | 2,382.333 | 8,980.000 | 6,366.000 | 2,314.071 | - | Continuing | Continuing |

## Description:

The Air and Missile Defense Planning and Control System (AMDPCS) is an Army Objective Force System that provides integration of Air and Missile Defense (AMD) operations at all echelons. AMDPCS systems are deployed with Air Defense Artillery (ADA) Brigades (Bdes), Army Air Missile Defense Commands (AAMDCs), and Air Defense and Airspace Management (ADAM) Cells at the Brigade Combat Teams (BCTs), Multi-Functional Support Brigades, Corps and Divisions. AMDPCS systems also provide air defense capabilities to Homeland Defense systems. The fielding of ADAM Cells is essential in fulfilling the Army's Campaign Plan requirement. ADAM Cells provide the Commander at BCTs, Bdes and Divisions with air defense situational awareness and airspace management capabilities. They also provide the interoperability link with Joint, multinational and coalition forces. AMDPCS components are vital in the transformation of ADA units. AMDPCS provides these organizations with shelters, automated data processing equipment, tactical communications, standard vehicles and tactical power, and the two major software systems used in air defense force operations/engagement operations: The Air and Missile Defense Workstation (AMDWS) and the Air Defense System Integrator (ADSI). The AMDWS is a staff planning and battlespace situational awareness tool that provides commanders at all echelons with a common tactical and operational air picture. The AMDWS is being fielded to all AMDPCS units, including the ADA Bdes, the AAMDCs and the ADAM Cells, as well as to the Maneuver Air and Missile Defense Battalions and Batteries. AMDWS provides the Mission Command (MC) capabilities imbedded within the Warfighter Mission area. AMDWS is the Net-centric interface to MC for all components of the AMD force. AMDPCS also provides the ADA Brigades, AAMDCs and ADAM Cells with the ADSI, which is a communications data link processor and an additional display system. AMDWS and ADSIs are vital components of the ADAM Cells that are deployed in Afghanistan. AMDWS is a critical component in the integration and fielding of the Counter-Rocket, Artillery and Mortar (C-RAM) capability to Operating Bases in Afghanistan, Iraq and Egypt.

Approved Acquisition Objective (AAO) for AMDPCS shelter systems is 225. OPA OCO European Reassurance Initiatives (ERI) and Grow the Army (GTA) requirements are in addition to AAO.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 1 | 180 | 14 | 1 | 15 | 2 | 1 | 14 | - |
| | Total Obligation Authority | 6.170 | 89.379 | 26.635 | 9.100 | 35.735 | 17.960 | 6.366 | 32.397 | - |
| ANG | Quantity | 3 | 6 | - | - | - | - | - | - | - |
| | Total Obligation Authority | 13.110 | 37.160 | - | - | - | - | - | - | - |
| AR | Quantity | 2 | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 8.896 | - | - | - | - | - | - | - | - |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>AD5070 / AIR & MSL Defense Planning & Control Sys | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0604741A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Total: Secondary Distribution | Quantity | 6 | 186 | 14 | 1 | 15 | 2 | 1 | 14 | - |
| | Total Obligation Authority | 28.176 | 126.539 | 26.635 | 9.100 | 35.735 | 17.960 | 6.366 | 32.397 | - |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>AD5070 / AIR & MSL Defense Planning & Control Sys |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0604741A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | AD5070 / AIR & MSL Defense Planning & Control Sys | P-5a | | | 5 / 706.871 | 6 / 28.176 | 186 / 126.539 | 14 / 26.635 | 1 / 9.100 | 15 / 35.735 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **5 / 706.871** | **6 / 28.176** | **186 / 126.539** | **14 / 26.635** | **1 / 9.100** | **15 / 35.735** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 2018 Base procurement dollars in the amount of $26.635 million procures one (1) Air and Missile Defense Planning and Control System (AMDPCS-A) and one (1) Air and Missile Defense Planning and Control System AMDPCS-B shelters for an Air Defense Artillery (ADA) Brigade. FY18 Base procurement dollars also provide upgrades for previously fielded shelters: two (2) AMDPCS-As, two (2) AMDPCS-Bs and eight (8) Air Defense and Airspace Management (ADAM) Cell shelters.

FY 2018 OCO procurement dollars in the amount of $9.100 million supports the COCOM requirement for unit equipment sets to deter potential adversaries and support the European Reassurance Initiatives (ERI) requirements. The procurement includes 1 AMDPCS-A. ERI requirements are in addition to AAO.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing the military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** AD5070 / AIR & MSL Defense Planning & Control Sys | **Item Number / Title [DODIC]:** AD5070 / AIR & MSL Defense Planning & Control Sys |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 5 | 6 | 186 | 14 | 1 | 15 |
| Gross/Weapon System Cost *($ in Millions)* | 706.871 | 28.176 | 126.539 | 26.635 | 9.100 | 35.735 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 706.871 | 28.176 | 126.539 | 26.635 | 9.100 | 35.735 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **706.871** | **28.176** | **126.539** | **26.635** | **9.100** | **35.735** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 141,374.200 | 4,696.000 | 680.317 | 1,902.500 | 9,100.000 | 2,382.333 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| 1. System Integration/ Hardware(†) | 2,786.335 | 197 | 548.908 | 3,032.000 | 6 | 18.192 | 2,336.100 | 40 | 93.444 | 9,052.500 | 2 | 18.105 | 7,640.000 | 1 | 7.640 | 8,581.667 | 3 | 25.745 |
| *Subtotal: Recurring Cost* | - | - | *548.908* | - | - | *18.192* | - | - | *93.444* | - | - | *18.105* | - | - | *7.640* | - | - | *25.745* |
| ***Subtotal: Flyaway Cost*** | **-** | **-** | ***548.908*** | **-** | **-** | ***18.192*** | **-** | **-** | ***93.444*** | **-** | **-** | ***18.105*** | **-** | **-** | ***7.640*** | **-** | **-** | ***25.745*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| 5. Software Modifications | - | - | 31.436 | - | - | 2.431 | - | - | 2.426 | - | - | 1.659 | - | - | - | - | - | 1.659 |
| *Subtotal: Recurring Cost* | - | - | *31.436* | - | - | *2.431* | - | - | *2.426* | - | - | *1.659* | - | - | - | - | - | *1.659* |
| ***Subtotal: Software Cost*** | **-** | **-** | ***31.436*** | **-** | **-** | ***2.431*** | **-** | **-** | ***2.426*** | **-** | **-** | ***1.659*** | **-** | **-** | **-** | **-** | **-** | ***1.659*** |
| Support Cost | | | | | | | | | | | | | | | | | | |
| 2. Project Management Administration | - | - | 47.096 | - | - | 3.010 | - | - | 3.054 | - | - | 3.098 | - | - | - | - | - | 3.098 |
| 3. New Equipment Training (NET) | - | - | - | - | - | 1.714 | - | - | 10.898 | - | - | 1.767 | - | - | 0.763 | - | - | 2.530 |
| 4. Total Package Fielding (TPF) | - | - | 79.431 | - | - | 2.828 | - | - | 16.717 | - | - | 2.006 | - | - | 0.697 | - | - | 2.703 |
| ***Subtotal: Support Cost*** | **-** | **-** | ***126.527*** | **-** | **-** | ***7.552*** | **-** | **-** | ***30.669*** | **-** | **-** | ***6.871*** | **-** | **-** | ***1.460*** | **-** | **-** | ***8.331*** |
| **Gross/Weapon System Cost** | **141,374.200** | **5** | **706.871** | **4,696.000** | **6** | **28.176** | **680.317** | **186** | **126.539** | **1,902.500** | **14** | **26.635** | **9,100.000** | **1** | **9.100** | **2,382.333** | **15** | **35.735** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** AD5070 / AIR & MSL Defense Planning & Control Sys | **Item Number / Title [DODIC]:** AD5070 / AIR & MSL Defense Planning & Control Sys |

**ID Code** (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 1 | 180 | 14 | 1 | 15 |
| | Total Obligation Authority | 6.170 | 89.379 | 26.635 | 9.100 | 35.735 |
| ANG | Quantity | 3 | 6 | - | - | - |
| | Total Obligation Authority | 13.110 | 37.160 | - | - | - |
| AR | Quantity | 2 | - | - | - | - |
| | Total Obligation Authority | 8.896 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **6** | **186** | **14** | **1** | **15** |
| | **Total Obligation Authority** | **28.176** | **126.539** | **26.635** | **9.100** | **35.735** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** AD5070 / AIR & MSL Defense Planning & Control Sys | **Item Number / Title [DODIC]:** AD5070 / AIR & MSL Defense Planning & Control Sys |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. System Integration/Hardware | | 2016 | Tobyhanna Army Depot / Tobyhanna, PA | MIPR | Redstone Arsenal, AL | Oct 2015 | May 2016 | 6 | 3,032.000 | N | | |
| 1. System Integration/Hardware | | 2017 | Northrop Grumman / Huntsville, AL | C / CPFF | Huntsville, AL | Nov 2016 | May 2017 | 40 | 2,336.100 | N | | |
| 1. System Integration/Hardware | | 2018 | Tobyhanna Army Depot / Tobyhanna, PA | MIPR | Redstone Arsenal, AL | Nov 2017 | May 2018 | 2 | 9,052.500 | N | | |
| 1. System Integration/Hardware - 2 | | 2018 | Tobyhanna Army Depot / Tobyhanna, PA | MIPR | Redstone Arsenal, AL | Nov 2017 | May 2018 | 1 | 7,640.000 | N | | |

**Remarks:**
The Air and Missile Defense Planning and Control System (AMDPCS) is a COTS program. COTS and Government Furnished Equipment (GFE) are integrated by the contractor.

Quantities reflect six shelter types (AMDPCS-A, AMDPCS-B, ADAM Cell, ABMOC, Battery CP, and Sensor C2 Node) and Transit Cased ADSI with varying unit costs. This results in fluctuation of unit cost by year based on the quantities procured in support of Army fielding requirements.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** BZ5075 / IAMD Battle Command System |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: 0603327A, 0605457A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | 20.917 | 204.969 | - | - | - | - | 326.928 | 387.026 | 513.464 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 20.917 | 204.969 | - | - | - | - | 326.928 | 387.026 | 513.464 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **20.917** | **204.969** | **-** | **-** | **-** | **-** | **326.928** | **387.026** | **513.464** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Army Integrated Air and Missile Defense (AIAMD) Program is a direct response to the U.S. Army AMD Concept and Operational and Organizational (O&O) Plan for the Future Force, the Army Integrated Air and Missile Defense System of Systems (SoS) Capabilities Development Document (CDD) and the new Air and Missile Defense Task Force Concept of Operations (CONOPS). The AIAMD Program is uniquely structured to enable the development of an overarching system of systems (SoS) capability with all participating Air Defense Artillery (ADA) components functioning interdependently to provide total operational capabilities not achievable by the individual element systems. The AIAMD program achieves this objective by establishing the AIAMD architecture and developing (1) the IAMD Battle Command Systems (IBCS) Engagement Operations Center (EOC) that provides the common Mission Command capability, (2) the Integrated Fire Control Network (IFCN) capability for fire control connectivity and distributed operations, and (3) the common Plug and Fight (P&F) Kits that network enable multiple sensor components, weapon components, and the IBCS EOC.

The AIAMD Program will provide advanced capabilities to the Army and the soldier by allowing transformation to a network-centric system-of-systems capability (also referred to as "Plug and Fight") that integrates Army Air and Missile Defense (AMD) sensors and weapons with the IBCS EOC. The AIAMD SoS architecture will enable extended range and non-line-of-sight engagements, to include joint kill chain engagements across the full spectrum of aerial threats, providing fire control quality data to the most appropriate weapon to complete the mission successfully. Further, it will mitigate the coverage gaps and the single points of failure that have plagued AMD defense design in the past. The AIAMD program will provide the user with the ability to train on a single C2 system that will result in overall training savings. The AIAMD program will also provide the Army with the ability to procure components that will build to established interfaces allowing them to "connect" to the IFC network alleviating the cost of procuring total system capabilities in the future.

The Initial Operational Capability is delivered through the fielding of the IBCS EOC-based AIAMD architecture, including the IBCS EOC, Sentinel and Patriot components connected via an IFCN, working in an integrated manner. Additional capabilities include the incorporation of IBCS functionality into Indirect Fire Protection Capability (IFPC) components, Air Defense Airspace Management (ADAM) Cells, ADA Brigade Headquarters, Army Air and Missile Defense Command (AAMDC) Headquarters, and Terminal High Altitude Air Defense (THAAD) batteries.

AIAMD is a designated Major Defense Acquisition Program (MDAP).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 20.917 | 204.969 | - | - | - | - | 326.928 | 387.026 | 513.464 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>BZ5075 / IAMD Battle Command System | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** 0603327A, 0605457A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Total: Secondary Distribution | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 20.917 | 204.969 | - | - | - | - | 326.928 | 387.026 | 513.464 |

**Justification:**
There is no FY 2018 Funding request.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** BD3955 / Life Cycle Software Support (LCSS) |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 95.412 | 5.850 | 4.718 | 1.992 | - | 1.992 | 5.199 | 4.096 | 3.971 | 4.050 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 95.412 | 5.850 | 4.718 | 1.992 | - | 1.992 | 5.199 | 4.096 | 3.971 | 4.050 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **95.412** | **5.850** | **4.718** | **1.992** | **-** | **1.992** | **5.199** | **4.096** | **3.971** | **4.050** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Life Cycle Software Engineering (LCSE) support, by the Software Engineering Center (SEC), provides the essential equipment needed to maintain Communications-Electronics Life Cycle Management Command (C-E LCMC) managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. Approximately 100 BASs in Post Production Software Support (PPSS) directly depend on LCSE support to maintain a posture of mission critical readiness. LCSE system support and services are essential to maintain BASs in the state of operational readiness. Policy for Post Production Software Support (PPSS) requires that system managers provide initial host capabilities for new systems and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are no longer economically repairable and/or are reaching obsolescence. There is a requirement to respond to emergency requests from the field for Software Engineering support, in order to maintain operational readiness of deployed BASs. With host computers and peripherals having a life span of approximately five years and SEC performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments. SEC must purchase these items to meet systems mission requirements.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 5.850 | 4.718 | 3.985 | - | 3.985 | 4.003 | 4.000 | 3.971 | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **5.850** | **4.718** | **3.985** | **-** | **3.985** | **4.003** | **4.000** | **3.971** | **-** |

**Justification:**

FY 2018 Base Procurement dollars in the amount of $1.992 million supports the requirement to provide software engineering support to maintain operational readiness of deployed BASs.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** BA9301 / Network Management Initialization and Services |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 293.629 | 13.880 | 11.063 | 15.179 | - | 15.179 | 14.751 | 14.265 | 12.765 | 14.216 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 293.629 | 13.880 | 11.063 | 15.179 | - | 15.179 | 14.751 | 14.265 | 12.765 | 14.216 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **293.629** | **13.880** | **11.063** | **15.179** | **-** | **15.179** | **14.751** | **14.265** | **12.765** | **14.216** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Network Management Initialization and Services (NMIS) program supports the Army's objectives of an integrated Network Operations capability. There are two components to the program:

The Network Management System (NMS) project funds the Network Operations (NetOps) Trail Boss systems engineering support to converge NetOps and Cyber capabilities across the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA(ALT)) in order to enable improved network security and delivery of network operations services to the Generating Forces and Operating Forces of the Army. Integrated Cyber and NetOps capabilities support distributed operational NetOps responsibilities across the tactical and strategic components of the US Army enterprise network (LANDWARNET), simplify the network management environment for the tactical commander and the G6/S6 staff, and eliminate both functional and material redundancies in order to achieve efficiencies in fielding.

Data Products are required to initialize Army Tactical Mission Command Systems. Data Products are a collection of information/data required to plan and initialize Mission Command Systems like Joint Battle Command - Platform (JBC-P), Command Post of the Future (CPOF) and other Army Mission Command Systems. Information/Data includes: JBC-P database, Network Operation Center (NOC) databases, and Active Directory initialization files (e.g., Lightweight Directory Interchange Format (LDIFs)). Data Products enable end-to-end network centric connectivity and interoperability across the tactical internet. AAO is N/A.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 10.095 | 7.595 | 10.195 | - | 10.195 | 10.017 | 9.792 | 9.075 | 9.881 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 2.472 | 2.265 | 3.255 | - | 3.255 | 3.092 | 2.921 | 2.410 | 2.831 |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 1.313 | 1.203 | 1.729 | - | 1.729 | 1.642 | 1.552 | 1.280 | 1.504 |
| **Total:** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** BA9301 / Network Management Initialization and Services |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Secondary Distribution | Total Obligation Authority | 13.880 | 11.063 | 15.179 | - | 15.179 | 14.751 | 14.265 | 12.765 | 14.216 |

**Justification:**
In FY 2018, the NetOps Trail Boss will work integration of NetOps and Cyber program functionality with the Command Post Computing Environment to support version 3 deployment in FY19-20 timeframe.

FY 2018 Base procurement dollars, in the amount of $5.006 million, provides Government, Federally Funded Research and Development Center (FFRDC), and contractor systems engineering support to execute the duties as an integration/interoperability/convergence manager for the Army's NetOps portfolio in accordance with the ASA(ALT) Integrated NetOps Trail Boss designation memo, dated 26 July 2012, in order to integrate and converge NetOps capabilities and provide more effective network capability to the Warfighter. These duties include conducting and documenting technical assessments of Cyber and NetOps capabilities and gaps; developing and coordinating NetOps capability roadmaps across key Army stakeholders; developing interoperability specifications, supporting development of Cyber and NetOps requirement documents and program strategies, recommending realignment of resources to execute Army NetOps priorities; and updating and maintaining the Army NetOps Capability Configuration Management process. These duties include developing system engineering products and guiding program strategy alignment between emerging Defensive Cyber Operations efforts and existing NetOps programs.

FY 2018 Base Procurement dollars in the amount of $10.173 million procure 6.5 non-Enhanced Position Location Reporting System (EPLRS), Software Block (SWB) 2, SWB 11-12, and Capability Set (CS) 13 and newer (e.g., CS14/15/16) Data Product Networking Initialization products that support the Army Forces Generation (ARFORGEN) model, Unit Set Fielding (USF) priority and top Army priorities for deployment, training, and reset. It also procures the fielding, training, and support of the Initialization Tool Suite (ITS) which includes Warfighter Initialization Tool - Platform (WIT-P), Warfighter Initialization Tool - Server (WIT-S), and Warfighter Initialization Tool - Manager (WIT-M), and utilization of the Automated Initialization Manager (AIM). FY 2018 Funding will begin a shift from static data production to initialization being managed by the unit with simultaneous fieldings of ITS at both the upper and lower tactical internet (UTI/LTI). Static data products are still required for the large majority of FY 2018 planned unit upgrades. Data Products are essential for Blue Force Tracker (BFT) Situational Awareness data, for tactical digital messaging (e.g., Improvised Explosive Device (IED) awareness, Medical Evacuation (MEDEVAC), Call for Fire, etc.) and automated Command and Control (C2) to function.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** BA9320 / Maneuver Control System (MCS) |

| ID Code (A=Service Ready, B=Not Service Ready): B | Program Elements for Code B Items: 0203740A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 2,594 | 9,009 | 6,612 | 4,891 | - | 4,891 | 2,669 | 1,174 | 1,200 | 1,210 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 1,433.964 | 125.443 | 151.318 | 132.572 | - | 132.572 | 69.909 | 58.180 | 60.996 | 59.776 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,433.964 | 125.443 | 151.318 | 132.572 | - | 132.572 | 69.909 | 58.180 | 60.996 | 59.776 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,433.964** | **125.443** | **151.318** | **132.572** | **-** | **132.572** | **69.909** | **58.180** | **60.996** | **59.776** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 552.800 | 13.924 | 22.885 | 27.105 | - | 27.105 | 26.193 | 49.557 | 50.830 | 49.402 | Continuing | Continuing |

## Description:

Tactical Mission Command (TMC), a Major Automation Information System funded by the Maneuver Control System (MCS) line, consists of products and services that provide commanders and their staff situational awareness and executive decision making capability in a collaborative environment above platform level. The TMC portfolio includes Command Post of the Future (CPOF), Command Web, and Wave VoIP. The TMC suite is the implementation of essential warfighting functions that incorporate a common look and feel, to application based capabilities leveraging common services and infrastructure which are Common Operating Environment (COE) compliant. TMC is procuring the Tactical Server Infrastructure (TSI), which replaces legacy Battle Command Common Services (BCCS) and Intelligence Fusion Server (IFS) infrastructure solutions, thereby supporting all warfighting functions on a single server solution. The TSI server solution streamlines training and support across the signal and intelligence communities.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 5,443 | 2,633 | 2,016 | - | 2,016 | 1,043 | 407 | 550 | 555 |
| | Total Obligation Authority | 46.326 | 70.124 | 54.644 | - | 54.644 | 27.708 | 20.170 | 27.957 | 27.418 |
| ANG | Quantity | 2,403 | 2,532 | 1,899 | - | 1,899 | 1,091 | 526 | 400 | 404 |
| | Total Obligation Authority | 53.459 | 35.740 | 51.473 | - | 51.473 | 27.988 | 26.067 | 20.332 | 19.958 |
| AR | Quantity | 1,163 | 1,447 | 976 | - | 976 | 535 | 241 | 250 | 251 |
| | Total Obligation Authority | 25.658 | 45.454 | 26.455 | - | 26.455 | 14.213 | 11.943 | 12.707 | 12.400 |
| **Total: Secondary Distribution** | **Quantity** | **9,009** | **6,612** | **4,891** | **-** | **4,891** | **2,669** | **1,174** | **1,200** | **1,210** |
| | **Total Obligation Authority** | **125.443** | **151.318** | **132.572** | **-** | **132.572** | **69.909** | **58.180** | **60.996** | **59.776** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>BA9320 / Maneuver Control System (MCS) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): B | **Program Elements for Code B Items:** 0203740A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | BA9320 / Maneuver Control System (MCS) | P-5a | B | | 2,594 / 1,433.964 | 9,009 / 125.443 | 6,612 / 151.318 | 4,891 / 132.572 | - / - | 4,891 / 132.572 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **2,594 / 1,433.964** | **9,009 / 125.443** | **6,612 / 151.318** | **4,891 / 132.572** | **- / -** | **4,891 / 132.572** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement in the amount of $132.572 million supports purchase of 4,891 TMC Clients/laptops, other hardware (Battle Command Common Services (BCCS)/Tactical Server Infrastructure (TSI) servers, Server Management Consoles, and Gateways), and associated fielding support which will ensure that the Warfighter will be able to communicate effectively allowing for increased situational awareness and executive decision making capability in a collaborative environment above platform level.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** BA9320 / Maneuver Control System (MCS) | **Item Number / Title [DODIC]:** BA9320 / Maneuver Control System (MCS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : B | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 2,594 | 9,009 | 6,612 | 4,891 | - | 4,891 |
| Gross/Weapon System Cost *($ in Millions)* | 1,433.964 | 125.443 | 151.318 | 132.572 | - | 132.572 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,433.964 | 125.443 | 151.318 | 132.572 | - | 132.572 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,433.964** | **125.443** | **151.318** | **132.572** | **-** | **132.572** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 552.800 | 13.924 | 22.885 | 27.105 | - | 27.105 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Workstation (Initial Procurement)(†) | 8.127 | 17,701 | 143.857 | 3.569 | 1,691 | 6.036 | 3.570 | 964 | 3.441 | 3.586 | 683 | 2.449 | - | - | - | 3.586 | 683 | 2.449 |
| Workstation (Tech Refresh)(†) | 4.260 | 4,561 | 19.432 | 3.570 | 3,970 | 14.173 | 3.570 | 5,648 | 20.163 | 3.572 | 4,208 | 15.033 | - | - | - | 3.572 | 4,208 | 15.033 |
| Other Hardware | - | - | 241.153 | - | - | 33.370 | - | - | 61.229 | - | - | 55.606 | - | - | - | - | - | 55.606 |
| Peripherals | - | - | 32.166 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Training Base | - | - | 25.751 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *462.356* | - | - | *53.578* | - | - | *84.834* | - | - | *73.086* | - | - | - | - | - | *73.086* |
| ***Subtotal: Hardware Cost*** | **-** | **-** | ***462.356*** | **-** | **-** | ***53.578*** | **-** | **-** | ***84.834*** | **-** | **-** | ***73.086*** | **-** | **-** | **-** | **-** | **-** | ***73.086*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Software Licenses | - | - | 263.267 | - | - | 29.636 | - | - | 23.612 | - | - | 20.847 | - | - | - | - | - | 20.847 |
| PDSS | - | - | 146.300 | - | - | 3.635 | - | - | 2.801 | - | - | 2.000 | - | - | - | - | - | 2.000 |
| *Subtotal: Recurring Cost* | - | - | *409.567* | - | - | *33.271* | - | - | *26.413* | - | - | *22.847* | - | - | - | - | - | *22.847* |
| ***Subtotal: Software Cost*** | **-** | **-** | ***409.567*** | **-** | **-** | ***33.271*** | **-** | **-** | ***26.413*** | **-** | **-** | ***22.847*** | **-** | **-** | **-** | **-** | **-** | ***22.847*** |
| Support - Common Support Equipment Cost | | | | | | | | | | | | | | | | | | |
| Test and Measurement Equipment | - | - | 4.218 | - | - | 2.400 | - | - | 1.299 | - | - | 2.198 | - | - | - | - | - | 2.198 |
| ***Subtotal: Support - Common Support Equipment Cost*** | **-** | **-** | ***4.218*** | **-** | **-** | ***2.400*** | **-** | **-** | ***1.299*** | **-** | **-** | ***2.198*** | **-** | **-** | **-** | **-** | **-** | ***2.198*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** BA9320 / Maneuver Control System (MCS) | **Item Number / Title [DODIC]:** BA9320 / Maneuver Control System (MCS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : B | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Support - Data Cost | | | | | | | | | | | | | | | | | | |
| Technical Publications | - | - | 62.103 | - | - | 4.576 | - | - | 4.667 | - | - | 3.250 | - | - | - | - | - | 3.250 |
| *Subtotal: Support - Data Cost* | **-** | **-** | ***62.103*** | **-** | **-** | ***4.576*** | **-** | **-** | ***4.667*** | **-** | **-** | ***3.250*** | **-** | **-** | **-** | **-** | **-** | ***3.250*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding | - | - | 367.587 | - | - | 24.396 | - | - | 26.740 | - | - | 23.719 | - | - | - | - | - | 23.719 |
| *Subtotal: Support - Fielding Cost* | **-** | **-** | ***367.587*** | **-** | **-** | ***24.396*** | **-** | **-** | ***26.740*** | **-** | **-** | ***23.719*** | **-** | **-** | **-** | **-** | **-** | ***23.719*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Government Management | - | - | 39.641 | - | - | 2.889 | - | - | 2.946 | - | - | 3.065 | - | - | - | - | - | 3.065 |
| Contractor Management | - | - | 58.844 | - | - | 4.333 | - | - | 4.420 | - | - | 4.407 | - | - | - | - | - | 4.407 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***98.485*** | **-** | **-** | ***7.222*** | **-** | **-** | ***7.366*** | **-** | **-** | ***7.472*** | **-** | **-** | **-** | **-** | **-** | ***7.472*** |
| Support - System Engineering Cost | | | | | | | | | | | | | | | | | | |
| System Engineering | - | - | 29.648 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - System Engineering Cost* | **-** | **-** | ***29.648*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **552.800** | **2,594** | **1,433.964** | **13.924** | **9,009** | **125.443** | **22.885** | **6,612** | **151.318** | **27.105** | **4,891** | **132.572** | **-** | **-** | **-** | **27.105** | **4,891** | **132.572** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | 5,443 | 2,633 | 2,016 | - | 2,016 |
| | Total Obligation Authority | 46.326 | 70.124 | 54.644 | - | 54.644 |
| ANG | Quantity | 2,403 | 2,532 | 1,899 | - | 1,899 |
| | Total Obligation Authority | 53.459 | 35.740 | 51.473 | - | 51.473 |
| AR | Quantity | 1,163 | 1,447 | 976 | - | 976 |
| | Total Obligation Authority | 25.658 | 45.454 | 26.455 | - | 26.455 |
| **Total: Secondary Distribution** | **Quantity** | **9,009** | **6,612** | **4,891** | **-** | **4,891** |
| | **Total Obligation Authority** | **125.443** | **151.318** | **132.572** | **-** | **132.572** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** BA9320 / Maneuver Control System (MCS) | **Item Number / Title [DODIC]:** BA9320 / Maneuver Control System (MCS) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Workstation (Initial Procurement) | | 2016 | CHS / Taunton, MA | C / IDIQ | Aberdeen Proving Ground | Jan 2016 | Jul 2016 | 1,691 | 3.569 | Y | | |
| Workstation (Initial Procurement) | | 2017 | CHS / Taunton, MA | C / IDIQ | Aberdeen Proving Ground | Jan 2017 | Jul 2017 | 964 | 3.570 | Y | | |
| Workstation (Initial Procurement) | | 2018 | CHS / Taunton, MA | C / IDDQ | Aberdeen Proving Ground | Jan 2018 | Jul 2018 | 683 | 3.590 | Y | | |
| Workstation (Tech Refresh) | | 2016 | CHS / Taunton, MA | C / IDIQ | Aberdeen Proving Ground | Jan 2016 | Jul 2016 | 3,970 | 3.570 | Y | | |
| Workstation (Tech Refresh) | | 2017 | CHS / Taunton, MA | C / IDIQ | Aberdeen Proving Ground | Jan 2017 | Jul 2017 | 5,648 | 3.570 | Y | | |
| Workstation (Tech Refresh) | | 2018 | CHS / Taunton, MA | C / IDDQ | Aberdeen Proving Ground | Jan 2018 | Jan 2018 | 4,208 | 3.570 | Y | | |

**Remarks:**
Items are COTS/GOTS.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** W30001 / Global Combat Support System-Army (GCSS-A) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,657.779 | 146.654 | 155.660 | 37.201 | - | 37.201 | 10.572 | 34.938 | 39.489 | 15.001 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,657.779 | 146.654 | 155.660 | 37.201 | - | 37.201 | 10.572 | 34.938 | 39.489 | 15.001 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,657.779** | **146.654** | **155.660** | **37.201** | **-** | **37.201** | **10.572** | **34.938** | **39.489** | **15.001** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Global Combat Support System-Army (GCSS-Army) consists of two funding subcomponents; Standard Army Management Information Systems (STAMIS) Tactical Computers (STACOMP)and Army Enterprise System Integration Program (AESIP).

GCSS-Army will modernize tactical logistics by implementing a web based and commercial best business practices system to streamline supply and maintenance, property accountability, and logistics management and integration procedures in all tactical units of the Army. GCSS-Army will provide a comprehensive solution for meeting the day-to-day needs of tactical level logistics, logistics finance operations and statutory auditability requirements. GCSS-Army will enable Commanders to obtain an integrated, interoperable view of the sustainment situation in the battle-space in sufficient time to support decisions that will affect the outcome of combat operations, combat power and planning for future operations.

The Army Enterprise Systems Integration Program (AESIP), mission is to integrate Army business processes by providing a single source for enterprise hub services, centralized master data management, and business intelligence and analytics. AESIP will support the Army's federated approach and enable the integration of end-to-end logistical and financial processes. The AESIP solution establishes a framework for a fully integrated ERP centric environment that will ultimately provide Commanders Total Asset Visibility from Factory to Battlefield thereby ensuring delivery of the right equipment to the right unit at the right time, while reducing backlogs of material on the battlefield.

Building on the foundation of GCSS-Army Increment 1, Increment 2 will provide the Army Enterprise Aviation maintenance, enhanced Business Intelligence / Business Warehouse (BI/BW) and Army Pre-Positioned Stock (APS) functional capabilities to deliver greater efficiencies and to improve information flow and accuracy in real time to decision makers. Upon the completion of Increment II, the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A(E)), Unmanned Aircraft System-Initiative (UAS-I), and Army War Reserve Deployment System (AWRDS) will be eligible for retirement since the necessary functionality will have been replaced by GCSS-Army increments. GCSS-Army will provide the Army sustainment support for the warfighter with a seamless flow of timely, accurate, accessible and secure management information that gives combat forces a decisive edge.

GCSS-Army is a designated Major Automation Information System (MAIS) program.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>W30001 / Global Combat Support System-Army (GCSS-A) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 70.350 | 82.952 | 23.430 | - | 23.430 | 10.572 | 34.938 | 39.489 | 15.001 |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 33.201 | 31.555 | 6.016 | - | 6.016 | - | - | - | - |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 43.103 | 41.153 | 7.755 | - | 7.755 | - | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **146.654** | **155.660** | **37.201** | **-** | **37.201** | **10.572** | **34.938** | **39.489** | **15.001** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>W30001 / Global Combat Support System-Army (GCSS-A) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | W00800 / GCSS-A Increment 1 | P-5a | | | - / 1,607.524 | - / 143.262 | - / 152.965 | - / 30.637 | - / - | - / 30.637 |
| P-5 | W11001 / AESIP Increment 1 | P-5a | | | - / 50.255 | - / 3.392 | - / 2.695 | - / 2.697 | - / - | - / 2.697 |
| P-5 | W11011 / GCSS-Army Increment 2 | P-5a | | | - / - | - / - | - / - | - / 3.867 | - / - | - / 3.867 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 1,657.779** | **- / 146.654** | **- / 155.660** | **- / 37.201** | **- / -** | **- / 37.201** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**

FY 18 Base procurement dollars in the amount of $33.334 million supports GCSS-Army Wave 2 fielding and training support for the final deployment of the system to the remaining Wave 2 units in the Army via fielding groups. The GCSS-Army funding supports procurement of hardware and software required for the full deployment and implementation of an Enterprise Business Intelligence solution and a Database Management System; standard hardware refresh for the Program Management Office as well as allows for the replacement of out-of-warranty hardware; built out of the ERP enclave in support of the Army's Common Operating Environment (COE) initiatives and the implementation of the SAP High-Performance Analytic Appliance (HANA). SAP HANA begets the acceleration of replication and ingestion of structured data from relational databases, applications, and other systems quickly.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities

FY 18 Base procurement dollars in the amount of $3.867 million supports procurement of hardware, software, and user licenses for initial limited deployment for Increment 2.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** W30001 / Global Combat Support System-Army (GCSS-A) | **Item Number / Title [DODIC]:** W00800 / GCSS-A Increment 1 |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,607.524 | 143.262 | 152.965 | 30.637 | - | 30.637 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,607.524 | 143.262 | 152.965 | 30.637 | - | 30.637 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,607.524** | **143.262** | **152.965** | **30.637** | **-** | **30.637** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| System Integrator Fielding/Training(†) | 1,565,554.000 | 1 | 1,565.554 | - | - | 66.024 | - | - | 89.753 | - | - | 12.337 | - | - | - | - | - | 12.337 |
| ERP Deployment Support | - | - | 15.692 | - | - | 28.156 | - | - | 15.960 | - | - | - | - | - | - | - | - | - |
| Matrix and Other Support | - | - | 13.766 | - | - | 19.681 | - | - | 10.037 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | *1,595.012* | - | - | *113.861* | - | - | *115.750* | - | - | *12.337* | - | - | - | - | - | *12.337* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***1,595.012*** | **-** | **-** | ***113.861*** | **-** | **-** | ***115.750*** | **-** | **-** | ***12.337*** | **-** | **-** | **-** | **-** | **-** | ***12.337*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Software/Hardware(†) | 12,512.000 | 1 | 12.512 | - | - | 29.401 | - | - | 37.215 | - | - | 18.300 | - | - | - | - | - | 18.300 |
| *Subtotal: Non Recurring Cost* | - | - | *12.512* | - | - | *29.401* | - | - | *37.215* | - | - | *18.300* | - | - | - | - | - | *18.300* |
| *Subtotal: Software Cost* | **-** | **-** | ***12.512*** | **-** | **-** | ***29.401*** | **-** | **-** | ***37.215*** | **-** | **-** | ***18.300*** | **-** | **-** | **-** | **-** | **-** | ***18.300*** |
| **Gross/Weapon System Cost** | **-** | **-** | **1,607.524** | **-** | **-** | **143.262** | **-** | **-** | **152.965** | **-** | **-** | **30.637** | **-** | **-** | **-** | **-** | **-** | **30.637** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** W30001 / Global Combat Support System-Army (GCSS-A) | **Item Number / Title [DODIC]:** W00800 / GCSS-A Increment 1 |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| | Total Obligation Authority | 66.958 | 80.257 | 16.866 | - | 16.866 |
| ANG | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 33.201 | 31.555 | 6.016 | - | 6.016 |
| AR | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 43.103 | 41.153 | 7.755 | - | 7.755 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **143.262** | **152.965** | **30.637** | **-** | **30.637** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89 | P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A) | Item Number / Title [DODIC]: W00800 / GCSS-A Increment 1 |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| System Integrator Fielding/Training | | 2014 | Northrop Grunman / Midlothian, VA | C / CPFF | ACCRI, Rock Island Arsenal, IL | Oct 2013 | Oct 2013 | 0 | 0.000 | Y | | |
| System Integrator Fielding/Training | | 2015 | Northrop Grunman / Midlothian, VA | C / CPFF | ACCRI, Rock Island Arsenal, IL | Oct 2014 | Oct 2014 | 0 | 0.000 | Y | | |
| System Integrator Fielding/Training | | 2016 | Northrop Grunman / Midlothian, VA | C / CPFF | ACCRI, Rock Island Arsenal, IL | Dec 2015 | Dec 2015 | 0 | 0.000 | Y | | |
| System Integrator Fielding/Training | | 2017 | Northrop Grunman / Midlothian, VA | C / CPFF | ACCRI, Rock Island Arsenal, IL | Dec 2016 | Dec 2016 | 0 | 0.000 | Y | | |
| System Integrator Fielding/Training | | 2018 | Northrop Grunman / Midlothian, VA | C / CPFF | ACCRI, Rock Island Arsenal, IL | Dec 2017 | Dec 2017 | 0 | 0.000 | Y | | |
| Software/Hardware | | 2018 | Multiple Hardware/Software / Various | C / FP | ACCRI, Rock Island Arsenal, IL | Mar 2018 | Mar 2018 | 0 | 0.000 | Y | | |

**Remarks:**
All COTS items. FY18 OPA funding will be used for the following contracting actions: Fielding and training effort to be completed by the Program's Lead Systems Integrator (LSI) Northrop Grumman to 21 Fielding Elements of Fielding Group 30 (complete full deployment), additional fielding and training support to supplement the LSI's fielding team will be extended to the contract in FY18, hardware refresh of technologically obsolete physical infrastructure components (e.g. servers and other miscellaneous hardware), and final requirements for FY18 will incur other noncontract related costs such as matrix support for fielding/training activities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** W30001 / Global Combat Support System-Army (GCSS-A) | **Item Number / Title [DODIC]:** W11001 / AESIP Increment 1 |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 50.255 | 3.392 | 2.695 | 2.697 | - | 2.697 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 50.255 | 3.392 | 2.695 | 2.697 | - | 2.697 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **50.255** | **3.392** | **2.695** | **2.697** | **-** | **2.697** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Flyaway Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| AESIP Hardware & Software(†) | - | - | 50.255 | 3,392.000 | 1 | 3.392 | 2,695.000 | 1 | 2.695 | 2,697.000 | 1 | 2.697 | - | - | - | 2,697.000 | 1 | 2.697 |
| *Subtotal: Recurring Cost* | - | - | *50.255* | - | - | *3.392* | - | - | *2.695* | - | - | *2.697* | - | - | - | - | - | *2.697* |
| *Subtotal: Flyaway Cost* | **-** | **-** | ***50.255*** | **-** | **-** | ***3.392*** | **-** | **-** | ***2.695*** | **-** | **-** | ***2.697*** | **-** | **-** | **-** | **-** | **-** | ***2.697*** |
| **Gross/Weapon System Cost** | **-** | **-** | **50.255** | **-** | **-** | **3.392** | **-** | **-** | **2.695** | **-** | **-** | **2.697** | **-** | **-** | **-** | **-** | **-** | **2.697** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 3.392 | 2.695 | 2.697 | - | 2.697 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **3.392** | **2.695** | **2.697** | **-** | **2.697** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** W30001 / Global Combat Support System-Army (GCSS-A) | **Item Number / Title [DODIC]:** W11001 / AESIP Increment 1 |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AESIP Hardware & Software | | 2015 | Multiple Hardware/Software / Various | C / FP | ACCRI, Rock Island Arsenal, IL | Dec 2014 | Jan 2015 | 0 | 1,076.000 | Y | | |
| AESIP Hardware & Software | | 2016 | Multiple Hardware/Software / Various | C / FP | ACCRI, Rock Island Arsenal, IL | Jan 2016 | Feb 2016 | 1 | 3,392.000 | Y | | |
| AESIP Hardware & Software | | 2017 | Multiple Hardware/Software / Various | C / FP | ACCRI, Rock Island Arsenal, IL | May 2017 | Jun 2017 | 1 | 2,695.000 | Y | | |
| AESIP Hardware & Software | | 2018 | Multiple Hardware/Software / Various | C / FP | ACCRI, Rock Island Arsenal, IL | May 2018 | Jun 2018 | 1 | 2,697.000 | N | | |

**Remarks:**
FY18 OPA funding will be used for various software licenses and hardware procurements in support of running the AESIP system architecture.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 89 | **P-1 Line Item Number / Title:** W30001 / Global Combat Support System-Army (GCSS-A) | **Item Number / Title [DODIC]:** W11011 / GCSS-Army Increment 2 |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | - | 3.867 | - | 3.867 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | - | 3.867 | - | 3.867 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **-** | **3.867** | **-** | **3.867** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| SAP Licenses and Hardware(†) | - | - | - | - | - | - | - | - | - | 3,867.000 | 1 | 3.867 | - | - | - | 3,867.000 | 1 | 3.867 |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *3.867* | - | - | - | - | - | *3.867* |
| *Subtotal: Software Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***3.867*** | **-** | **-** | **-** | **-** | **-** | ***3.867*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **3.867** | **-** | **-** | **-** | **-** | **-** | **3.867** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | - | 3.867 | - | 3.867 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **-** | **3.867** | **-** | **3.867** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 89 | P-1 Line Item Number / Title: W30001 / Global Combat Support System-Army (GCSS-A) | Item Number / Title [DODIC]: W11011 / GCSS-Army Increment 2 |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAP Licenses and Hardware | | 2018 | SAP / TBD | TBD | TBD | Jan 2018 | Mar 2018 | 1 | 3,867.000 | | Apr 2018 | Oct 2017 |

**Remarks:**
All COTS items. FY18 OPA funding will be used for the procurement of SAP software licenses for the user community, and costs for initial limited deployment.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** B66701 / Integrated Personnel and Pay System-Army (IPPS-A) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 16.970 | 4.446 | 4.214 | 16.140 | - | 16.140 | 46.378 | 9.504 | 9.695 | 10.000 | - | 117.347 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 16.970 | 4.446 | 4.214 | 16.140 | - | 16.140 | 46.378 | 9.504 | 9.695 | 10.000 | - | 117.347 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **16.970** | **4.446** | **4.214** | **16.140** | **-** | **16.140** | **46.378** | **9.504** | **9.695** | **10.000** | **-** | **117.347** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The IPPS-A provides the Army with an integrated, multi-component, military personnel and pay system which streamlines Army Human Resources (HR), enhances the efficiency and accuracy of Army personnel and pay procedures, and supports Soldiers and their families. The IPPS-A will subsume approximately 43 Army legacy systems across the Army, Army Reserve, and National Guard, into an integrated system. The IPPS-A is a web-based tool, available 24 hours a day, accessible to HR professionals, combatant commanders, personnel and pay managers, and other authorized users throughout the Army. IPPS-A addresses major deficiencies in the delivery of military personnel and pay services and also provides internal controls and audit procedures that prevent erroneous payments and loss of funds.

IPPS-A Increment II will deliver full integrated personnel and pay services for all Army Components, building on the trusted database delivered by the IPPS-A Increment I program. Increment II will be able to link the personnel and pay functions for all Army personnel, eliminating duplicate data entry, reducing complex system maintenance, and minimizing pay discrepancies. IPPS-A Increment II will account for status changes between Active, Reserve, and National Guard components to ensure accurate service time minimizing impact on individual pay, credit for service, and other benefits as well as enable disciplined human resource management.

IPPS-A Increment I and Increment II are both designated Major Automation Information System (MAIS) programs.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 4.446 | 4.214 | 16.140 | - | 16.140 | 46.378 | 9.504 | 9.695 | 10.000 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **4.446** | **4.214** | **16.140** | **-** | **16.140** | **46.378** | **9.504** | **9.695** | **10.000** |

**Justification:**
FY 2018 Base procurement dollars in the amount of $16.140 million supports Release 2.0 training and deployment. This includes the completion of fielding, deploying, and training the 355,000 Army National Guard Soldiers for both web-based and instructor-led training.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>B66701 / Integrated Personnel and Pay System-Army (IPPS-A) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** BZ9966 / Reconnaissance and Surveying Instrument Set |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 1,069 | 190 | 191 | 77 | - | 77 | 68 | 170 | 249 | 235 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 90.220 | 16.218 | 16.185 | 6.093 | - | 6.093 | 5.363 | 13.765 | 19.877 | 18.726 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 90.220 | 16.218 | 16.185 | 6.093 | - | 6.093 | 5.363 | 13.765 | 19.877 | 18.726 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **90.220** | **16.218** | **16.185** | **6.093** | **-** | **6.093** | **5.363** | **13.765** | **19.877** | **18.726** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 84.397 | 85.358 | 84.738 | 79.130 | - | 79.130 | 78.868 | 80.971 | 79.827 | 79.685 | Continuing | Continuing |

## Description:

The Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) is a Digital technical stand off engineering and data collection tool set, designed to perform reconnaissance, obstacle reporting, construction management, and surveying using precision measuring devices in conjunction with a tablet computer that contains user friendly Geographic Information System (GIS) to auto populate Road, Bridge, Minefield, and UXO report forms. It allows greater accuracy and precision of measurements and faster, automatic information collection and less error-prone dissemination. ENFIRE is Common Joint Mapping Tool Kit (CJMTK) compatible for geospatial interoperability and allows data collection from a distance, minimizing exposure to enemy observation; greatly improving safety to soldiers. ENFIRE kits are comprised of commercial off the shelf equipment

ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, ford, tunnel and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the Battalion, Company, Platoon, and Squad levels as a means to facilitate rapid collection and dissemination of information to commanders in the field. Information may be disseminated via the Battle Command Common Services to other ENFIRE sets and to other Mission Command (MC) and Intelligence systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate research and development efforts that have application across Military and General Engineering disciplines.

The long distance laser range finder allows soldiers to quickly and accurately determine a target's bearing and distance from the users' location at a significant standoff range. Used in conjunction with the Defense Advanced Global Positioning System Receiver and ArcMap software, ENFIRE users are able to create overlays of bridges, roads, hasty minefields, and IEDs on digital maps as they collect information related to these targets. Using the video camcorder and digital scanner, ENFIRE users can also collect picture and scanned image files that can be associated with bridge, road, hasty minefield and IED information for reporting purposes. Reports can be generated in hard or soft copy for rapid dissemination.

ENFIRE Army Acquisition Objective (AAO) = 2864

ENFIRE Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 32 | 50 | 77 | - | 77 | 68 | 39 | 46 | 7 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** BZ9966 / Reconnaissance and Surveying Instrument Set |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total Obligation Authority | 2.608 | 4.185 | 6.093 | - | 6.093 | 5.363 | 3.166 | 3.664 | 0.563 |
| ANG | Quantity | 88 | 95 | - | - | - | - | 92 | 97 | 115 |
| | Total Obligation Authority | 7.562 | 8.000 | - | - | - | - | 7.433 | 7.759 | 9.175 |
| AR | Quantity | 70 | 46 | - | - | - | - | 39 | 106 | 113 |
| | Total Obligation Authority | 6.048 | 4.000 | - | - | - | - | 3.166 | 8.454 | 8.988 |
| **Total: Secondary Distribution** | **Quantity** | **190** | **191** | **77** | **-** | **77** | **68** | **170** | **249** | **235** |
| | **Total Obligation Authority** | **16.218** | **16.185** | **6.093** | **-** | **6.093** | **5.363** | **13.765** | **19.877** | **18.726** |

**Justification:**
FY 2018 Base procurement dollars in the amount of $6.093 million supports fielding, new equipment training, integration of Security and Interoperability updates for ENFIRE systems issued to Active Duty, National Guard and Army Reserve Engineer units. Security and interoperability updates are critical to the cyber security posture of the system and are required for connection to NIPR and SIPR networks. Further, ENFIRE kits are comprised of commercial off the shelf equipment

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:** B99901 / MOD of In-Svc Equipment (ENFIRE) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 137 | 190 | 137 | - | 137 | 144 | 239 | 241 | 350 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | - | 1.138 | 1.565 | 1.134 | - | 1.134 | 1.191 | 1.984 | 1.986 | 3.000 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 1.138 | 1.565 | 1.134 | - | 1.134 | 1.191 | 1.984 | 1.986 | 3.000 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **1.138** | **1.565** | **1.134** | **-** | **1.134** | **1.191** | **1.984** | **1.986** | **3.000** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 8.307 | 8.237 | 8.277 | - | 8.277 | 8.271 | 8.301 | 8.241 | 8.571 | Continuing | Continuing |

## Description:

Mod of In-Svc Equipment Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) supports tech refresh of fielded systems. Tech refresh of ENFIRE is on a five year cycle and is the replacement of the laptop and selected peripherals. ENFIRE tech refresh kits are comprised of commercial off the shelf equipment.

The Instrument Set, Reconnaissance and Surveying (commonly known as ENFIRE) is a digital technical stand off engineering and data collection tool set, designed to perform reconnaissance, obstacle reporting, construction management, and surveying using precision measuring devices in conjunction with a tablet computer that contains user friendly Geographic Information System (GIS) to auto populate road, bridge, minefield, and Unexploded Ordnance (UXO) report forms. It allows greater accuracy and precision of measurements and faster, automatic information collection and less error-prone dissemination. ENFIRE is Common Joint Mapping Tool Kit (CJMTK) compatible for geospatial interoperability and allows data collection from a distance, minimizing exposure to enemy observation; greatly improving safety to soldiers.

ENFIRE incorporates the ability to automatically populate field data on digital forms used for road, bridge, hasty minefield, ford, tunnel and Improvised Explosive Device (IED) reconnaissance/reporting with relevant information from peripheral devices included in the ENFIRE set. ENFIRE sets are used at the Battalion, Company, Platoon, and Squad levels as a means to facilitate rapid collection and dissemination of information to commanders in the field. Information may be disseminated via the Battle Command Common Services to other ENFIRE sets and to other Mission Command (MC) and Intelligence systems. ENFIRE also has broad area application as a common computing platform for the engineer platoon; with plans to incorporate research and development efforts that have application across Military and General Engineering disciplines.

The long distance laser range finder allows soldiers to quickly and accurately determine a target's bearing and distance from the users' location at a significant standoff range. Used in conjunction with the Defense Advanced Global Positioning System Receiver and ArcMap software, ENFIRE users are able to create overlays of bridges, roads, hasty minefields, and IEDs on digital maps as they collect information related to these targets. Using the video camcorder and digital scanner, ENFIRE users can also collect picture and scanned image files that can be associated with bridge, road, hasty minefield and IED information for reporting purposes. Reports can be generated in hard or soft copy for rapid dissemination.

ENFIRE Army Acquisition Objective (AAO) = 2,864

ENFIRE Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 89: Elect Equip - Tactical C2 Systems | **P-1 Line Item Number / Title:**<br>B99901 / MOD of In-Svc Equipment (ENFIRE) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 137 | 190 | 137 | - | 137 | 144 | 239 | 241 | 350 |
| | Total Obligation Authority | 1.138 | 1.565 | 1.134 | - | 1.134 | 1.191 | 1.984 | 1.986 | 3.000 |
| **Total: Secondary Distribution** | **Quantity** | **137** | **190** | **137** | **-** | **137** | **144** | **239** | **241** | **350** |
| | **Total Obligation Authority** | **1.138** | **1.565** | **1.134** | **-** | **1.134** | **1.191** | **1.984** | **1.986** | **3.000** |

**Justification:**
FY 2018 Base procurement dollars in the amount of $1.134 million supports tech refresh of 137 ENFIRE systems. ENFIRE tech refresh kits are comprised of commercial off the shelf equipment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** BE4169 / Army Training Modernization |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | 9,597 | - | - | - | - | - | - | - | - | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 305.051 | 12.089 | 17.693 | 11.575 | - | 11.575 | 17.018 | 17.792 | 16.148 | 15.687 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 305.051 | 12.089 | 17.693 | 11.575 | - | 11.575 | 17.018 | 17.792 | 16.148 | 15.687 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **305.051** | **12.089** | **17.693** | **11.575** | **-** | **11.575** | **17.018** | **17.792** | **16.148** | **15.687** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | 1.260 | - | - | - | - | - | - | - | - | Continuing | Continuing |

## Description:

Army Training Modernization (ATM) consists of three related efforts to include Distributive Training Technology Project (DTTP), Other Training Modernization, and the Distributed Learning System (DLS) to acquire Digital Training Facilities (DTF). DTFs allow rapid delivery of high quality instruction to Army personnel. Infrastructure acquired is based on industry standards and complies with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This assures compatibility with other military services and that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support all Army components.

ATM provides a cost effective solution for training Army personnel. Supported training enhancements will help reduce the current backlog of Military Operational Specialty (MOS) training. Army can significantly increase levels of MOS qualification, hence readiness, with standardized Army courseware delivered through Distributed Learning (DL) technology. Implementation of these technology enablers reduce resident training requirements and Soldiers spend less time in the training base and more time in units, thereby increasing readiness. ATM delivers standardized training to Active Component (AC) and Reserve Component (RC) Soldiers and Department of the Army Civilians (DAC).

The DTTP/DLS provide infrastructure for Soldiers to train at or near their assigned station in lieu of resident training at Army schools. DTTP and DLS will provide approximately 549 modern distance learning (DL) enabled DTFs and associated supporting infrastructure to augment training at existing resident Army schools. Moreover, DLS has fielded 30 Deployed Digital Training Campus (DDTC) to allow training while units are deployed. This allows Army to both increase the number of Army personnel receiving required training and the amount of training that can be provided to each individual.

DLS provides the information technology for delivery and management of training in support of individual and collective task training. Benefits include increased training effectiveness and efficiency, improved readiness, and increased training for customers. Key customers: Soldiers (Active, National Guard, and Reserve) and Army Civilians. Key Stakeholders: Army Training and Doctrine Command (Functional Proponent Agent), all other Army Commands, Program Executive Officer - Enterprise Information Systems, and Army General Staff. DLS provides capabilities using Commercial-Off-The-Shelf (COTS) solutions: (1) Digital Training Facilities (DTF): electronic classrooms that deliver multimedia courseware for self-paced training or group training events; (2) Enterprise Management Center (EMC): centralized system management of the DLS information resources; (3) Army Learning Management System (ALMS): a web-based information system for centralizing, standardizing, and optimizing training, training management, and training delivery functions; (4) Deployed Digital Training Campuses (DDTC): electronic transportable classrooms that deliver multimedia courseware for self-paced instruction or group training events in a deployed location; and, (5) Army e-Learning: web-based training products used to acquire and sustain business, information technology or foreign language skills. As a whole, DLS facilitates the Training Mission Area mission to teach technical and tactical proficiency, develop military occupational specialty (MOS) skills, develop Leaders, support Army Training Transformation, Army Force Generation (ARFORGEN) and Lifelong Learning, promote self-development, and sustain individual and unit combat skills.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** BE4169 / Army Training Modernization | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

The United States Army Intelligence Center of Excellence (USAICoE) trains Military Intelligence (MI) Soldiers, Leaders from all services, the professional civilian Intelligence workforce and mobilized reserve components as a power support platform for the Active Army. Because of Military Intelligence's reliance on Information Technology, information systems are the primary weapons for the Military Intelligence Corps, and a digital infrastructure that comprises the systems, networks, and databases that MI Soldiers and Leaders will use in the Force is required for training. The USAICoE G-6 is chartered with continuously maintaining and improving this vital digital training infrastructure, which encompasses 5 discreet network enclaves, each operating at different levels of classification, 25 training buildings, 4 field sites, 325 digital classrooms, and 3 data centers. The USAICoE G-6 operates and maintains the largest single site installation of Distributed Common Ground System-Army (DCGS-A).

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 9,597 | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 12.089 | 17.693 | 11.575 | - | 11.575 | 17.018 | 17.792 | 16.148 | 15.687 |
| **Total: Secondary Distribution** | **Quantity** | **9,597** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **12.089** | **17.693** | **11.575** | **-** | **11.575** | **17.018** | **17.792** | **16.148** | **15.687** |

**Justification:**

FY 2018 (BE4171) Base procurement dollars in the amount of $4.710 million supports system integration and technical refresh for 18 of the Program's 334 DL Classrooms. Many of the DL Classrooms have workstations, audio/video equipment, and printers that are well past their end of life and need technical refresh to comply with heightened Cybersecurity standards and new network infrastructure to ensure their continued availability and capability to meet current and emerging training and readiness requirements for the ARNG's State and Federal missions.

FY 2018 (BE4172) Base procurement dollars in the amount of $4.382 million supports the United States Army Intelligence Center of Excellence Soldiers and Leaders from all services with network equipment including servers, firewalls, and other related hardware for the Distributed Common Ground System-Army infrastructure.

FY 2018 (BE4173) Base procurement dollars in the amount of $2.483 million funds the DLS Enterprise Technology Refreshment (Tech Refresh) program in support of all increments (Digital Training Facilities (DTF), Enterprise Management Center (EMC), Army Learning Management System (ALMS), and Deployed Digital Training Campus (DDTC)). Tech Refresh extends the service life by staying ahead of the obsolescence curve with cost-effective planned technology upgrades, refreshers, and insertions, based on market research and system performance requirements (current and projected). With the advance of information technology, it is critical that Tech Refresh be maintained to assure continued supportability of the DLS Enterprise and to avoid disruption of Army Training. Funds are also needed for software and engineering changes required to enhance the ALMS assessment capabilities. This will expand the automated capability for the creation, storage, management, and administration of online testing and course product evaluations (including surveys) to support Army Soldier and civilian training and education.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 3,453.355 | 110.835 | 145.490 | 91.983 | - | 91.983 | 108.577 | 161.278 | 122.681 | 145.313 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 3,453.355 | 110.835 | 145.490 | 91.983 | - | 91.983 | 108.577 | 161.278 | 122.681 | 145.313 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **3,453.355** | **110.835** | **145.490** | **91.983** | **-** | **91.983** | **108.577** | **161.278** | **122.681** | **145.313** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

All information technology (IT) procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site.

The Automated Data Processing Equipment (ADPE) program supports the Army's sustaining base automation systems. The Army's primary sustaining base Information Management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. The Army's modernization strategy to support its warfighting forces in the 21st Century leverages and aligns the use of automation technology to consolidate, streamline, and modernize its management information systems to support Command, Control, Communications, Computers (C4) for the Warfighter, power projection strategies, battle space awareness, Army Transformation, home station and modularity capabilities, focused logistics, and downsized force structures. Modernization plans flow from strategic planning (mission needs) and ensure standardization, interoperability, and systemic replacement of equipment that is obsolete due to technology changes, reliability, and serviceability. The ADPE program provides combat service support to the Warfighter in the areas of command and control, logistics, personnel, and other sustaining base functions..

ITA RESOURCES (B01002):
PENTAGON INFORMATION TECHNOLOGY INFRASTRUCTURE (PITI): The PITI provides network transport for all Services and Agencies in the Pentagon at all security classification levels. This program includes comprehensive network security, computer network defense, and intrusion detection at the DoD Information Networks Pentagon edge. It also provides the Pentagon Installation Processing Node (IPN) with full spectrum computing and data management, data storage, replication, recovery, and back-up. The PITI also provides the organizational messaging node for DoD and replaces existing firewalls with the joint computer network defense architecture for the Pentagon node. Life Cycle Replacement of the Pentagon's core network infrastructure is critical; it replaces aging equipment from the Pentagon infrastructure renovation 6 to 10 years ago and will minimize the risk for increased occurrences/ durations of widespread network outages and higher maintenance costs. The program also provides the capacity needed to meet the Joint Information Environment bandwidth requirements based on the virtualization and continuing alignment of Enterprise services at DoD Core Data Centers. In FY 2017 PITI funds were realigned from Standard Study Number BE4161, HQ Management Information Systems, to B01002, ITA Resources, for more efficient, effective program management in accordance with the Information Technology Agency (ITA) transition to the Joint Information Technology Service Provider Pentagon. In FY18, this program transfers from Army to DoD.

OPTICAL DIGITAL EQUIP (BD3956):

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

ARMY RECORDS INFORMATION MANAGEMENT SYSTEM (ARIMS): The ARIMS is the Department of the Army's enterprise record keeping system. It is used to identify, collect, preserve, and retrieve electronic record information and index hard copy records with retention periods ranging from 7 to 150 years in 130 Army-owned Records Holding Areas and 16 Federal Records Centers. With over 68,000 users, ARIMS provides the central capability for sharing information that documents the conduct of the Army's business, contingency and war-time operations, and ensures economy and efficiency in documenting Army policies, decisions, and operations. The ARIMS web-based tools reduce the administrative burden of the Warfighter, ensure that the Army's official and historical records are preserved, improve and sustain legitimate access to Army records, and promote compliance with governing statutes. The ARIMS supports Army-wide record management activities, including those addressing Department of Army responsibilities under the Freedom of Information Act (FOIA), the Privacy Act, Executive Order 13526 Declassification requirements, and the Army's combat records research role as the Department of Defense Executive Agent for Post-Traumatic Stress Disorder (PTSD) and other health related claims filed by Veterans. Specialized record collections include Gulf War Declassification, Operation Enduring Freedom, Operation Iraqi Freedom, Operation New Dawn, and other contingency operations. Technology refresh ensures the Army's records comply with statutory and regulatory requirements, preserves individual record integrity, mitigates the risk of historical information loss, and ensures official Army records are available for Congressional, Government Accountability Office, Executive Branch, and FOIA requirements. Under the Army Data Center Consolidation Plan (ADCCP) initiative, ARIMS is identified as an Army application pending data center 'hosting' disposition.

INTERACTIVE PERSONNEL ELECTRONIC RECORDS MANAGEMENT SYSTEM (iPERMS): The iPERMS supports the Army's military personnel management mission on a 24 hours a day/7 days a week basis as required by Titles 10 and 44 US Code and DoD Directive 5015.2. The iPERMS is the Records Management Application (RMA) for the Army Military Human Resource Record (AMHRR), also known as the Official Military Personnel File (OMPF). It is used by Army Human Resource Managers and Soldiers throughout the world as the authoritative source for Army personnel documents and is also the repository for Soldier pay-substantiating documents. The documents in iPERMS are critical to the Army's Promotion, Command, and School Selection Board processes for both Enlisted and Officer Soldiers, and Army Audit Readiness. Over 160 million AMHRR/OMPF documents in iPERMS support the Active Army, Army Reserve, and Army National Guard personnel functions at all command levels and are available to the individual Soldier via web access. Currently, 6.7 million personnel files are supported by iPERMS and the number of files increases each year; the system also supports other activities such as the Department of Veteran Affairs, Department of Labor, and Federal, State, and local Law Enforcement agencies. The iPERMS will interface directly with, but not be subsumed by, the Integrated Personnel and Pay System-Army (IPPS-A). This program is linked to RDTE Program Element 0665013A, Project Number T05, Project Title Army Business System Modernization Initiatives.

STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000):
LOGISTICS TECHNOLOGY ASSESSMENT (LTA): LTA invests in innovative information technology solutions that improve Army logistics processes by reducing demand and/or creating logistics efficiencies. LTA procures GOTS/COTS products and integrates them in a field-based system of systems assessment environment for use and implementation planning. Solutions include mobile applications to automate the capture and processing of fuel and ammunition consumption and delivery, mobile and head-worn devices to automate maintenance operations, and Condition Based Maintenance (CBM) solutions that wirelessly transmit health and usage data off of Army platforms. LTA will ensure that targeted tactical solutions interoperate with the logistics applications maintained at Army Data Centers, such as the Army's Enterprise Resources Planning (ERP) environment, and that they communicate over standard Army Networks. This program directly supports Army Operating Concept requirements to create logistics efficiencies and reduce demand, thus enabling the Army to maintain equipment readiness with reduced logistics footprint and costs.

HQ MANAGEMENT INFORMATION SYSTEMS (BE4161):
HEADQUARTERS, DEPARTMENT OF THE ARMY AUTOMATED DATA PROCESSING EQUIPMENT (HQDA ADPE): The HQDA ADPE provides the Headquarters Enterprise Network (HEN) end user computing, application, and Video Teleconferencing environments. The HEN supports more than 14,000 users in over 80 Army directorates and agencies in the Pentagon and National Capital Region including both classified and unclassified end user device support. Systems provide the back-end server and data storage to support the virtualized desktop as a service infrastructure. This converged and virtualized platform enables Army to avoid costly maintenance of individual desktops by deploying a reduced number of disparate user images directly from the server for better management of security patching, improved software license and version control, and ability of HQDA staff to work from remote locations. The HEN also supports Internet Protocol(IP)-based Video Teleconferencing (VTC) systems, which offer a significant improvement in reliability and availability for remote collaboration. The robust IP-based VTC environment helps eliminate costly dedicated Integrated Services Digital Network (ISDN) lines and unreliable ISDN-based systems, and also enables a significant reduction in local and temporary duty travel costs.

PENTAGON INFORMATION TECHNOLOGY INFRASTRUCTURE (PITI): The PITI provides network transport for all Services and Agencies in the Pentagon at all security classification levels. This program includes comprehensive network security, computer network defense, and intrusion detection at the DoD Information Networks Pentagon edge. It also provides the Pentagon Installation Processing Node (IPN) with full spectrum computing and data management, data storage, replication, recovery, and back-up. The PITI also provides the organizational messaging node for DoD and replaces existing firewalls with the joint computer network defense architecture for the Pentagon node. Life Cycle Replacement of the Pentagon's core network infrastructure is critical; it replaces aging equipment from the Pentagon infrastructure renovation 6 to 10 years ago and will minimize the risk for increased occurrences/ durations of widespread network outages and higher maintenance costs. The program also provides the capacity needed

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | |
| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
| Line Item MDAP/MAIS Code: N/A | | |

to meet the Joint Information Environment bandwidth requirements based on the virtualization and continuing alignment of Enterprise services at DoD Core Data Centers. Beginning in FY 2017 PITI funds were realigned from Standard Study Number BE4161, HQ Management Information Systems, to B01002, ITA Resources, for more efficient, effective program management in accordance with the Information Technology Agency (ITA) transition to the Joint Information Technology Service Provider Pentagon.

STRATEGIC COMMAND CENTERS (SCC): The SCC provides core Command, Control, Communications, and Computers (C4) infrastructure for Joint, Coalition and Interagency C4 capabilities at Army and Army supported command centers. These include European Command (EUCOM), US Africa Command (AFRICOM), US Forces Korea (USFK), Joint Special Operations Command (JSOC), Southern Command (SOUTHCOM), HQDA Army Operations Center (AOC), and the Alternate National Military Command Center (ANMCC)-Site R. Specifically, SCC provides resources for Army supported Combatant Commander (COCOM) C4 infrastructure in support of other IT programs of record (POR) such as the Global Command and Control System (GCCS) Family of Systems (FoS). The SCC provides core C4 infrastructure for Joint and COCOM sites to include system and technical facilities, Protected Distribution Systems, and site preparation for other support equipment such as Video Teleconference (VTC), data, voice, displays, audio-visual equipment, cabling, and lighting. This infrastructure supports COCOM requirements for Command and Control (C2) operations and worldwide Information Assurance and Security Assistance. These sites are designated as key National Military Command System (NMCS) Command Centers and are required to operate 24 hours a day/7 days a week.

U.S. FORCES KOREA (USFK) HEADQUARTERS (HQ) COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS AND INFORMATION TECHNOLOGY (C4IT): The USFK HQ C4IT network provides the end user computing and application environments for USFK. It supports users at Yongsan, Camp Humphreys, and other sites on peninsula, with both classified and unclassified computing capabilities for US and alliance forces. Systems and services include information assurance and security to further automate infrastructure scanning and patching to identify security vulnerabilities, take corrective actions, and investigate security incidents. These networks support US and Alliance planning and C4 tools such as Theater Operational Planning Assessment System (TOPAS) and Theater Effects Base Operations (TEBO). These tools provide vital support to the theater's battle Command and Control capabilities by projecting and evaluating effects of Theater Operations in order to shape strategy, battle plans, and contingency operations on peninsula. Tools provide advanced concept technology demonstration as well as communications, computing and intelligence capabilities, tailored to peninsula operational requirements. Network infrastructure supports capabilities to include Directory, File, Print, and Web server processing; storage and switching; data replication for Continuity of Operations Planning (COOP), data recovery, and improved capacity for basic store and retrieve capabilities.

3RD ARMY VIDEO TELECONFERENCE (VTC)/VOICE CROSS DOMAIN AND VTC BRIDGE: Provides VTC capability in support of 3rd Army Operation Inherent Resolve (OIR) operations. System will provide theater-specific equipment consisting of a VTC Cross Domain capability that will provide highly reliable, secure video and VTC capabilities for US and Coalition Partner Nation commanders and senior leaders for the Combined Joint Task Force (CJTF)-OIR. The intent is to link multiple classified enclaves and/or sites into one VTC Session to support, in real time, the CJTF's operational needs and enhance Mission Command with a Voice and Video Cross Domain Solution (V2CDS). System provides a bridge solution or Multi-point Control Unit (MCU) capable of, at minimum, 100 endpoints. It also modernizes 30 existing VTC suites in the CJTF staff directorates to be compatible with new system for optimal VTC service and performance.

U.S. ARMY FORCES COMMAND (FORSCOM) HEADQUARTERS MISSION COMMAND SYSTEM (FMCS): Mission Command capability support provides the FORSCOM Commander with the ability to perform Command & Control, have situational awareness, and collaboration to accomplish the training mission and ready Operating Forces for deployment. This includes the provisioning of the ARFORGEN Synchronization Tool (AST), that coordinates and tracks Operating Forces, training, Readiness, and deployments across the Army; the Army Training Information Management System (ARTIMS), an online service/database of record for all Overseas Deployment Training (ODT); the Deployment & Reconstitution Tracking Systems (DARTS), that receives personnel and unit data from a variety of Army information systems, including the Reserve Component Automated System (RCAS), Medical Protection System (MEDPROS), Electronic Military Personnel Office (eMILPO); the Department of the Army Mobilization & Processing System (DAMPS) for coordinating deployments and reconstitution of Operating Forces; the Computerized Movement Planning and Status System (COMPASS), a system that supports collaboration of Unit Movement Data (UMD), Bulk Load Process (BLP), Reference Data, Equipment Characteristics Data (ECD), and Army Type Unit Characteristics (TUCHA) Cargo Generator; the Force & Asset Search Tool (FAAST) is a database driven website (Business Intelligence/Reporting data mining) that assists Commanders, Property Book Officers, Supply Clerks and Command Asset Managers with the management of Class VII Property Book accountable items at multiple levels; the FORSCOM SharePoint Portal is used for extensive collaboration within FORSCOM HQs on both SIPR and NIPR; the Personnel Verification Systems (PVS) is used for collecting and storing personal contact information from the FORSCOM workforce for emergency or urgent situations; the Tasker Management Tool (TMT) manages taskers, coordinates work by action officers both internal and external to FORSCOM HQ; and Video Teleconferencing operations.

MACOM AUTOMATION SYSTEMS (BE4162):
ARMY COMPUTING INFRASTRUCTURE (ACI): The ACI resources equipment that provides for Joint Information Environment (JIE)-defined Installation Service Nodes (ISNs) at Army installations in the Continental United States (CONUS) and Outside Continental United States (OCONUS). The infrastructure that ACI procures is comprised of the Network Operations tools, ancillary equipment, and software

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

vital to standardizing, managing, maintaining, and securing local ISNs and networks in a Common Operating Environment. This program supports the ongoing Army Data Center Consolidation Program (ADCCP), which is an approved data center/Information Technology (IT) inventory reduction and standardization program sanctioned by Army governance bodies in accordance with Federal and DoD CIO guidelines. The ACI also supports the Army Home Station Mission Command Center (HSMCC) program to ensure that Corps, Division, and theater-level Army headquarters have the appropriate and secure Video Teleconferencing (VTC) equipment to conduct Mission Command (MC) during all phases of operations. It leverages available network assets while preserving expensive satellite air time during periods of normal home-station operations and advances the level of service for vital Command and Control (C2) video communications. In addition, these enduring MC centers require common, standardized, and fixed operational capabilities that enable reach back and forward support, tactical MC suite availability, coalition communications, training, logistics, and lifecycle support.

BATTLE LAB COLLABORATIVE SIMULATION ENVIRONMENT (BLCSE): The BLCSE is a deliberate program for developing and evaluating new warfighting concepts and capabilities prior to committing resources. The principal method used by BLCSE is experimentation, placing Soldiers and Leaders in situations representing complex future operational environments. The BLCSE uses approved scenarios, authoritative performance data, and validated simulations to ensure quantifiable, efficient analyses to help validate concepts and to support Army decisions. BLCSE is a federation of constructive simulations, mission command systems, infrastructure, network, collaborative tools, certified common scenarios, and authoritative system performance data on a persistent network supporting over 20 sites permanently with the ability to connect to other sites, to include OCONUS sites, based on mission requirements. It currently has two separate network enclaves: secret and secret releasable Five Eyes. BLCSE is not a stand-alone capability, but an integrated and distributed simulation capability that enables multi-echelon, integrated experiments in support of Army Experimentation by immersing leaders and soldiers in the future Operational Environment. The BLCSE provides substantial cost avoidance by providing an enterprise solution that consolidates network capabilities while reducing travel, shipping, equipment, and facility costs required to support the Army Experimentation Program. The BLCSE network will be a key enabler as part of the Army Experimentation of Force 2025 Maneuvers in developing the concepts that will ultimately lead to the determination and fielding of the required capabilities to deliver Force 2025 and Beyond.

US ARMY TRAINING AND DOCTRINE COMMAND (TRADOC) INSTITUTIONAL ARMY BATTLE COMMAND SYSTEM (ABCS) TRAINING BASE (TIABCSTB): The Army approved Mission Command Training Strategy (MCTS) is focused at the Doctrine, Organization, Training, Material, Leadership and Education, Personnel, and Facilities (DOTMLPF) implication of the Army Battle Command Systems (ABCS) which are the principal digital Command and Control (C2) system for battlefield commanders from battalion to corps. The ABCS consists of the Global Command and Control System Army (GCCS-A), Advanced Field Artillery Tactical Data System (AFATDS), All Source Analysis System (ASAS), Battle Command Sustainment Support System (BCS3), Army Missile Defense Warning System (AMDWS), Maneuver Control System (MCS), Force XXI Battle Command Brigade and Below (FBCB2), and Tactical Airspace Information System (TAIS). This program enables commanders, battle staff, and Soldiers to exploit new digital command and control capabilities on the battlefield. The institutional Battle Command Training and Distributed System (BCT&DS) is integral to the MCTS while supporting the operational forces Active Army, National Guard, and Army Reserve digital training requirements in real time within a networked Army Battle Command (ABC) learning environment. It is designed, developed, and engineered to support institutional operational adaptation. It enables the TRADOC institutional training domain to accomplish 24 hours a day/7 days a week training in support of the Army Campaign Plan. This infrastructure can demonstrate and exercise digital battle command and staff functions, integrate live, virtual, constructive multi-media educational assets, and conduct robust individual and collective training events exercises. The BCT&DS is a subset of the institutional Mission Command Art & Sciences Program (MCASP) and supports the Army Mission Command Training Strategy. This BCT&DS capability is provided at specified TRADOC schools.

ARMY TRAINING INFORMATION ARCHITECTURE (ATIA): The ATIA infrastructure provides the operational environment supporting the Army's learning management systems, the Central Army Registry (CAR), Training Development Capability (TDC), and system interfaces to the Army Training Requirements and Resources System (ATRRS). These systems are the official repository of Army training products and services in accordance with Army Regulation 25-30 and TRADOC Regulation 350-70. The ATIA facilitates mission information infrastructure critical to all Army training development and management. It is used by over 480,000 Active, Guard, and Reserve Soldiers and trainers in residence and is available to deployed Soldiers via distance learning.

ARMY TRAINING INFORMATION SYSTEM (ATIS): The ATIS will provide a common operational picture (COP) of the training environment through integrated, interoperable training development, management, scheduling, and delivery capabilities. Existing training information systems do not provide Commanders, leaders, Soldiers, and civilians a centralized COP of the training environment that enables persistent, consistent access to the Training and Education information and products necessary to support readiness to meet emerging threats. Without ATIS, Army organizations will continue to develop and maintain a multitude of training information systems that are not part of an enterprise, thus inhibiting visualization, understanding, and informed decision making.

ACADEMIC NETWORK VIRTUALIZATION (ANV): The Defense Language Institute Foreign Language Center (DLIFLC) academic network provides high-speed access to authentic language materials accelerating language acquisition for DoD linguists. The network provides virtualized desktop capability on mobile computing platforms to improve efficiency and security. The ANV leverages mobile computing technology to improve time on task for the DLIFLC student population. The DLIFLC has directly correlated both the speed of language acquisition and proficiency levels reached by students to the amount

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| Line Item MDAP/MAIS Code: N/A | | |

of exposure students have to authentic language content. The intent is to recapitalize the investment to ensure the continued functionality of the current mobile technology fleet by delivering virtual desktop capability through the student mobile devices. This will be accomplished through the replacement of end-of-life equipment to provide better virtual learning opportunities to the total force through immersive training events delivered via the web and mobile applications as well as language training detachments.

PERSISTENT TRAINING ENVIRONMENT (PTE) CYBER RANGE: The United States Army Cyber School Virtual Training Area (CSVTA) provides global, always-on access for members of the Cyber Mission Force to hone individual skills in their own time on their own terms. It provides a safe, sandboxed environment that prevents inadvertent damage to the Department of Defense Information Network as a result of training and experimentation. The CSVTA also supports official courseware and provides for rapid changes and near-limitless scalability at a dramatically lower cost than traditional contracted Cyber Ranges. The CSVTA was developed entirely by uniformed personnel using free and open-source commercial tools and commodity hardware, which prevents vendor lock-in and maximizes the utility of increasingly-limited resources. Instead of requiring a large team of IT personnel to manage, update, and maintain, the CSVTA can be run by a very small, competent team and be grown without practical limit to support new requirements of the Cyber Mission Force at a cost comparable to large public cloud providers.

U.S. AFRICA COMMAND (AFRICOM) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The AFRICOM HQ ADPE provides the end user computing services and application environments for AFRICOM. It supports users at Kelly Barracks, Germany, and Molesworth, United Kingdom, with both classified and unclassified computing capabilities as well as the hardware supporting these services within the various AFRICOM offices. The systems and services include cyber protection and physical security measures to further automate infrastructure scanning and patching to identify security vulnerabilities, investigate security incidents, and take corrective actions. It provides unified communications servers integrating voice, teleconferencing, video teleconferencing, collaboration, and messaging services to enhance mission success throughout the area of operation. The video infrastructure supports increasing requirements for high definition video. It provides centralized management and control of physical and virtual servers to enhance computing capabilities and reduce the physical footprint of the hardware infrastructure that supports directory, file, and print services; web servers processing; storage and switching; data replication for Continuity of Operations Planning (COOP); and data recovery.

ARMY ONE SOURCE (AOS): The AOS portal, located at www.myarmyonesource.com, compiles important, credible, up-to-date information in a single location for Army Soldiers and Family members to access at any time of day, regardless of component or physical location. It is the public face of the HQDA Family Programs and serves as the official portal to Army Families worldwide. It organizes articles, videos and resources in the following major categories: Family Programs and Services; Healthcare; Soldier and Family Housing; Child, Youth and School Services; Education, Careers and Libraries; Recreation, Travel, and Better Opportunity for Single Soldiers (BOSS); and Communities and Marketplace. It is also a tool that is used by Army Community Service staff members for recordkeeping as well as a commander's tool to communicate in a virtual Family Readiness Group.

THE JUDGE ADVOCATE GENERAL'S LEGAL CENTER AND SCHOOL (TJAGLCS) INFRASTRUCTURE: The Judge Advocate General's Legal Center & School (TJAGLCS) trains over 6,000 students annually. The existing visual information systems in the Decker Auditorium is over 25 years old and at high risk for system failure. The outdated technology severely impedes the instructional capabilities of TJAGLCS's staff and faculty in both resident and Distributed Learning courses. The new system will replace outdated analog equipment with more reliable digital equipment in Decker Auditorium and classrooms.

COMBINED OPERATIONS AND INTELLIGENCE CENTER (COIC) WALL ENGINE REPLACEMENT. The COIC wall supports Operation Inherent Resolve (OIR) at the ARCENT Operations Center, Camp Arifjan. The COIC wall provides 24 hours a day/7 days a week situational awareness of theater assets to include ARCENT, subordinate Army/land force units in the ARCENT Area of Responsibility, Special Operations Forces, and air assets supporting or supplementing air operations. It monitors feeds from Top Secret/Sensitive Compartmented Information down to coalition secure information feeds (secure networks). Information is displayed graphically, including a Common Operating Picture, and can support live video/secure video teleconference feeds.

U.S. SOUTHERN COMMAND (USSOUTHCOM) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The USSOUTHCOM HQ ADPE provides the end user computing services and application environments for USSOUTHCOM. It supports users at the United States Army Garrison – Miami (USAG-M) in Doral, Florida, and Security Cooperation Offices (SCO) co-located with U.S. Embassies throughout the USSOUTHCOM area of responsibility (AOR) with both classified and unclassified computing capabilities as well as the hardware supporting these services within the USSOUTHCOM HQ. The systems and services include cyber protection to further automate infrastructure scanning and patching to identify security vulnerabilities, investigate security incidents, and take corrective actions. The program provides unified communications servers integrating voice, teleconferencing, video teleconferencing, collaboration, and messaging services to enhance mission success throughout the USSOUTHCOM AOR. It provides centralized management and control of physical and virtual servers to enhance computing capabilities and reduce the physical footprint of the hardware infrastructure that supports directory, file, and print services; web server processing; storage and switching; data replication for Continuity of Operations Planning (COOP); and data recovery.

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U.S. ARMY PACIFIC (USARPAC) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The USARPAC HQ ADPE provides technical refresh of USARPAC Major Subordinate Command (MSC) Centers at U.S. Army Japan and U.S. Army Alaska. It brings the information technology infrastructure into regulatory compliance and modernizes the current information technology services and audio visual systems. These command centers enable the MSC Commander's ability to effectively conduct Mission Command of multiple units operating within the Pacific area of responsibility and will ensure compatibility with Home Station Mission Command Center standards.

ARMY KNOWLEDGE ONLINE (AKO): As the Army's Enterprise Portal and Army Intranet service provider, AKO is the centerpiece of the Army's Knowledge Management (AKM) strategy and supports the Army Campaign Plan. AKO Forward, a subset of AKO services, is designed to reduce response times for Soldiers on the edge of the Army's network (South West Asia, Europe and Pacific). AKO and AKO-Secret provide enterprise services (Single Sign-On (SSO) user authentication, global web-based collaboration, community pages, shared files and storage) for Army military, civilian, and retiree populations.

PERSONNEL AUTOMATION SYSTEMS (BE4164):
PERSONNEL ENTERPRISE SUPPORT-AUTOMATION (PES-A): The PES-A is an Information Technology (IT) Enterprise infrastructure acquisition program that provides integrated support to the Army Human Resources (HR) community. This program is critical to the execution of the day-to-day operations for the Active Army and its components in terms of strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization. The PES-A provides the hardware, network, and connectivity capabilities that serve as the technical foundation for core Army HR systems, applications, and services supporting the Warfighter. These systems include the Enlisted, Officer, and General Officer Selection Boards, the Soldier's Management System (SMS), the Wounded Warrior System, and the Defense Casualty Information Processing System (DCIPS). The PES-A supports the readiness and well-being of Army personnel enabling efficient and effective management of Soldiers world-wide. This integrated infrastructure serves as the backbone for applications to ensure that crucial data and information is available at all times to Soldiers, Army Leaders, the Department of Defense, and ultimately, Congress.

UNITED STATES MILITARY ENTRANCE PROCESSING COMMAND (USMEPCOM) INTEGRATED RESOURCE SYSTEM (USMIRS): The USMIRS provides the automation and communications capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Department of Defense (DoD). The USMIRS is used at 65 Military Entrance Processing Stations (MEPS) and approximately 365 Military Entrance Test (MET) sites throughout the US and its territories. The USMIRS is the only official DoD joint accession resource system that processes applicants for enlistment into all Services. It collects, stores, edits, processes, and reports applicant and enlistment data on every US Military applicant to determine their aptitude, medical, and past conduct qualifications for service. The USMIRS interfaces with the Social Security Administration, the United States Citizen and Immigration Service, the Federal Bureau of Investigation through the Office of Personnel Management, commercial and DoD drug laboratories, the recruiting services, the Defense Manpower Data Center, and many other DoD systems. The USMIRS processes approximately 926.8 thousand individual records annually through its Data Services. This program is linked to RDTE Program Element 0655013A, Project Number T04, Project Title USMEPCOM Transformation – IT Modernization.

ARMY CENTRALIZED CIVILIAN HUMAN RESOURCES (ACCHR): The ACCHR supports Army-unique interfaces with the Defense Civilian Personnel Database System (DCPDS), which is the Human Resources (HR) system of record for the entire DoD civilian workforce. The DCPDS provides civilian employees access to the My Biz/My Workplace applications, HR professionals and supervisors worldwide secure access to Army Civilian Personnel information, and trains/deploys civilian employees in theater in support of the Warfighter. The Army Component instance of DCPDS migrated to the Defense Information Systems Agency Defense Enterprise Computing Center in Denver, Colorado, in 2014, but the requirement for lifecycle replacement of workstations and printers to access the DCPDS data from Army Civilian Personnel Advisory Centers (CPACs) and Civilian Human Resources Agency (CHRA) regions remains with the Army. Other enduring Army-unique requirements include life cycle replacement of scanners for input of Civilian Official Personnel File documents into Office of Personnel Management (OPM) Electronic Official Personnel Folder (eOPF) system and automation of the Extract, Transform and Load (ETL) process used to manage the flow of data obtained from DCPDS to Army-unique Civilian HR (CHR) applications such as the Civilian Personnel Online (CPOL) portal and the Fully Automated System for Classification (FASCLASS).

ARMY ACCESSIONING-INTEGRATED AUTOMATION ARCHITECTURE (AA-IAA): The AA-IAA encompasses the entire automation support for the Army recruiting, accessioning, and Reserve Officers' Training Corps commissioning missions, which satisfy Army manning and force strength requirements supporting the Warfighter. The AA-IAA serves as an enabler for Total Army recruiting [Active, Reserve, and Army National Guard (ARNG)], in the public, educational, and commercial sectors, where the accessioning force and future force reside while exchanging data with Army and Department of Defense (DoD) automated personnel systems. The AA-IAA provides essential automation capabilities to field recruiters, special mission recruiters, and guidance counselors for the Regular Army, Reserves, and ARNG. It reduces administrative tasks while providing essential data on applicants and newly enlisted Soldiers to leadership. The AA-IAA facilitates responses to changes from Office of the Secretary of Defense and Department of the Army concerning accessioning business processes. Operationally it captures applicant information and supports electronic projection of that data and supporting documents. It also provides Continuity of

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Operations and disaster recovery for Primary Mission Essential Function applications and databases. It maintains historical production data, produces management reports, supports the presentation of Army opportunities, and is the sole information source for delivering leads to recruiters. The AA-IAA also provides the overarching support structure for cyber recruiting and applicant self-processing.

KEYSTONE: KEYSTONE is an interactive, on-line automated personnel system which supports all components (Active, Reserve, and National Guard) of the Army. It provides critical support to accession, training, re-enlistment and assignment processes in peace and war. It supports over 20,000 users worldwide, tracks over 300,000 training seats and maintains military occupational specialty (MOS) skill qualifications, enlistment programs, and assignment/enlistment guarantees. It maintains historical production data, produces management reports, supports the presentation of Army opportunities, is a source for delivering leads to recruiters, and is the sole information source of reclassification for career counselors. KEYSTONE also provides Continuity of Operations and disaster recovery for Primary Mission Essential Function applications and databases. KEYSTONE systems have a direct and visible impact on the Total Army's Personnel End Strength. This program is linked to RDTE Program Element 0665013A, Project Number T05, Project Title Army Business System Modernization Initiatives.

SOLDER FOR LIFE-TRANSITION ASSISTANCE PROGRAM XXI (SFL-TAP XXI): The Transition Assistance Program (TAP-XXI) application provides an interactive, multimedia approach to pre-separation counseling and job assistance training. This application uses full motion video, graphics, and sound to train clients; and schedules clients for classroom-type instruction. It integrates a complete range of transition services and benefits for Soldiers, Department of Army civilian employees, and their family members as they transition from the military. TAP-XXI is a web-based, three-tiered application with a centralized database for all Transition sites. The user interface is browser-based, the application is based on a storefront intranet model to provide access from within Transition centers. There is no application processing on the desktops located at Transition Centers. TAP-XXI application suite consists of the following subsystems: Transition Assistance Program - Support (TAP-Support), Transition Assistance Program -Online (TAP-Online) and TAP Virtual (Immersive Terf). The infrastructure modernization will provide system stability, support expansion requirements, and ensure reliable customer support.

U.S. EUROPEAN COMMAND (EUCOM) HEADQUARTERS (HQ) AUTOMATED DATA PROCESSING EQUIPMENT (ADPE): The EUCOM HQ ADPE provides the end user computing services and application environments for EUCOM. The systems and services include cyber protection to further automate infrastructure scanning and patching to identify security vulnerabilities, investigate security incidents, and take corrective actions. The program provides unified communications servers integrating voice, teleconferencing, video teleconferencing, collaboration, and messaging services to enhance mission success throughout the EUCOM AOR. It provides centralized management and control of physical and virtual servers to enhance computing capabilities and reduce the physical footprint of the hardware infrastructure that supports directory, file, and print services; web server processing; storage and switching; data replication for Continuity of Operations Planning (COOP); and data recovery.

PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175):
US MILITARY ACADEMY (USMA) INFORMATION TECHNOLOGY (IT): The USMA is an accredited institution of higher learning graduating approximately 1,100 Second Lieutenants to support the Army each year. The USMA IT sustains the mission of the Academy as it maintains pace with Army transformation, remains a competitive Tier 1 university, and supports 4,400 Cadets in accordance with Title 10 USC 4342. Many non-DoD affiliations affect USMA IT mission requirements, specifically, the Accreditation Board of Engineering and Technology (ABET), Middle States Accreditation Board, and Computer Science Accreditation Board (CSAB). These accreditation efforts look at future plans for IT. To maintain its accreditation standards and to instruct and prepare future Army leaders to operate in the sophisticated high-tech warfare of Joint and Army Visions for 2020 and beyond, USMA must employ technology unique to the cadet education and development mission in spaces where cadets, staff, and faculty congregate and collaborate to include cadet barracks, administrative buildings, academic classrooms, and laboratories. The USMA IT is essential to every aspect of education, training, and Command and Control (C2) of the USMA and West Point Garrison. The USMA IT procurement directly supports the Army's core competency to train and equip Soldiers and to grow and develop our future leaders. In 2016, USMA IT funds were realigned from Standard Study Number BE4164, Personnel Automation Systems, to BE4175, Personnel Automation Systems-West Point, for more efficient, effective program management.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 110.835 | 145.490 | 91.983 | - | 91.983 | 108.577 | 161.278 | 122.681 | 145.313 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **110.835** | **145.490** | **91.983** | **-** | **91.983** | **108.577** | **161.278** | **122.681** | **145.313** |

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**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B01002 / ITA Resources | P-5a | | | - / - | - / - | - / 41.219 | - / - | - / - | - / - |
| P-5 | B33010 / ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP) | | | | - / 12.573 | - / - | - / - | - / - | - / - | - / - |
| P-5 | BD3956 / OPTICAL DIGITAL EQUIP | P-5a | | | - / 98.152 | - / 0.813 | - / 2.103 | - / 1.347 | - / - | - / 1.347 |
| P-5 | BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP) | P-5a | | | - / 382.832 | - / 0.905 | - / 0.992 | - / 0.751 | - / - | - / 0.751 |
| P-5 | BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS | P-5a | | | - / 848.753 | - / 48.191 | - / 21.556 | - / 23.317 | - / - | - / 23.317 |
| P-5 | BE4162 / MACOM AUTOMATION SYSTEMS | P-5a | | | - / 1,316.330 | - / 31.967 | - / 57.427 | - / 43.069 | - / - | - / 43.069 |
| P-5 | BE4164 / PERSONNEL AUTOMATION SYSTEMS | P-5a | | | - / 794.715 | - / 25.640 | - / 19.332 | - / 20.199 | - / - | - / 20.199 |
| P-5 | BE4175 / Personnel Automation Systems - West Point | P-5a | | | - / - | - / 3.319 | - / 2.861 | - / 3.300 | - / - | - / 3.300 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 3,453.355** | **- / 110.835** | **- / 145.490** | **- / 91.983** | **- / -** | **- / 91.983** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
ITA RESOURCES (B01002):
FY 2018 ITA Resources program transfers from the Army to DoD.

OPTICAL DIGITAL EQUIP (BD3956):
FY 2018 Base procurement dollars in the amount of $0.933 million support ARIMS infrastructure components to include servers, storage, routers, firewalls, and telecommunications equipment. These components are required to maintain ARIMS baseline and increase records storage capability, which is necessary for the capture of large volumes of Contingency Operations and official Army records. Technology refreshment will significantly improve research and response time in support of Veterans' Post-Traumatic Stress Disorder (PTSD) claims and Freedom of Information Act (FOIA) inquiries, reduce the data center foot print, and reduce overall maintenance costs.

FY 2018 Base procurement dollars in the amount of $0.414 million support initial iPERMS Enterprise Application Migration and life cycle replacement of hardware to include Network Area Storage, optical storage libraries, servers, system components, and related peripherals. Storage requirements grow with each year due to Army personnel records and the DoD/NARA requirement to maintain all personnel records for 62 years after separation of the individual service member. These procurements will enhance system stability, support expansion requirements, and ensure reliable customer support at all levels.

STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000):
FY 2018 Base procurement dollars in the amount of $0.751 million support LTA COTS/GOTS solutions that can be leveraged to create logistics efficiencies and reduce demand. These assets will be deployed at operationally relevant assessment environments to automate logistics supply, maintenance and distribution processes. Investments entail GOTS mobile devices and applications for fuel and ammunition distribution tracking; software to integrate automated feeds of fuel, ammunition and Class IX consumption/supply status into a common logistics portal; mechanics aids such as wearable technology (e.g. goggles) and augmented reality applications; and wireless communication devices to transmit the health/usage of assets to Army standard networks. FY18 funds will enable LTA to meet the objectives of the Deputy Chief of Staff G-4 to establish a connected logistics enterprise and establishes an enduring "sense and respond" logistics environment to identify opportunities to reduce Soldier touch points and decrease logistics demand through the integration of existing technologies.

HQ MANAGEMENT INFORMATION SYSTEMS (BE4161):

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FY 2018 Base procurement dollars in the amount of $2.330 million support HQDA ADPE replacement of aged Video Teleconferencing (VTC) systems. The VTC systems include high definition monitors, cameras, integrated microphones, and Internet Protocol-based connectivity. Funds also support HQDA staff elements such as the U.S. Army Combat Readiness Center (safety systems, audio visual, and training tools) and G-3 (audio visual and conference rooms) with life cycle replacement requirements.

FY 2018 Base procurement dollars for PITI IT transfer from Army to DoD.

FY 2018 Base procurement dollars in the amount of $7.774 million support global SCC requirements for systems engineering and installation of Command, Control, Communication, Computers (C4) infrastructure, hardware (hubs, servers, protected cable distribution systems, secure video teleconferencing systems, integration and monitoring equipment), software, and program management costs associated with the upgrades and modernization of integrated C4 capabilities and applications.

FY 2018 Base procurement dollars in the amount of $6.693 million support USFK HQ C4IT network requirements including Lifecycle Replacement of critical network support equipment (servers, switches, routers, etc.) for Theater Mission Command networks supporting the alliance.

FY 2018 Base procurement dollars in the amount of $6.520 million support FORSCOM Commander's Mission Command including Command and Control, developing situational awareness, and enhancing collaboration with life cycle replacement of outdated Storage Area Network (SANS) (storage), data back-up capability and application servers. Virtual servers are required to ensure systems are DoD and HQDA compliant, upgraded SANS will meet future storage requirements, and replacement of the data back-up systems will enable information to flow freely between users and the FORSCOM HQ Disaster Recovery Center (DRC).

FY 2018 3rd Army VTC has no Base or OCO procurement request.

MACOM AUTOMATION SYSTEMS (BE4162):
FY 2018 Base procurement dollars in the amount of $16.162 million support ACI procurement of Network Operations tools, ancillary equipment, and software required to achieve a common operating environment for Army ISNs. It also provides network management, security hardware/software, servers, VTC equipment, and display systems needed for C2 oversight of deployed formations for four HSMCC implementations.

FY2018 Base procurement dollars in the amount of $1.064 million support the BLCSE with routers, switches and video teleconferencing IT equipment.

FY2018 Base procurement dollars in the amount of $1.162 million support TIABCSTB infrastructure and control tools including servers, virtualization hardware, switches, and blade server kits.

FY2018 Base procurement dollars in the amount of $0.777 million support ATIA infrastructure to include Virtual Storage Area Network storage, virtual servers, and associated software for life cycle support of the existing infrastructure.

FY2018 Base procurement dollars in the amount of $4.557 million support ATIS infrastructure to include Virtual Storage Area Network storage, virtual servers, and associated software for life cycle support of the existing infrastructure.

FY2018 Base procurement dollars in the amount of $1.150 million support ANV with network equipment including servers, routers, switches, wireless access points, firewalls, Storage Area Network (SAN), and fiber optic cable.

FY2018 Base procurement dollars in the amount of $1.858 million support PTE CYBER Range with network equipment including switches, firewalls, and other related infrastructure.

FY 2018 Base procurement dollars in the amount of $4.375 million support AFRICOM ADPE network devices, storage, computer hardware, and power supplies. It also procures Ethernet switches, servers (database, application, and/or web), and computing capabilities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

FY2018 Base procurement dollars in the amount of $0.421 million support AOS hardware procurements.

FY2018 Base procurement dollars in the amount of $0.625 million support TJAGLCS infrastructure with replacement of visual information systems in the Decker Auditorium and classrooms. Funds enable life cycle replacement (LCR) of legacy analog videotape production equipment with modern digital video server-based systems. Procurements will replace old analog video cameras, production equipment, and projector displays with new digital camera systems and modular direct view organic light-emitting diode (OLED) digital video displays (video walls).

FY 2018 COIC Wall has no Base or OCO procurement request.

FY2018 Base procurement dollars in the amount of $3.000 million support SOUTHCOM ADPE network devices, computer hardware and procures audio/visual switches and displays as wells as storage.

FY2018 Base procurement dollars in the amount of $4.218 million support USARPAC ADPE Major Subordinate Command Center modernization, video teleconference systems, virtual desktop environment servers and storage, Internet Protocol (IP) telephony on all networks, Command Control Communications – Computers and Information Management (C4IM) systems, power metering for all IT and audio visual equipment, wireless intrusion detection/Army unclassified wireless systems, and enterprise unified capabilities.

FY2018 Base procurement dollars in the amount of $3.700 million support AKO Tech Refresh and will include 35 appliance upgrades for Search, Single Sign On (SSO), Network Oracle, and Monitoring.

PERSONNEL AUTOMATION SYSTEMS (BE4164):
FY 2018 Base procurement dollars in the amount of $8.252 million support PES-A initial start-up costs for Enterprise Application Migration and local application lifecycle replacement of the Human Resources Center of Excellence (HRCoE) Datacenter Information Technology (IT) infrastructure, to include: mainframe, server, network, backup/recovery, storage, telephony, and disaster recovery equipment.

FY 2018 Base procurement dollars in the amount of $6.521 million support USMIRS lifecycle of applicant testing workstations, servers, network, backup/recovery, storage, telephony equipment, disaster recovery, and other system components to maintain security and operational support for USMIRS and administrative systems. Items identified for replacement will have exceeded manufacturer or third-party support, product life, or are unable to meet mandated security and/or certification requirements. Approximately $6 million will procure hardware and software required to establish a Continuity of Operations capability for MIRS and its associated applicant processing applications.

FY 2018 Base procurement dollars in the amount of $1.829 million support ACCHR lifecycle replacement (LCR) of workstations and printers to access DCPDS workstations. These enduring requirements will reduce data processing errors, speed up data refresh cycles, and reduce the number of contracted support personnel to gain further efficiencies.

FY 2018 Base procurement dollars in the amount of $0.597 million support SFL-TAP XXI with additional infrastructure, to include servers and storage devices, to support the Commanders Reporting Requirement and the Terf Immersive Migration into the HRC Data Center. The addition of servers to the TAPXXI footprint will support increasing storage requirements and improve system response times.

FY2018 Base procurement dollars in the amount of $3.000 million support EUCOM ADPE network requirements including Lifecycle Replacement of critical network support equipment (servers, switches, routers, etc.) network devices, computer hardware and procures audio/visual switches and displays as wells as storage.

FY 2018 KEYSTONE has no Base or OCO procurement request.

PERSONNEL AUTOMATION SYSTEMS - WEST POINT (BE4175)
FY 2018 Base procurement dollars in the amount of $3.300 million support USMA IT academic audio/visual equipment and computing capabilities for academic facilities and computer lab infrastructure; modernization to DA standards of the Academy Management System (Enterprise Resource Planning (ERP) for grades and class scheduling); Academy Management System (AMS) Modernization - Phase I, Assessment of System and Critical Mission Functions; Distributed Antenna System (DAS) Phase III; Campus Wireless Expansion; Internet Content Filtering/Management System; Continuity of Operations Planning (COOP) services and storage; and the Defense Research and Engineering Network (DREN) network infrastructure.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:**<br>BD3000 / Automated Data Processing Equip | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: B01002 / ITA Resources |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 41.219 | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 41.219 | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **41.219** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| PITI Hardware(†) | - | - | - | - | - | - | 36,219.000 | 1 | 36.219 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *36.219* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***36.219*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| PITI Software(†) | - | - | - | - | - | - | 5,000.000 | 1 | 5.000 | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | *5.000* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Software Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***5.000*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **41.219** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | 41.219 | - | - | - |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **41.219** | **-** | **-** | **-** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: B01002 / ITA Resources |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PITI Hardware | | 2017 | TBS / TBS | C / FFP | TBS | Jun 2017 | Aug 2017 | 1 | 26,155.000 | Y | | |
| PITI Hardware - 2 | | 2017 | TBS / TBS | C / FFP | DISA/DITCO | Mar 2017 | Apr 2017 | 0 | 1,852.000 | Y | | |
| PITI Hardware - 3 | | 2017 | TBS / TBS | C / FFP | DISA/DITCO | Mar 2017 | Apr 2017 | 0 | 1,239.000 | Y | | |
| PITI Hardware - 4 | | 2017 | TBS / TBS | C / FFP | DISA/DITCO | Mar 2017 | Jun 2017 | 0 | 6,973.000 | Y | | |
| PITI Software | | 2017 | TBS / TBS | C / FFP | TBS | Jun 2017 | Aug 2017 | 1 | 5,000.000 | Y | | |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** B33010 / ARMY DATA CENTER CONSOLIDATION PROGRAM (ADCCP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 12.573 | - | - | - | - | - |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 12.573 | - | - | - | - | - |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **12.573** | **-** | **-** | **-** | **-** | **-** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Installation Processing Node HW | 4,173.000 | 1 | 4.173 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Network Operations Tools HW | 4,227.000 | 1 | 4.227 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *8.400* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Hardware Cost* | **-** | **-** | ***8.400*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Network Operations Tools SW | 4,173.000 | 1 | 4.173 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *4.173* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Software Cost* | **-** | **-** | ***4.173*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **12.573** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 98.152 | 0.813 | 2.103 | 1.347 | - | 1.347 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 98.152 | 0.813 | 2.103 | 1.347 | - | 1.347 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **98.152** | **0.813** | **2.103** | **1.347** | **-** | **1.347** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| (ARIMS)(†) | 10,118.000 | 1 | 10.118 | 813.000 | 1 | 0.813 | 1,354.000 | 1 | 1.354 | 933.000 | 1 | 0.933 | - | - | - | 933.000 | 1 | 0.933 |
| *Subtotal: Recurring Cost* | - | - | *10.118* | - | - | *0.813* | - | - | *1.354* | - | - | *0.933* | - | - | - | - | - | *0.933* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| (iPERMS)(†) | 88,034.000 | 1 | 88.034 | - | - | - | 749.000 | 1 | 0.749 | 414.000 | 1 | 0.414 | - | - | - | 414.000 | 1 | 0.414 |
| *Subtotal: Non Recurring Cost* | - | - | *88.034* | - | - | - | - | - | *0.749* | - | - | *0.414* | - | - | - | - | - | *0.414* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***98.152*** | **-** | **-** | ***0.813*** | **-** | **-** | ***2.103*** | **-** | **-** | ***1.347*** | **-** | **-** | **-** | **-** | **-** | ***1.347*** |
| **Gross/Weapon System Cost** | **-** | **-** | **98.152** | **-** | **-** | **0.813** | **-** | **-** | **2.103** | **-** | **-** | **1.347** | **-** | **-** | **-** | **-** | **-** | **1.347** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 0.813 | 2.103 | 1.347 | - | 1.347 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **0.813** | **2.103** | **1.347** | **-** | **1.347** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BD3956 / OPTICAL DIGITAL EQUIP |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (ARIMS) | | 2016 | World Wide Technology, Inc. / Maryland Heights, MO | C / FFP | ACC-NJ, Joint Base MDL, NJ | Aug 2016 | Aug 2016 | 1 | 636.000 | Y | | |
| (ARIMS) | | 2016 | TVAR Solutions LLC / McLean, VA | C / FFP | ACC-NJ, Joint Base MDL, NJ | Jun 2016 | Jun 2016 | 0 | 177.000 | Y | | |
| (ARIMS) | | 2017 | TBS / TBS | C / FFP | NAVAIR, Patuxent River, MD | Jun 2017 | Aug 2017 | 1 | 1,354.000 | N | | |
| (ARIMS) | | 2018 | TBS / TBS | C / FFP | NAVAIR, Patuxent River, MD | Jun 2018 | Aug 2018 | 1 | 933.000 | N | | |
| (iPERMS) | | 2017 | TBS / TBS | C / FFP | MICC, Ft. Knox, KY | May 2017 | Jul 2017 | 1 | 749.000 | N | | |
| (iPERMS) | | 2018 | TBS / TBS | C / FFP | MICC, Ft. Knox, KY | May 2018 | Jun 2018 | 1 | 414.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission and Installation Contracting Command; NAVAIR - U.S. Navy Naval Air Systems Command; ACC-NJ - Army Contracting Command-New Jersey; MDL - McGuire-Dix-Lakehurst

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP) |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 382.832 | 0.905 | 0.992 | 0.751 | - | 0.751 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 382.832 | 0.905 | 0.992 | 0.751 | - | 0.751 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **382.832** | **0.905** | **0.992** | **0.751** | **-** | **0.751** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Logistics Technology Assessment (LTA) HW(†) | 298,014.000 | 1 | 298.014 | 145.000 | 1 | 0.145 | 150.000 | 1 | 0.150 | 114.000 | 1 | 0.114 | - | - | - | 114.000 | 1 | 0.114 |
| *Subtotal: Non Recurring Cost* | - | - | *298.014* | - | - | *0.145* | - | - | *0.150* | - | - | *0.114* | - | - | - | - | - | *0.114* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***298.014*** | **-** | **-** | ***0.145*** | **-** | **-** | ***0.150*** | **-** | **-** | ***0.114*** | **-** | **-** | **-** | **-** | **-** | ***0.114*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Logistics Technology Assessment (LTA) SW(†) | 84,818.000 | 1 | 84.818 | 760.000 | 1 | 0.760 | 842.000 | 1 | 0.842 | 637.000 | 1 | 0.637 | - | - | - | 637.000 | 1 | 0.637 |
| *Subtotal: Non Recurring Cost* | - | - | *84.818* | - | - | *0.760* | - | - | *0.842* | - | - | *0.637* | - | - | - | - | - | *0.637* |
| *Subtotal: Software Cost* | **-** | **-** | ***84.818*** | **-** | **-** | ***0.760*** | **-** | **-** | ***0.842*** | **-** | **-** | ***0.637*** | **-** | **-** | **-** | **-** | **-** | ***0.637*** |
| **Gross/Weapon System Cost** | **-** | **-** | **382.832** | **-** | **-** | **0.905** | **-** | **-** | **0.992** | **-** | **-** | **0.751** | **-** | **-** | **-** | **-** | **-** | **0.751** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 0.905 | 0.992 | 0.751 | - | 0.751 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Total: Secondary Distribution | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 0.905 | 0.992 | 0.751 | - | 0.751 |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BD7000 / STRATEGIC LOGISTICS PROGRAM (SLP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Logistics Technology Assessment (LTA) HW | | 2016 | Hewlett Packard Enterprise Co / Herndon, VA | C / FP | Rock Island Arsenal, IL | Sep 2016 | Oct 2016 | 1 | 145.000 | Y | | |
| Logistics Technology Assessment (LTA) HW | | 2017 | TBS / TBS | C / FP | AMCOM EC, Huntsville, AL | Apr 2017 | Jun 2017 | 1 | 150.000 | N | | |
| Logistics Technology Assessment (LTA) HW | | 2018 | TBS / TBS | C / FP | AMCOM EC, Huntsville, AL | May 2018 | Jul 2018 | 1 | 114.000 | N | | |
| Logistics Technology Assessment (LTA) SW | | 2016 | Leidos / McLean, VA | C / FP | Redstone Arsenal, AL | Sep 2016 | Oct 2016 | 1 | 760.000 | Y | | |
| Logistics Technology Assessment (LTA) SW | | 2017 | TBS / TBS | C / FP | AMCOM EC, Huntsville, AL | Apr 2017 | Jun 2017 | 1 | 842.000 | N | | |
| Logistics Technology Assessment (LTA) SW | | 2018 | TBS / TBS | C / FP | AMCOM EC, Huntsville, AL | May 2018 | Jul 2018 | 1 | 637.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. AMCOM EC - Aviation & Missile Command Express Contracting.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 848.753 | 48.191 | 21.556 | 23.317 | - | 23.317 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 848.753 | 48.191 | 21.556 | 23.317 | - | 23.317 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **848.753** | **48.191** | **21.556** | **23.317** | **-** | **23.317** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| (HQDA ADPE) Hardware(†) | 29,125.000 | 1 | 29.125 | 2,000.000 | 1 | 2.000 | 2,000.000 | 1 | 2.000 | - | - | - | - | - | - | - | - | - |
| (PITI) Hardware(†) | 720,376.000 | 1 | 720.376 | 29,636.000 | 1 | 29.636 | - | - | - | - | - | - | - | - | - | - | - | - |
| (DCIN/PCIS) Hardware | 10,102.000 | 1 | 10.102 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SCC Hardware(†) | 11,877.000 | 1 | 11.877 | 6,438.000 | 1 | 6.438 | 6,434.000 | 1 | 6.434 | 6,394.000 | 1 | 6.394 | - | - | - | 6,394.000 | 1 | 6.394 |
| -Army Operations Center (AOC) (Pentagon) | 2,053.000 | 1 | 2.053 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| -Joint Special Operations Center (JSOC) | 843.000 | 1 | 0.843 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| USFK Hardware(†) | - | - | - | - | - | - | 1,490.000 | 1 | 1.490 | 6,693.000 | 1 | 6.693 | - | - | - | 6,693.000 | 1 | 6.693 |
| Domain and VTC Bridge | - | - | - | - | - | - | 9,900.000 | 1 | 9.900 | - | - | - | - | - | - | - | - | - |
| FORSCOM Hardware(†) | - | - | - | - | - | - | - | - | - | 6,520.000 | 1 | 6.520 | - | - | - | 6,520.000 | 1 | 6.520 |
| USAREUR Hardware | - | - | - | 652.000 | 1 | 0.652 | - | - | - | - | - | - | - | - | - | - | - | - |
| ARCENT Hardware | - | - | - | 2,661.000 | 1 | 2.661 | - | - | - | - | - | - | - | - | - | - | - | - |
| USACRC Hardware(†) | - | - | - | - | - | - | - | - | - | 1,505.000 | 1 | 1.505 | - | - | - | 1,505.000 | 1 | 1.505 |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| G3 Hardware(†) | - | - | - | - | - | - | - | - | - | 825.000 | 1 | 0.825 | - | - | - | 825.000 | 1 | 0.825 |
| *Subtotal: Non Recurring Cost* | - | - | *774.376* | - | - | *41.387* | - | - | *19.824* | - | - | *21.937* | - | - | - | - | - | *21.937* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***774.376*** | **-** | **-** | ***41.387*** | **-** | **-** | ***19.824*** | **-** | **-** | ***21.937*** | **-** | **-** | **-** | **-** | **-** | ***21.937*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| (HQDA ADPE) Software(†) | 2,334.000 | 1 | 2.334 | 661.000 | 1 | 0.661 | 479.000 | 1 | 0.479 | - | - | - | - | - | - | - | - | - |
| (PITI) Software(†) | 70,800.000 | 1 | 70.800 | 4,755.000 | 1 | 4.755 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | *73.134* | - | - | *5.416* | - | - | *0.479* | - | - | - | - | - | - | - | - | - |
| *Subtotal: Software Cost* | **-** | **-** | ***73.134*** | **-** | **-** | ***5.416*** | **-** | **-** | ***0.479*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Contractor Management(†) | 1,243.000 | 1 | 1.243 | 1,388.000 | 1 | 1.388 | 1,253.000 | 1 | 1.253 | 1,380.000 | 1 | 1.380 | - | - | - | 1,380.000 | 1 | 1.380 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | ***1.243*** | **-** | **-** | ***1.388*** | **-** | **-** | ***1.253*** | **-** | **-** | ***1.380*** | **-** | **-** | **-** | **-** | **-** | ***1.380*** |
| **Gross/Weapon System Cost** | **-** | **-** | **848.753** | **-** | **-** | **48.191** | **-** | **-** | **21.556** | **-** | **-** | **23.317** | **-** | **-** | **-** | **-** | **-** | **23.317** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 48.191 | 21.556 | 23.317 | - | 23.317 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **48.191** | **21.556** | **23.317** | **-** | **23.317** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (HQDA ADPE) Hardware | | 2016 | LGS Innovations / Herndon, VA | C / FFP | TBS | Apr 2016 | Jul 2016 | 1 | 2,000.000 | N | | |
| (PITI) Hardware | | 2016 | Norseman, Inc. / Elkridge, MD | C / FFP | DISA/DITCO, Scott AFB, IL | May 2016 | Jun 2016 | 1 | 354.000 | Y | | |
| (PITI) Hardware | | 2016 | Walker and Associates, Inc. / Welcome, NC | C / FFP | DISA/DITCO, Scott AFB, IL | Jul 2016 | Nov 2016 | 0 | 2,942.000 | Y | | |
| (PITI) Hardware | | 2016 | General Dynamics Info Tech / Fairfax, VA | C / FFP | ACC-RI, Rock Island, IL | Jun 2016 | Jun 2016 | 0 | 3,581.000 | Y | | |
| (PITI) Hardware | | 2016 | Defense Engineering, Inc. / Alexandria, VA | C / FFP | ACC-RI, Rock Island, IL | Mar 2016 | Mar 2016 | 0 | 7,378.000 | Y | | |
| (PITI) Hardware | | 2016 | VAE, Inc. / Reston, VA | C / FFP | DISA/DITCO, Scott AFB, IL | Aug 2016 | Sep 2016 | 0 | 1,392.000 | Y | | |
| (PITI) Hardware | | 2016 | Advanced Computer Concepts / McLean, VA | C / FFP | DISA/DITCO, Scott AFB, IL | Sep 2016 | Oct 2016 | 0 | 580.000 | Y | | |
| (PITI) Hardware | | 2016 | World Wide Technology, Inc / Maryland Heights, MO | C / FFP | DISA/DITCO, Scott AFB, IL | Sep 2016 | Dec 2016 | 0 | 2,479.000 | Y | | |
| (PITI) Hardware | | 2016 | TBS / TBS | C / FFP | DISA/DITCO, Scott AFB, IL | Jun 2017 | Jun 2017 | 0 | 2,039.000 | Y | | |
| (PITI) Hardware - 2 | | 2016 | TBS / TBS | C / FFP | GSA, Washington, DC | Jun 2017 | Jun 2017 | 0 | 8,014.000 | Y | | |
| (PITI) Hardware - 3 | | 2016 | TBS / TBS | C / FFP | NSA, Ft. Meade, MD | Jan 2017 | Jan 2017 | 0 | 877.000 | Y | | |
| SCC Hardware | | 2016 | LGS Innovations / Herndon, VA | C / FP | ACC-RI, Rock Island, IL | Oct 2015 | Oct 2015 | 1 | 1,201.000 | Y | | |
| SCC Hardware | | 2016 | TBS / TBS | C / FP | TBS | Mar 2016 | Jul 2016 | 0 | 5,237.000 | N | | |
| SCC Hardware | | 2017 | TBS / TBS | C / FP | TBS | Mar 2017 | Jun 2017 | 1 | 6,434.000 | N | | |
| SCC Hardware | | 2018 | TBS / TBS | C / FP | TBS | Mar 2018 | May 2018 | 1 | 6,394.000 | N | | |
| USFK Hardware | | 2017 | TBS / TBS | C / FFP | TBS | Apr 2017 | Jul 2017 | 1 | 1,490.000 | N | | |
| USFK Hardware | | 2018 | TBS / TBS | C / FFP | TBS | May 2018 | Jun 2018 | 1 | 6,693.000 | N | | |
| FORSCOM Hardware | | 2018 | TBS / TBS | C / FP | TBS | Apr 2018 | Jun 2018 | 1 | 6,520.000 | N | | |
| USACRC Hardware | | 2018 | TBS / TBS | C / FFP | TBS | Apr 2017 | Jun 2017 | 1 | 1,505.000 | | | |
| G3 Hardware | | 2018 | TBS / TBS | C / FFP | TBS | May 2017 | Jul 2017 | 1 | 825.000 | | | |
| (HQDA ADPE) Software | | 2016 | TBS / TBS | C / FFP | TBS | Apr 2016 | Jul 2016 | 1 | 661.000 | N | | |
| (HQDA ADPE) Software | | 2018 | TBS / TBS | C / FFP | TBS | Apr 2018 | Jun 2018 | 0 | 0.000 | N | | |
| (PITI) Software | | 2016 | Presidio Networked Solutions / Fulton, MD | C / FFP | DISA/DITCO, Scott AFB, IL | Jul 2016 | Jul 2016 | 1 | 308.000 | Y | | |
| (PITI) Software | | 2016 | Four LLC / Centreville, VA | C / FFP | DISA/DITCO, Scott AFB, IL | Sep 2016 | Sep 2016 | 0 | 2,670.000 | Y | | |
| (PITI) Software | | 2016 | TBS / TBS | C / FFP | DISA/DITCO, Scott AFB, IL | Jan 2017 | Jan 2017 | 0 | 1,777.000 | Y | | |

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4161 / HQ MANAGEMENT INFORMATION SYSTEMS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Contractor Management | | 2016 | PM I3C2 / Ft. Belvoir, VA | RO | PEO EIS, Ft. Belvoir, VA | Oct 2015 | Sep 2016 | 1 | 1,388.000 | N | | |
| Contractor Management | | 2017 | PM I3C2 / Ft. Belvoir, VA | RO | PEO EIS, Ft. Belvoir, VA | Oct 2016 | Sep 2017 | 1 | 1,253.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. ACC-RI - Army Contracting Command-Rock Island; PM I3C2 - Product Manager, Installation Information Infrastructure-Communications and Capabilities; PEO EIS - Program Executive Office, Enterprise Information Systems.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,316.330 | 31.967 | 57.427 | 43.069 | - | 43.069 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,316.330 | 31.967 | 57.427 | 43.069 | - | 43.069 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,316.330** | **31.967** | **57.427** | **43.069** | **-** | **43.069** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| (ATIA) Hardware(†) | 1,367.000 | 1 | 1.367 | 446.000 | 1 | 0.446 | 624.000 | 1 | 0.624 | 615.000 | 1 | 0.615 | - | - | - | 615.000 | 1 | 0.615 |
| (ANV) Hardware(†) | 2,600.000 | 1 | 2.600 | 1,528.000 | 1 | 1.528 | 1,112.000 | 1 | 1.112 | 1,150.000 | 1 | 1.150 | - | - | - | 1,150.000 | 1 | 1.150 |
| (AOS) Hardware(†) | - | - | - | - | - | - | 408.000 | 1 | 0.408 | 421.000 | 1 | 0.421 | - | - | - | 421.000 | 1 | 0.421 |
| (ATIS) Hardware(†) | - | - | - | - | - | - | - | - | - | 3,417.000 | 1 | 3.417 | - | - | - | 3,417.000 | 1 | 3.417 |
| NETCOM Hardware(†) | - | - | - | 1,671.000 | 1 | 1.671 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *3.967* | - | - | *3.645* | - | - | *2.144* | - | - | *5.603* | - | - | - | - | - | *5.603* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| (ACI) Army-wide Hardware(†) | 267,094.000 | 1 | 267.094 | 13,068.000 | 1 | 13.068 | 25,085.000 | 1 | 25.085 | 14,533.000 | 1 | 14.533 | - | - | - | 14,533.000 | 1 | 14.533 |
| (BLCSE) Hardware(†) | 10,074.000 | 1 | 10.074 | 1,426.000 | 1 | 1.426 | 1,439.000 | 1 | 1.439 | 1,064.000 | 1 | 1.064 | - | - | - | 1,064.000 | 1 | 1.064 |
| (TIABCSTB) Hardware(†) | 2,334.000 | 1 | 2.334 | 941.000 | 1 | 0.941 | 1,140.000 | 1 | 1.140 | 1,162.000 | 1 | 1.162 | - | - | - | 1,162.000 | 1 | 1.162 |
| (SPS) Hardware | 3,101.000 | 1 | 3.101 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (ALTESS) Hardware | 44,013.000 | 1 | 44.013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (AcqBiz) Hardware | 4,825.000 | 1 | 4.825 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (AFRICOM HQ ADPE) Hardware(†) | 485.000 | 1 | 0.485 | 4,402.000 | 1 | 4.402 | 4,369.000 | 1 | 4.369 | 4,375.000 | 1 | 4.375 | - | - | - | 4,375.000 | 1 | 4.375 |
| (KT) Hardware | 105,171.000 | 1 | 105.171 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| (DRSN) Hardware | 9,653.000 | 1 | 9.653 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (AKO) Refresh Hardware(†) | 71,534.000 | 1 | 71.534 | - | - | - | - | - | - | 3,700.000 | 1 | 3.700 | - | - | - | 3,700.000 | 1 | 3.700 |
| (EKR) Hardware | 1,570.000 | 1 | 1.570 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (TJAGLCS Infrastructure) Hardware(†) | - | - | - | 730.000 | 1 | 0.730 | 1,493.000 | 1 | 1.493 | 417.000 | 1 | 0.417 | - | - | - | 417.000 | 1 | 0.417 |
| Mission Command Facility (MCF) XVIII ABN Corp | 752.000 | 1 | 0.752 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| USSOUTHCOM Hardware(†) | - | - | - | - | - | - | - | - | - | 3,000.000 | 1 | 3.000 | - | - | - | 3,000.000 | 1 | 3.000 |
| PTE CYBER RANGE Hardware(†) | - | - | - | - | - | - | - | - | - | 1,858.000 | 1 | 1.858 | - | - | - | 1,858.000 | 1 | 1.858 |
| USARPAC Hardware(†) | - | - | - | 4,400.000 | 1 | 4.400 | - | - | - | 4,218.000 | 1 | 4.218 | - | - | - | 4,218.000 | 1 | 4.218 |
| MDW Hardware(†) | - | - | - | 350.000 | 1 | 0.350 | - | - | - | - | - | - | - | - | - | - | - | - |
| FORSCOM Hardware(†) | - | - | - | 1,198.000 | 1 | 1.198 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | *520.606* | - | - | *26.515* | - | - | *33.526* | - | - | *34.327* | - | - | - | - | - | *34.327* |
| ***Subtotal: Hardware Cost*** | **-** | **-** | ***524.573*** | **-** | **-** | ***30.160*** | **-** | **-** | ***35.670*** | **-** | **-** | ***39.930*** | **-** | **-** | **-** | **-** | **-** | ***39.930*** |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| (ACI) Army-wide Software | 730,844.000 | 1 | 730.844 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (ATIS) Software(†) | - | - | - | - | - | - | - | - | - | 911.000 | 1 | 0.911 | - | - | - | 911.000 | 1 | 0.911 |
| *Subtotal: Recurring Cost* | - | - | *730.844* | - | - | - | - | - | - | - | - | *0.911* | - | - | - | - | - | *0.911* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| (ACI) Army-wide Software(†) | 40,374.000 | 1 | 40.374 | - | - | - | 16,446.000 | 1 | 16.446 | - | - | - | - | - | - | - | - | - |
| (BLSCE) Software | 523.000 | 1 | 0.523 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (TIABCSTB) Software | 451.000 | 1 | 0.451 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (ATIA) Software(†) | 167.000 | 1 | 0.167 | 151.000 | 1 | 0.151 | 147.000 | 1 | 0.147 | 162.000 | 1 | 0.162 | - | - | - | 162.000 | 1 | 0.162 |
| (SPS) Software | 804.000 | 1 | 0.804 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** BE4162 / MACOM AUTOMATION SYSTEMS |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| (AcqBiz) Software | 710.000 | 1 | 0.710 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (ISM) Software | 835.000 | 1 | 0.835 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (KT) Software | 17,049.000 | 1 | 17.049 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (TJAGLCS Infrastructure) Software(†) | - | - | - | 350.000 | 1 | 0.350 | 498.000 | 1 | 0.498 | 208.000 | 1 | 0.208 | - | - | - | 208.000 | 1 | 0.208 |
| ATIS Software | - | - | - | - | - | - | - | - | - | 229.000 | 1 | 0.229 | - | - | - | 229.000 | 1 | 0.229 |
| *Subtotal: Non Recurring Cost* | - | - | *60.913* | - | - | *0.501* | - | - | *17.091* | - | - | *0.599* | - | - | - | - | - | *0.599* |
| *Subtotal: Software Cost* | **-** | **-** | ***791.757*** | **-** | **-** | ***0.501*** | **-** | **-** | ***17.091*** | **-** | **-** | ***1.510*** | **-** | **-** | **-** | **-** | **-** | ***1.510*** |
| Support - Program Management Cost | | | | | | | | | | | | | | | | | | |
| Contractor Management(†) | - | - | - | 1,306.000 | 1 | 1.306 | 4,666.000 | 1 | 4.666 | 1,629.000 | 1 | 1.629 | - | - | - | 1,629.000 | 1 | 1.629 |
| *Subtotal: Support - Program Management Cost* | **-** | **-** | **-** | **-** | **-** | ***1.306*** | **-** | **-** | ***4.666*** | **-** | **-** | ***1.629*** | **-** | **-** | **-** | **-** | **-** | ***1.629*** |
| **Gross/Weapon System Cost** | **-** | **-** | **1,316.330** | **-** | **-** | **31.967** | **-** | **-** | **57.427** | **-** | **-** | **43.069** | **-** | **-** | **-** | **-** | **-** | **43.069** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 31.967 | 57.427 | 43.069 | - | 43.069 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **31.967** | **57.427** | **43.069** | **-** | **43.069** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (ATIA) Hardware | | 2016 | TBS / TBS | C / FP | TBS | Jul 2016 | Sep 2016 | 1 | 446.000 | Y | | |
| (ATIA) Hardware | | 2017 | TBS / TBS | C / FP | TBS | Jul 2017 | Sep 2017 | 1 | 624.000 | N | | |
| (ATIA) Hardware | | 2018 | TBS / TBS | C / FP | TBS | Jul 2018 | Sep 2018 | 1 | 615.000 | N | | |
| (ANV) Hardware | | 2016 | TBS / TBS | C / FP | TBS | Feb 2016 | Mar 2016 | 1 | 1,528.000 | Y | | |
| (ANV) Hardware | | 2017 | TBS / TBS | C / FP | TBS | Jun 2017 | Aug 2017 | 1 | 1,112.000 | N | | |
| (ANV) Hardware | | 2018 | TBS / TBS | C / FP | TBS | Jun 2018 | Aug 2018 | 1 | 1,150.000 | N | | |
| (AOS) Hardware | | 2016 | TBS / TBS | C / FP | TBS | May 2016 | Sep 2016 | 0 | 0.000 | Y | | |
| (AOS) Hardware | | 2017 | TBS / TBS | C / FP | TBS | Apr 2017 | Jul 2017 | 1 | 408.000 | N | | |
| (AOS) Hardware | | 2018 | TBS / TBS | C / FP | TBS | Apr 2018 | Jul 2018 | 1 | 421.000 | N | | |
| (ATIS) Hardware | | 2018 | TBS / TBS | C / FP | TBS | Apr 2018 | Jul 2018 | 1 | 3,417.000 | N | | |
| NETCOM Hardware | | 2016 | TBS / TBS | C / FFP | TBS | Jan 2017 | Apr 2017 | 1 | 1,671.000 | Y | | |
| (ACI) Army-wide Hardware | | 2016 | TBS / TBS | C / FP | TBS | Mar 2016 | Apr 2016 | 1 | 13,068.000 | Y | | |
| (ACI) Army-wide Hardware | | 2017 | TBS / TBS | C / FP | TBS | Mar 2017 | Apr 2017 | 1 | 25,085.000 | N | | |
| (ACI) Army-wide Hardware | | 2018 | TBS / TBS | C / FP | TBS | Mar 2018 | Apr 2018 | 1 | 14,533.000 | N | | |
| (BLCSE) Hardware | | 2016 | TBS / TBS | C / FP | TBS | Feb 2016 | Mar 2016 | 1 | 1,426.000 | Y | | |
| (BLCSE) Hardware | | 2017 | TBS / TBS | C / FP | TBS | Jun 2017 | Aug 2017 | 1 | 1,439.000 | N | | |
| (BLCSE) Hardware | | 2018 | TBS / TBS | C / FP | TBS | Jun 2018 | Aug 2018 | 1 | 1,064.000 | N | | |
| (TIABCSTB) Hardware | | 2016 | TBS / TBS | SS / FP | MICC, Ft. Eustis, VA | May 2016 | Jun 2016 | 1 | 941.000 | Y | | |
| (TIABCSTB) Hardware | | 2017 | TBS / TBS | SS / FP | MICC, Ft. Eustis, VA | May 2017 | Jun 2017 | 1 | 1,140.000 | N | | |
| (TIABCSTB) Hardware | | 2018 | TBS / TBS | SS / FP | MICC, Ft. Eustis, VA | May 2018 | Jun 2018 | 1 | 1,162.000 | N | | |
| (AFRICOM HQ ADPE) Hardware | | 2016 | TBS / TBS | C / FP | TBS | Apr 2016 | Jul 2016 | 1 | 4,402.000 | Y | | |
| (AFRICOM HQ ADPE) Hardware | | 2017 | TBS / TBS | C / FP | TBS | Apr 2017 | Jul 2017 | 1 | 4,369.000 | N | | |
| (AFRICOM HQ ADPE) Hardware | | 2018 | TBS / TBS | C / FP | TBS | Apr 2018 | Jul 2018 | 1 | 4,375.000 | N | | |
| (AKO) Refresh Hardware | | 2018 | TBS / TBS | C / FFP | TBS | May 2018 | Jul 2018 | 1 | 3,700.000 | | | |
| (TJAGLCS Infrastructure) Hardware | | 2016 | TBS / TBS | C / FP | MICC, Ft. Lee, VA | Feb 2016 | Oct 2016 | 1 | 730.000 | Y | | |
| (TJAGLCS Infrastructure) Hardware | | 2017 | TBS / TBS | C / FP | TBS | Nov 2016 | Jan 2017 | 1 | 1,493.000 | N | | |
| (TJAGLCS Infrastructure) Hardware | | 2018 | TBS / TBS | C / FP | TBS | Feb 2018 | Mar 2018 | 1 | 417.000 | N | | |
| USSOUTHCOM Hardware | | 2018 | TBS / TBS | C / FP | TBS | Apr 2018 | Jun 2018 | 1 | 3,000.000 | N | | |
| PTE CYBER RANGE Hardware | | 2018 | TBS / TBS | C / FP | TBS | Mar 2018 | Apr 2018 | 1 | 1,858.000 | N | | |
| USARPAC Hardware | | 2016 | TBS / TBS | C / FFP | TBS | Sep 2016 | Sep 2016 | 1 | 4,400.000 | Y | | |
| USARPAC Hardware | | 2018 | TBS / TBS | C / FFP | TBS | May 2018 | Aug 2018 | 1 | 4,218.000 | N | | |

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4162 / MACOM AUTOMATION SYSTEMS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MDW Hardware | | 2016 | TBS / TBS | C / FFP | TBS | Aug 2016 | Sep 2016 | 1 | 350.000 | Y | | |
| FORSCOM Hardware | | 2016 | TBS / TBS | C / FFP | TBS | Sep 2016 | Jan 2017 | 1 | 1,198.000 | Y | | |
| (ATIS) Software | | 2018 | TBS / TBS | C / FFP | TBS | Apr 2018 | Jul 2018 | 1 | 911.000 | N | | |
| (ACI) Army-wide Software | | 2017 | TBS / TBS | C / FP | TBS | Apr 2017 | Jul 2017 | 1 | 16,446.000 | N | | |
| (ACI) Army-wide Software | | 2018 | TBS / TBS | C / FP | TBS | Apr 2018 | Jul 2018 | 0 | 0.000 | N | | |
| (ATIA) Software | | 2016 | TBS / TBS | C / FP | TBS | Jul 2016 | Sep 2016 | 1 | 151.000 | Y | | |
| (ATIA) Software | | 2017 | TBS / TBS | C / FP | TBS | Jul 2017 | Sep 2017 | 1 | 147.000 | N | | |
| (ATIA) Software | | 2018 | TBS / TBS | C / FP | TBS | Jul 2018 | Sep 2018 | 1 | 162.000 | N | | |
| (TJAGLCS Infrastructure) Software | | 2016 | TBS / TBS | C / FP | MICC, Ft. Lee, VA | Feb 2016 | Aug 2016 | 1 | 350.000 | Y | | |
| (TJAGLCS Infrastructure) Software | | 2017 | TBS / TBS | C / FP | TBS | Feb 2017 | May 2017 | 1 | 498.000 | N | | |
| Contractor Management | | 2016 | PM I3C2 / Ft. Belvoir, VA | RO | PEO EIS, Ft. Belvoir, VA | Oct 2015 | May 2016 | 1 | 1,306.000 | N | | |
| Contractor Management | | 2017 | PM I3C2 / Ft. Belvoir, VA | RO | PEO EIS, Ft. Belvoir, VA | Oct 2016 | Jul 2017 | 1 | 4,666.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission Installation Contracting Center; DISA - Defense Information Systems Agency; PM I3C2 - Product Manager Installation Information Infrastructure-Communications and Capabilities; PEO EIS - Program Executive Office, Enterprise Information Systems.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** BE4164 / PERSONNEL AUTOMATION SYSTEMS |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 794.715 | 25.640 | 19.332 | 20.199 | - | 20.199 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 794.715 | 25.640 | 19.332 | 20.199 | - | 20.199 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **794.715** | **25.640** | **19.332** | **20.199** | **-** | **20.199** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| (ACCHR) Recurring Hardware(†) | - | - | - | 3,728.000 | 1 | 3.728 | - | - | - | 1,829.000 | 1 | 1.829 | - | - | - | 1,829.000 | 1 | 1.829 |
| (USMA) Hardware | 14,471.000 | 1 | 14.471 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| (AA-IAA) Hardware Recurring(†) | 61,620.000 | 1 | 61.620 | 7,632.000 | 1 | 7.632 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Recurring Cost* | - | - | *76.091* | - | - | *11.360* | - | - | - | - | - | *1.829* | - | - | - | - | - | *1.829* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| (AA-IAA) Hardware Non-Recurring(†) | - | - | - | - | - | - | 3,251.000 | 1 | 3.251 | - | - | - | - | - | - | - | - | - |
| (PES-A) Hardware(†) | 679,014.000 | 1 | 679.014 | 6,884.000 | 1 | 6.884 | 3,223.000 | 1 | 3.223 | 8,252.000 | 1 | 8.252 | - | - | - | 8,252.000 | 1 | 8.252 |
| (MIRS) Hardware(†) | 28,071.000 | 1 | 28.071 | 5,396.000 | 1 | 5.396 | 12,858.000 | 1 | 12.858 | 6,521.000 | 1 | 6.521 | - | - | - | 6,521.000 | 1 | 6.521 |
| (ACCHR) NonRecurring Hardware | 9,098.000 | 1 | 9.098 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SFL-TAP Hardware(†) | - | - | - | - | - | - | - | - | - | 597.000 | 1 | 0.597 | - | - | - | 597.000 | 1 | 0.597 |
| EUCOM(†) | - | - | - | 2,000.000 | 1 | 2.000 | - | - | - | 3,000.000 | 1 | 3.000 | - | - | - | 3,000.000 | 1 | 3.000 |
| *Subtotal: Non Recurring Cost* | - | - | *716.183* | - | - | *14.280* | - | - | *19.332* | - | - | *18.370* | - | - | - | - | - | *18.370* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***792.274*** | **-** | **-** | ***25.640*** | **-** | **-** | ***19.332*** | **-** | **-** | ***20.199*** | **-** | **-** | **-** | **-** | **-** | ***20.199*** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Software Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| (ACCHR) Software | 2,441.000 | 1 | 2.441 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Non Recurring Cost* | - | - | *2.441* | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Software Cost* | **-** | **-** | ***2.441*** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| **Gross/Weapon System Cost** | **-** | **-** | **794.715** | **-** | **-** | **25.640** | **-** | **-** | **19.332** | **-** | **-** | **20.199** | **-** | **-** | **-** | **-** | **-** | **20.199** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 25.640 | 19.332 | 20.199 | - | 20.199 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **25.640** | **19.332** | **20.199** | **-** | **20.199** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (ACCHR) Recurring Hardware | | 2016 | Dell Federal Systems, LP / Round Rock, TX | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 1 | 2,534.000 | Y | | |
| (ACCHR) Recurring Hardware | | 2016 | CDW Government, LLC / Vernon Hills, IL | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Dec 2016 | 0 | 337.000 | Y | | |
| (ACCHR) Recurring Hardware | | 2016 | TBS / TBS | C / FP | MICC, Ft. Knox, KY | May 2016 | Aug 2016 | 0 | 857.000 | N | | |
| (ACCHR) Recurring Hardware | | 2018 | TBS / TBS | C / FP | TBS | May 2018 | Jun 2018 | 1 | 1,829.000 | N | | |
| (AA-IAA) Hardware Recurring | | 2016 | CDW Government, LLC / Vernon Hills, IL | C / FFP | MICC, Ft. Knox, KY | Jun 2016 | Jul 2016 | 1 | 2,479.000 | Y | | |
| (AA-IAA) Hardware Recurring | | 2016 | World Wide Technology / Maryland Heights, MO | C / FFP | MICC, Ft. Knox, KY | Jun 2016 | Jul 2016 | 0 | 1,606.000 | Y | | |
| (AA-IAA) Hardware Recurring | | 2016 | Iron Bow Technologies / Chantilly, VA | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 0 | 2,504.000 | Y | | |
| (AA-IAA) Hardware Recurring | | 2016 | TBS / TBS | C / FFP | MICC, Ft. Knox, KY | Mar 2017 | May 2017 | 0 | 1,043.000 | Y | | |
| (AA-IAA) Hardware Non-Recurring | | 2017 | TBS / TBS | C / FFP | TBS | Mar 2017 | May 2017 | 1 | 3,251.000 | Y | | |
| (PES-A) Hardware | | 2016 | Affigent LLC / Herndon, VA | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 1 | 2,069.000 | Y | | |
| (PES-A) Hardware | | 2016 | Insight Public Sector / Tempe, AZ | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 0 | 969.000 | Y | | |
| (PES-A) Hardware | | 2016 | CA Technologies / Hauppauge, NY | C / FFP | MICC, Ft. Knox, KY | Feb 2016 | Mar 2016 | 0 | 959.000 | Y | | |
| (PES-A) Hardware | | 2016 | UNICOM Government / Herndon, VA | C / FFP | MICC, Ft. Knox, KY | Aug 2016 | Sep 2016 | 0 | 354.000 | Y | | |
| (PES-A) Hardware | | 2016 | Levi, Ray & Shoup, Inc. / Springfield, IL | C / FFP | MICC, Ft. Knox, KY | Nov 2015 | Dec 2015 | 0 | 36.000 | Y | | |
| (PES-A) Hardware | | 2016 | MAC Business Solutions / Gaithersburg, MD | C / FFP | MICC, Ft. Knox, KY | May 2016 | Jun 2016 | 0 | 33.000 | Y | | |
| (PES-A) Hardware | | 2016 | Sterling Computers Corp. / Dakota Dunes, SD | C / FFP | MICC, Ft. Knox, KY | Aug 2016 | Sep 2016 | 0 | 25.000 | Y | | |
| (PES-A) Hardware | | 2016 | immixTechnology, Inc. / McLean, VA | C / FFP | MICC, Ft. Knox, KY | Jan 2016 | Feb 2016 | 0 | 200.000 | Y | | |
| (PES-A) Hardware | | 2016 | Office Design Group, Inc. / Irvine, CA | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 0 | 20.000 | Y | | |
| (PES-A) Hardware | | 2016 | Compuware Corp. / Detroit, MI | C / FFP | MICC, Ft. Knox, KY | Dec 2015 | Jan 2016 | 0 | 18.000 | Y | | |
| (PES-A) Hardware | | 2016 | Executive Information Systems / Bethesda, MD | C / FFP | MICC, Ft. Knox, KY | Nov 2016 | Dec 2016 | 0 | 8.000 | Y | | |
| (PES-A) Hardware | | 2016 | IBM / Bethesda, MD | C / FFP | MICC, Ft. Knox, KY | Dec 2016 | Jan 2017 | 0 | 3.000 | Y | | |
| (PES-A) Hardware | | 2016 | TBS / TBS | C / FFP | MICC, Ft. Knox, KY | Dec 2016 | Dec 2016 | 0 | 2,190.000 | Y | | |
| (PES-A) Hardware | | 2017 | TBS / TBS | C / FFP | TBS | Mar 2017 | Jul 2017 | 1 | 611.000 | Y | | |
| (PES-A) Hardware - 2 | | 2017 | TBS / TBS | C / FFP | TBS | Jul 2017 | Sep 2017 | 0 | 2,612.000 | Y | | |
| (PES-A) Hardware | | 2018 | TBS / TBS | C / FFP | TBS | Jun 2018 | Aug 2018 | 1 | 8,252.000 | N | | |
| (MIRS) Hardware | | 2016 | Government Acquisition Inc. / Cincinnati, OH | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 1 | 3,091.000 | Y | | |
| (MIRS) Hardware | | 2016 | Iron Bow Technologies / Chantilly, VA | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 0 | 913.000 | Y | | |

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: BD3000 / Automated Data Processing Equip | Item Number / Title [DODIC]: BE4164 / PERSONNEL AUTOMATION SYSTEMS |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (MIRS) Hardware | | 2016 | CDW Government, LLC / Vernon Hills, IL | C / FFP | MICC, Ft. Knox, KY | Jun 2016 | Jun 2016 | 0 | 807.000 | Y | | |
| (MIRS) Hardware | | 2016 | World Wide Technology / Maryland Heights, MO | C / FFP | MICC, Ft. Knox, KY | Sep 2016 | Oct 2016 | 0 | 533.000 | Y | | |
| (MIRS) Hardware | | 2016 | TBS / TBS | C / FFP | MICC, Ft. Knox, KY | Jan 2017 | Feb 2017 | 0 | 52.000 | Y | | |
| (MIRS) Hardware | | 2017 | TBS / TBS | C / FFP | MICC, Ft. Knox, KY | Apr 2017 | Jun 2017 | 1 | 12,858.000 | N | | |
| (MIRS) Hardware | | 2018 | TBS / TBS | C / FFP | MICC, Ft. Knox, KY | Jan 2018 | Apr 2018 | 1 | 6,521.000 | N | | |
| SFL-TAP Hardware | | 2018 | TBS / TBS | C / FFP | TBS | Apr 2018 | Jul 2018 | 1 | 597.000 | N | | |
| EUCOM | | 2016 | TBS / TBS | C / FFP | TBS | Jun 2016 | Jul 2016 | 1 | 2,000.000 | Y | | |
| EUCOM | | 2018 | TBS / TBS | C / FFP | TBS | Jun 2018 | Jul 2018 | 1 | 3,000.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission and Installation Contracting Command.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** BE4175 / Personnel Automation Systems - West Point |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | 3.319 | 2.861 | 3.300 | - | 3.300 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 3.319 | 2.861 | 3.300 | - | 3.300 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **3.319** | **2.861** | **3.300** | **-** | **3.300** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| U. S. Military Academy (USMA) Hardware(†) | - | - | - | 3,319.000 | 1 | 3.319 | 2,861.000 | 1 | 2.861 | 3,300.000 | 1 | 3.300 | - | - | - | 3,300.000 | 1 | 3.300 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | *3.319* | - | - | *2.861* | - | - | *3.300* | - | - | - | - | - | *3.300* |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | ***3.319*** | **-** | **-** | ***2.861*** | **-** | **-** | ***3.300*** | **-** | **-** | **-** | **-** | **-** | ***3.300*** |
| **Gross/Weapon System Cost** | **-** | **-** | **-** | **-** | **-** | **3.319** | **-** | **-** | **2.861** | **-** | **-** | **3.300** | **-** | **-** | **-** | **-** | **-** | **3.300** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 3.319 | 2.861 | 3.300 | - | 3.300 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **3.319** | **2.861** | **3.300** | **-** | **3.300** |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BD3000 / Automated Data Processing Equip | **Item Number / Title [DODIC]:** BE4175 / Personnel Automation Systems - West Point |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U. S. Military Academy (USMA) Hardware | | 2016 | Dell Federal Systems / Round Rock, TX | C / FFP | MICC, West Point, NY | Dec 2015 | Jan 2016 | 1 | 1,073.000 | Y | | |
| U. S. Military Academy (USMA) Hardware | | 2016 | NCI Information Systems, Inc. / Reston, VA | C / FFP | MICC, West Point, NY | Nov 2016 | Dec 2016 | 0 | 4.000 | Y | | |
| U. S. Military Academy (USMA) Hardware | | 2016 | World Wide Technology, Inc / Maryland Heights, MO | C / FFP | MICC, West Point, NY | May 2016 | Jun 2016 | 0 | 618.000 | Y | | |
| U. S. Military Academy (USMA) Hardware | | 2016 | TBS / TBS | C / FFP | MICC, West Point, NY | Jan 2017 | Mar 2017 | 0 | 1,624.000 | Y | | |
| U. S. Military Academy (USMA) Hardware | | 2017 | TBS / TBS | C / FFP | MICC, West Point, NY | Jan 2017 | Jun 2017 | 1 | 2,861.000 | N | | |
| U. S. Military Academy (USMA) Hardware | | 2018 | TBS / TBS | C / FFP | TBS | Feb 2018 | May 2018 | 1 | 3,300.000 | N | | |

**Remarks:**
All IT procurements consist of COTS/GOTS solutions; all quantities and unit costs vary by system configuration and site. MICC - Mission and Installation Contracting Command.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** B55500 / General Fund Enterprise Business Systems Fam |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 241.794 | 13.540 | 6.416 | 4.465 | - | 4.465 | 4.608 | 4.610 | 4.453 | 4.571 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 241.794 | 13.540 | 6.416 | 4.465 | - | 4.465 | 4.608 | 4.610 | 4.453 | 4.571 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **241.794** | **13.540** | **6.416** | **4.465** | **-** | **4.465** | **4.608** | **4.610** | **4.453** | **4.571** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The General Fund Enterprise Business System (GFEBS) is a Major Automated Information System (MAIS) (ACAT-IAC) project that replaced antiquated financial systems including the Standard Finance Systems (STANFINS), Standard Operations and Maintenance, and Army R&D System (SOMARDS). GFEBS is the Department of the Army's enterprise financial and asset management system. GFEBS is a commercial off-the-shelf (COTS) Enterprise Resource Planning (ERP) System certified by the Chief Financial Officers Council (CFOC). GFEBS is fielded to more than 53,000 trained users at over 227 installations worldwide and is the Army's enterprise solution in accounting and financial management. GFEBS provides improved functionality in general fund core financial functions including: general ledger management; financial reporting; real property, plant, and equipment accountability; reimbursable, revenue, and accounts receivable; cost management; funds control and budgetary accounting; accounts payable; and audit trails and system controls and meets legislative mandates to develop an auditable financial system. The primary objectives for the GFEBS financial management system are to provide an integrated off the shelf capability for general fund management for the Army that meets requirements for auditability, and to improve performance, standardize business processes, ensure capability exists to meet future needs, and provide Army's decision makers with relevant, reliable, and timely information.

GFEBS-Sensitive Activities (SA) provides a classified version of the GFEBS program developed to process data in a secure environment to protect and manage classified data. GFEBS-SA will integrate seamlessly with GFEBS and provide a secure, web-based, financial asset and accounting management system to Army classified, intelligence, and special access programs.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 13.540 | 6.416 | 4.465 | - | 4.465 | 4.608 | 4.610 | 4.453 | 4.571 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **13.540** | **6.416** | **4.465** | **-** | **4.465** | **4.608** | **4.610** | **4.453** | **4.571** |

**Justification:**
FY 2018 Base procurement dollars in the amount of $4.465 million supports software and hardware infrastructure upgrades, to bring GFEBS reporting and analytics in line with processing performance thresholds established in the GFEBS Capabilities Production Document(CPD); to support auditability and compliancy requirements.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:**<br>B55500 / General Fund Enterprise Business Systems Fam | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** B66501 / High Perf Computing Mod Pgm (HPCMP) |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 4 | - | 4 | 4 | 4 | 4 | 4 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 127.935 | 62.319 | 58.614 | 66.363 | - | 66.363 | 67.147 | 68.445 | 69.328 | 71.717 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 127.935 | 62.319 | 58.614 | 66.363 | - | 66.363 | 67.147 | 68.445 | 69.328 | 71.717 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **127.935** | **62.319** | **58.614** | **66.363** | **-** | **66.363** | **67.147** | **68.445** | **69.328** | **71.717** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 16,590.750 | - | 16,590.750 | 16,786.750 | 17,111.250 | 17,332.000 | 17,929.250 | Continuing | Continuing |

## Description:

The Department of Defense (DoD) High Performance Computing (HPC) Modernization Program, managed by the Army, supports the needs of all services for technological superiority and military dominance on the battlefield by providing advanced computational services to U.S. weapons system scientists and engineers. By exploiting continuous advances in high performance computing technology, the Defense Research, Development, Test and Evaluation (RDT&E) community is able to resolve critical scientific and engineering problems quickly and with more precision. The results of these efforts feed directly into the acquisition process by improving weapons system designs through an increased fundamental understanding of materials, aerodynamics, chemistry, fuels, acoustics, signal image recognition, electromagnetics, and other areas of basic and applied research as well as enabling advanced test and evaluation environments that allow synthetic scene generation, automatic control systems and virtual test environments. As such, HPC has been identified as a key enabling technology essential to achieving the objectives of the DoD's Science and Technology (S&T) and Test and Evaluation (T&E) programs. The program deploys supercomputers to provide world-class high performance computing (HPC) capability to a nation-wide user community.

The HPC Modernization program provides focused modernization efforts crafted to ensure DoD's S&T and T&E communities are supported with current generation supercomputing capabilities. The HPC modernization program resulted from congressional language that recognized supercomputing as a national strategic asset and directed the DoD to focus on supercomputing modernization at laboratories and test centers to keep its forces and military systems on the leading technological edge.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | 4 | - | 4 | 4 | 4 | 4 | 4 |
| | Total Obligation Authority | 62.319 | 58.614 | 66.363 | - | 66.363 | 67.147 | 68.445 | 69.328 | 71.717 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **4** | **-** | **4** | **4** | **4** | **4** | **4** |
| | **Total Obligation Authority** | **62.319** | **58.614** | **66.363** | **-** | **66.363** | **67.147** | **68.445** | **69.328** | **71.717** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:**<br>B66501 / High Perf Computing Mod Pgm (HPCMP) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | B66501 / High Perf Computing Mod Pgm (HPCMP) | P-5a | | | - / 127.935 | - / 62.319 | - / 58.614 | 4 / 66.363 | - / - | 4 / 66.363 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 127.935** | **- / 62.319** | **- / 58.614** | **4 / 66.363** | **- / -** | **4 / 66.363** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $58.363 million supports two large supercomputers for two DoD Supercomputing Resource Center (DRSC) locations, Army Research Laboratory (ARL) located in Aberdeen, MD., and the Engineer Research and Development Center DSRC located in Vicksburg, MS.

FY 2018 Base procurement in the amount of $8.000 million will support four (4) DoD HPC Project Investments for Army, Navy, and Air Force initiatives requiring unique specifications or computing classification above SECRET.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** B66501 / High Perf Computing Mod Pgm (HPCMP) | **Item Number / Title [DODIC]:** B66501 / High Perf Computing Mod Pgm (HPCMP) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | 4 | - | 4 |
| Gross/Weapon System Cost *($ in Millions)* | 127.935 | 62.319 | 58.614 | 66.363 | - | 66.363 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 127.935 | 62.319 | 58.614 | 66.363 | - | 66.363 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **127.935** | **62.319** | **58.614** | **66.363** | **-** | **66.363** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | 16,590.750 | - | 16,590.750 |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* | Unit Cost *($ K)* | Qty *(Each)* | Total Cost *($ M)* |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| Dedicated HPC Project Investments(†) | 1,323.000 | 5 | 6.615 | 1,349.500 | 2 | 2.699 | 1,519.300 | 3 | 4.558 | 2,000.000 | 4 | 8.000 | - | - | - | 2,000.000 | 4 | 8.000 |
| Defense Supercomputing Resource Centers(†) | 30,330.000 | 4 | 121.320 | 29,810.000 | 2 | 59.620 | 27,028.000 | 2 | 54.056 | 29,181.500 | 2 | 58.363 | - | - | - | 29,181.500 | 2 | 58.363 |
| *Subtotal: Non Recurring Cost* | - | - | *127.935* | - | - | *62.319* | - | - | *58.614* | - | - | *66.363* | - | - | - | - | - | *66.363* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***127.935*** | **-** | **-** | ***62.319*** | **-** | **-** | ***58.614*** | **-** | **-** | ***66.363*** | **-** | **-** | **-** | **-** | **-** | ***66.363*** |
| **Gross/Weapon System Cost** | **-** | **-** | **127.935** | **-** | **-** | **62.319** | **-** | **-** | **58.614** | **16,590.750** | **4** | **66.363** | **-** | **-** | **-** | **16,590.750** | **4** | **66.363** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | 4 | - | 4 |
| | Total Obligation Authority | 62.319 | 58.614 | 66.363 | - | 66.363 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **4** | **-** | **4** |
| | **Total Obligation Authority** | **62.319** | **58.614** | **66.363** | **-** | **66.363** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 92 | P-1 Line Item Number / Title: B66501 / High Perf Computing Mod Pgm (HPCMP) | Item Number / Title [DODIC]: B66501 / High Perf Computing Mod Pgm (HPCMP) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dedicated HPC Project Investments | | 2016 | TBD / TBD | TBD | DTRA J9CXA/TAT | Sep 2016 | May 2017 | 1 | 1,349.500 | Y | | Jul 2016 |
| Dedicated HPC Project Investments - 2 | | 2016 | TBD / TBD | TBD | Air Force AF/A9 | Sep 2016 | May 2017 | 1 | 1,349.500 | Y | | Jul 2016 |
| Dedicated HPC Project Investments | | 2017 | TBD / TBD | TBD | TBD | Sep 2017 | May 2018 | 3 | 1,519.300 | N | | Jul 2017 |
| Dedicated HPC Project Investments | | 2018 | TBD / TBD | TBD | TBD | Sep 2018 | May 2019 | 4 | 2,000.000 | N | | Jul 2018 |
| Defense Supercomputing Resource Centers | | 2016 | TBD / TBD | C / BOA | Army ERDC DSRC Vicksburg, MS | Oct 2016 | Feb 2017 | 1 | 29,810.000 | Y | | Mar 2016 |
| Defense Supercomputing Resource Centers - 2 | | 2016 | TBD / TBD | C / BOA | Army ARL DSRC Aberdeen, MD | Oct 2016 | Feb 2017 | 1 | 29,810.000 | Y | | Mar 2016 |
| Defense Supercomputing Resource Centers | | 2017 | TBD / TBD | C / BOA | AFRL, Wright Patterson AFB | Sep 2017 | Feb 2018 | 1 | 27,307.000 | N | | Mar 2017 |
| Defense Supercomputing Resource Centers - 2 | | 2017 | TBD / TBD | C / BOA | Navy DSCR Stennis Space Ctr | Sep 2017 | Feb 2018 | 1 | 27,307.000 | N | | Mar 2017 |
| Defense Supercomputing Resource Centers | | 2018 | TBD / TBD | C / BOA | Army ERDC DSRC, Vicksburg, MS | Sep 2018 | Feb 2019 | 1 | 29,181.500 | N | | Mar 2018 |
| Defense Supercomputing Resource Centers - 2 | | 2018 | TBD / TBD | C / BOA | Army ARL DSRC, Aberdeen, MD | Sep 2018 | Feb 2019 | 1 | 29,181.500 | N | | Mar 2018 |

**Remarks:**
The High Performance Computing Modernization Program (HPCMP) has a five year broad ordering agreement (BOA) arrangement through Huntsville Engineering Support Center (Army Corps of Engineers), increasing speed to award and acceptance. All procurements are commercial off the shelf or government off the shelf (COTS/GOTS).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** B66001 / Contract Writing System |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 0.986 | 1.001 | - | 1.001 | 15.527 | 16.902 | 8.573 | 6.040 | - | 49.029 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 0.986 | 1.001 | - | 1.001 | 15.527 | 16.902 | 8.573 | 6.040 | - | 49.029 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **0.986** | **1.001** | **-** | **1.001** | **15.527** | **16.902** | **8.573** | **6.040** | **-** | **49.029** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Army Contract Writing System (ACWS) will be the Army's single, next-generation, enterprise-wide contract writing, management, execution, and close-out software system. ACWS will facilitate the standardization of Army Procurement business processes and streamline the integration with Army ERP systems. As a financial feeder system, ACWS will meet the compliance requirements of the Federal Financial Management Improvement Act of 1996 (FFMIA). The system will meet the full scope of Army Contracting requirements, including those in secure and non-secure locations, those supporting combat or non-combat contingencies, those within or outside the borders of the Continental United States, those supporting grants and assistance agreements, and those performing weapons systems, construction, installation, and other specialized contracting activities.

This is consistent with Undersecretary of Defense, Acquisition, Technology and Logistics Memorandum; Department of Defense (DoD) Functional Contract Writing and Administration, dated 21 October 2011, which directed each of the Services to develop a new contract writing system. Accordingly, Army received an OSD Deputy Chief Management Officer (DCMO) validated problem statement and the Army Acquisition Executive approved the ACWS Materiel Development Decision (MDD) on 29 October 2014. On 24 March 2016, the Undersecretary of Defense for Acquisition, Logistics and Technology re-designated the ACWS as an ACAT IAM (MAIS) program and authorized the release of the RFP to procure a Commercial-off-the-Shelf (COTS) system. ACWS just completed an aggressive Source Selection and conducted an Army Systems Acquisition Review Council (ASARC) meeting with the Army Acquisition Executive in March 2017, and received approval from the Defense Acquisition Executive to proceed to contract award in April 2017. Contract Award is anticipated in May 2017.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | 0.986 | 1.001 | - | 1.001 | 15.527 | 16.902 | 8.573 | 6.040 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **-** | **0.986** | **1.001** | **-** | **1.001** | **15.527** | **16.902** | **8.573** | **6.040** |

**Justification:**

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:**<br>B66001 / Contract Writing System | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

FY2018 procurement funding supports ACWS software licenses and system fielding activities (Organization Change Management) for Build 1 (TO 002) in the Development and Deployment phase. The licenses procurement is aligned to our deployment schedule, and if not funded ACWS will be unable to fully deploy the system to all end users and retire Legacy systems. This will result in extending the program schedule and increasing total program costs (overhead).

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:** BE4167 / Reserve Component Automation Sys (RCAS) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,857.349 | 17.894 | 23.828 | 26.183 | - | 26.183 | 28.240 | 28.224 | 28.211 | 28.775 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,857.349 | 17.894 | 23.828 | 26.183 | - | 26.183 | 28.240 | 28.224 | 28.211 | 28.775 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,857.349** | **17.894** | **23.828** | **26.183** | **-** | **26.183** | **28.240** | **28.224** | **28.211** | **28.775** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

The Reserve Component Automation System (RCAS) is an automated information system that provides the capability to administer, manage, and mobilize the Army's Reserve Component (RC) forces more effectively. Specifically, RCAS supports the mobilization planning and unit administration functions of the Army National Guard and Army Reserve by integrating commercial off-the-shelf (COTS) hardware and office automation software, Government off-the-shelf (GOTS) software, and developed functional software applications into a common operating environment, personal computer based architecture. Since completion of the infrastructure and functional capabilities, system acquisition has been focused on the effective and efficient sustainment of the fielded system and software applications. The RCAS hardware infrastructure is refreshed on a five year cycle, replacing approximately 20% of the fielded infrastructure per year.

The program supports the Army and DoD objectives of network convergence to Unified Capabilities and is aligned with the Joint Information Environment initiative by providing the transport infrastructure.

RCAS is the Army's system of choice and record for all RC Commands mobilizing their citizen soldiers for disaster response, homeland security tasking, and overseas deployment. Established in response to a Government Accountability Office report on the Army Reserve Component's inability to provide timely and accurate mobilization data, the system now dramatically improves the Army's and the states' ability to organize, train, and equip their citizen soldiers, mobilize forces in half the historical time required, and provides resource visibility to state and federal agencies of all forces at home and abroad. RCAS has been successfully utilized in response to 9/11, Homeland Security missions, National Training exercises, Disaster Relief, and Operations Iraqi Freedom, New Dawn, Enduring Freedom and Freedom's Sentinel.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 17.894 | - | - | - | - | - | - | - | - |
| ANG | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | 14.297 | 15.710 | - | 15.710 | 16.944 | 16.934 | 16.927 | 17.265 |
| AR | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | - | 9.531 | 10.473 | - | 10.473 | 11.296 | 11.290 | 11.284 | 11.510 |
| **Total:** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:**<br>BE4167 / Reserve Component Automation Sys (RCAS) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Secondary Distribution | Total Obligation Authority | 17.894 | 23.828 | 26.183 | - | 26.183 | 28.240 | 28.224 | 28.211 | 28.775 |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 92: Elect Equip - Automation | **P-1 Line Item Number / Title:**<br>BE4167 / Reserve Component Automation Sys (RCAS) |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* | Quantity / Total Cost *(Each) I ($ M)* |
| P-5 | BE4167 / Reserve Component Automation Sys (RCAS) | P-5a | | | - / 1,857.349 | - / 17.894 | - / 23.828 | - / 26.183 | - / - | - / 26.183 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / 1,857.349** | **- / 17.894** | **- / 23.828** | **- / 26.183** | **- / -** | **- / 26.183** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base procurement dollars in the amount of $26.183 million will support refreshment of approximately 17 percent of the RCAS hardware infrastructure, placing the information technology infrastructure refresh on a 6 year cycle. The program will support hardware and software refresh to Army National Guard and U.S. Army Reserve commands and units based on priorities established by the respective Components. The program will satisfy agency information technology mandates with respect to information assurance, net worthiness, server consolidation, and a common operating environment.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BE4167 / Reserve Component Automation Sys (RCAS) | **Item Number / Title [DODIC]:** BE4167 / Reserve Component Automation Sys (RCAS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 1,857.349 | 17.894 | 23.828 | 26.183 | - | 26.183 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 1,857.349 | 17.894 | 23.828 | 26.183 | - | 26.183 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **1,857.349** | **17.894** | **23.828** | **26.183** | **-** | **26.183** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| Life Cycle Replacement Hardware(†) | 1,857,349.000 | 1 | 1,857.349 | 17,894.000 | 1 | 17.894 | 23,828.000 | 1 | 23.828 | 26,183.000 | 1 | 26.183 | - | - | - | 26,183.000 | 1 | 26.183 |
| *Subtotal: Recurring Cost* | - | - | *1,857.349* | - | - | *17.894* | - | - | *23.828* | - | - | *26.183* | - | - | - | - | - | *26.183* |
| *Subtotal: Hardware Cost* | **-** | **-** | ***1,857.349*** | **-** | **-** | ***17.894*** | **-** | **-** | ***23.828*** | **-** | **-** | ***26.183*** | **-** | **-** | **-** | **-** | **-** | ***26.183*** |
| **Gross/Weapon System Cost** | **-** | **-** | **1,857.349** | **-** | **-** | **17.894** | **-** | **-** | **23.828** | **-** | **-** | **26.183** | **-** | **-** | **-** | **-** | **-** | **26.183** |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - |
| | Total Obligation Authority | 17.894 | - | - | - | - |
| ANG | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | 14.297 | 15.710 | - | 15.710 |
| AR | Quantity | - | - | - | - | - |
| | Total Obligation Authority | - | 9.531 | 10.473 | - | 10.473 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **17.894** | **23.828** | **26.183** | **-** | **26.183** |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A / 02 / 92 | **P-1 Line Item Number / Title:**<br>BE4167 / Reserve Component Automation Sys (RCAS) | **Item Number / Title [DODIC]:**<br>BE4167 / Reserve Component Automation Sys (RCAS) |
| **ID Code** (A=Service Ready, B=Not Service Ready) : | **MDAP/MAIS Code:** | |

(†) indicates the presence of a P-5a

| **Exhibit P-5a, Procurement History and Planning:** FY 2018 Army | | **Date:** May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A / 02 / 92 | **P-1 Line Item Number / Title:** BE4167 / Reserve Component Automation Sys (RCAS) | **Item Number / Title [DODIC]:** BE4167 / Reserve Component Automation Sys (RCAS) |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty *(Each)* | Unit Cost *($ K)* | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Life Cycle Replacement Hardware | | 2016 | L3 National Security Svc / Reston, VA | C / CR | Washington, DC | Mar 2016 | Apr 2016 | 1 | 17,894.000 | Y | | |
| Life Cycle Replacement Hardware | | 2017 | L3 National Security Svc / Reston, VA | C / CR | Washington, DC | Mar 2017 | Apr 2017 | 1 | 23,828.000 | Y | | |
| Life Cycle Replacement Hardware | | 2018 | TBD / TBD | C / CR | TBD | Mar 2018 | Apr 2018 | 1 | 26,183.000 | Y | | Oct 2017 |

**Remarks:**
L3 National Security Services is the prime contractor for PD RCAS. All items are COTS/GOTS solutions.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V) | **P-1 Line Item Number / Title:** B68501 / TACTICAL DIGITAL MEDIA |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A / **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | 40 | 150 | - | 150 | 167 | 170 | 173 | 168 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | - | - | 1.191 | 4.441 | - | 4.441 | 4.958 | 5.500 | 5.592 | 5.874 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | - | 1.191 | 4.441 | - | 4.441 | 4.958 | 5.500 | 5.592 | 5.874 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **-** | **1.191** | **4.441** | **-** | **4.441** | **4.958** | **5.500** | **5.592** | **5.874** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | 29.775 | 29.607 | - | 29.607 | 29.689 | 32.353 | 32.324 | 34.964 | Continuing | Continuing |

## Description:

Tactical Digital Media (TDM) kits provide Commercial-Off-The-Shelf (COTS) components to capture and edit, still and video imagery, to produce multimedia products, and live interviews, which directly contributes to successful execution of a Commander's strategic engagement & communications strategy across the full range of military operations. Specific support provided to the National Command Authority level to assist with operational planning, decision-making, combat adversary misinformation/ disinformation, alter perceptions regarding coalition efforts, and provide accurate and timely information to national & international audiences.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | 40 | 96 | - | 96 | 109 | 112 | 115 | 110 |
| | Total Obligation Authority | - | 1.191 | 2.441 | - | 2.441 | 2.480 | 2.750 | 2.796 | 2.936 |
| ANG | Quantity | - | - | 27 | - | 27 | 29 | 29 | 29 | 29 |
| | Total Obligation Authority | - | - | 1.000 | - | 1.000 | 1.239 | 1.375 | 1.398 | 1.469 |
| AR | Quantity | - | - | 27 | - | 27 | 29 | 29 | 29 | 29 |
| | Total Obligation Authority | - | - | 1.000 | - | 1.000 | 1.239 | 1.375 | 1.398 | 1.469 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **40** | **150** | **-** | **150** | **167** | **170** | **173** | **168** |
| | **Total Obligation Authority** | **-** | **1.191** | **4.441** | **-** | **4.441** | **4.958** | **5.500** | **5.592** | **5.874** |

**Justification:**

FY18 Base procurement funding in the amount of $4.441 million procures and fields 111 TDM variant kits tailored to unit mission requirements. FY18 funding also provides Program Management, Product Support/Distribution support.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V) | **P-1 Line Item Number / Title:**<br>B68501 / TACTICAL DIGITAL MEDIA | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V) | **P-1 Line Item Number / Title:** BL5300 / Items Less Than $5M (Surveying Equipment) |

**ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | 333 | 33 | 50 | 27 | - | 27 | 11 | 6 | 40 | 76 | Continuing | Continuing |
| Gross/Weapon System Cost *($ in Millions)* | 59.059 | 5.090 | 2.091 | 3.414 | - | 3.414 | 1.994 | 1.408 | 4.687 | 7.720 | Continuing | Continuing |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 59.059 | 5.090 | 2.091 | 3.414 | - | 3.414 | 1.994 | 1.408 | 4.687 | 7.720 | Continuing | Continuing |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **59.059** | **5.090** | **2.091** | **3.414** | **-** | **3.414** | **1.994** | **1.408** | **4.687** | **7.720** | **Continuing** | **Continuing** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | 177.354 | 154.242 | 41.820 | 126.444 | - | 126.444 | 181.273 | 234.667 | 117.175 | 101.579 | Continuing | Continuing |

## Description:

This budget line supports the procurement and upgrade of the Automated Integrated Survey Instrument (AISI) and Global Positioning System - Survey (GPS-S). This equipment supports the survey mission of both the Topographic and Construction Engineer. Capabilities provided by this equipment enable engineers to establish the geodetic control necessary for construction and topographic surveys with centimeter level precision in electronic contested environments. GPS-S integrates Selective Availability, Anti-Spoofing Module (SAASM) and Precise Positioning System GPS software upgrades into a Commercial Off the Shelf (COTS) GPS for military survey applications. Additionally, this equipment supports Construction Engineering surveys (e.g., roads, buildings, logistics sites, staging areas, airfield construction). Software functionality, included as part of this procurement, allows the user to accomplish the design work necessary for site design and construction (e.g., materiel calculations, labor, resources). GPS-S interfaces with current Army Survey equipment to perform integrated GPS/optical surveys. Leverages the Instrument Set, Reconnaissance and Surveying (ENFIRE) tablet PC to post process survey data files and import survey design files. GPS-S meets FAA standards for airfield survey and allows for standardized commercial data exchanges such that it is interoperable with commercial SW and HW equivalents. GPS-S kits are comprised of commercial off the shelf equipment.

GPS-Survey Army Acquisition Objective (AAO) = 712
GPS-S Hardware and Software are Commercial Off the Shelf (COTS) and Government Off the Shelf (GOTS) procurements.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | 17 | 41 | 12 | - | 12 | 3 | 2 | 12 | 39 |
| | Total Obligation Authority | 2.603 | 0.749 | 1.414 | - | 1.414 | 0.640 | 0.469 | 1.540 | 3.720 |
| ANG | Quantity | 9 | 4 | 8 | - | 8 | 4 | 2 | 15 | 19 |
| | Total Obligation Authority | 1.232 | 0.682 | 1.000 | - | 1.000 | 0.677 | 0.470 | 1.574 | 2.000 |
| AR | Quantity | 7 | 5 | 7 | - | 7 | 4 | 2 | 13 | 18 |
| | Total Obligation Authority | 1.255 | 0.660 | 1.000 | - | 1.000 | 0.677 | 0.469 | 1.573 | 2.000 |
| **Total:** | **Quantity** | **33** | **50** | **27** | **-** | **27** | **11** | **6** | **40** | **76** |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 95: Elect Equip - Audio Visual Sys (A/V) | **P-1 Line Item Number / Title:**<br>BL5300 / Items Less Than $5M (Surveying Equipment) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Secondary Distribution | Total Obligation Authority | 5.090 | 2.091 | 3.414 | - | 3.414 | 1.994 | 1.408 | 4.687 | 7.720 |

**Justification:**
FY 2018 Base procurement dollars in the amount of $3.414 million supports the procurement of up to 27 Global Positioning System - Survey (GPS-S) for Active Duty, National Guard and Army Reserve units. GPS-S kits are comprised of commercial off the shelf equipment.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support | **P-1 Line Item Number / Title:** BF5400 / Production Base Support (C-E) |

| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | 114.757 | 0.425 | 0.403 | 0.499 | - | 0.499 | 0.512 | 0.522 | 0.532 | 0.547 | - | 118.197 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | 114.757 | 0.425 | 0.403 | 0.499 | - | 0.499 | 0.512 | 0.522 | 0.532 | 0.547 | - | 118.197 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **114.757** | **0.425** | **0.403** | **0.499** | **-** | **0.499** | **0.512** | **0.522** | **0.532** | **0.547** | **-** | **118.197** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

This program provides funding to the Army Test and Evaluation Command (ATEC) to establish, modernize, expand or replace test facilities used in production testing of Communications and Electronic equipment. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Electronic Proving Ground (EPG), Fort Huachuca, AZ.

| Secondary Distribution | | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|---|---|---|---|---|---|---|
| Army | Quantity | - | - | - | - | - | - | - | - | - |
| | Total Obligation Authority | 0.425 | 0.403 | 0.499 | - | 0.499 | 0.512 | 0.522 | 0.532 | 0.547 |
| **Total: Secondary Distribution** | **Quantity** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| | **Total Obligation Authority** | **0.425** | **0.403** | **0.499** | **-** | **0.499** | **0.512** | **0.522** | **0.532** | **0.547** |

**Justification:**

FY 2018 Base procurement dollars in the amount of $0.499 million acquires modern instrumentation for EPG's Global Positioning System (GPS) laboratory. Funding will purchase upgrades for its existing commercial-off-the-shelf (COTS) simulators and a custom military (m-code) simulator, signal generator hardware and software to provide emerging threat capability; purchase additional portable computers and improve GPS receiver data collection software; and purchase instrumentation for testing Military beacons. The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

IAW Section 1815 of the FY08 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:**<br>2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support | **P-1 Line Item Number / Title:**<br>BF5400 / Production Base Support (C-E) | |
| **ID Code** (A=Service Ready, B=Not Service Ready): | **Program Elements for Code B Items:** N/A | **Other Related Program Elements:** N/A |
| **Line Item MDAP/MAIS Code:** N/A | | |

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support | **P-1 Line Item Number / Title:** B88801 / BCT Emerging Technologies |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | To Complete | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | 7.438 | - | 25.050 | - | 25.050 | - | - | - | - | - | 32.488 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 7.438 | - | 25.050 | - | 25.050 | - | - | - | - | - | 32.488 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **7.438** | **-** | **25.050** | **-** | **25.050** | **-** | **-** | **-** | **-** | **-** | **32.488** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - | - | - | - | - | - | - |

## Description:

Brigade Combat Team (BCT) Emerging Technologies provides funding for the procurement of Network Integration Evaluation (NIE) / Joint Warfighting Assessment (JWA) evaluated and Army approved commodities (hardware and software) and installation of these network enhancements onto BCT vehicle platforms. These funds provide for the procurement and installation of hardware/software products/ components which are not a part of a current Program of Record (POR) and have been evaluated and approved through the Army's Agile NIE process for inclusion into the Army's Capability Sets (CS) Synchronized Fielding plan. Hardware/software products/component include the tested and approved system, vehicle mounting hardware (A-Kits), and ancillary equipment such as power amplifiers/splitters, GPS units, loudspeakers, routers, battery isolators, filters, cables, connectors, AC inverters, utility outlets, environmental control units (ECU), fans, thermal & power switches, diplexers, and antennas.

BCT Emerging Technologies also supports the Army Rapid Capabilities Office (RCO) efforts to provide capabilities to improve future solutions, to inform future Army capability requirements, and to potentially transition the capability to an Army acquisition program. The Army RCO expedites the provisioning and fielding of critical combat materiel capabilities to the Warfighter to meet Combatant Commanders' needs. The Army RCO was established per Headquarters, Department of the Army, memo, SUBJECT: Establishment of the Army Rapid Capabilities Office, signed by the Secretary of the Army: Eric K. Fanning, dated 11 August 2016. The RCO assesses Commercial-Off-The Shelf (COTS), Government Off-The- Shelf (GOTS), and Non-Developmental Item (NDI) (non-standard equipment) solutions for modification and/or integration to address changes in contested environments with enduring materiel solutions for forces deployed globally. Procure prototypes and evaluate solutions to be fielded and transition to an acquisition program for production and sustainment.

| Exhibit P-40, Budget Line Item Justification: FY 2018 Army | Date: May 2017 |
|---|---|
| **Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 98: Elect Equip - Support | **P-1 Line Item Number / Title:** B88801 / BCT Emerging Technologies |

| ID Code (A=Service Ready, B=Not Service Ready): | Program Elements for Code B Items: N/A | Other Related Program Elements: N/A |
|---|---|---|

**Line Item MDAP/MAIS Code:** N/A

| Exhibits Schedule | | | | | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Exhibit Type | Title* | Subexhibits | ID CD | MDAP/ MAIS Code | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) | Quantity / Total Cost (Each) / ($ M) |
| P-5 | B88801 / BCT Emerging Technologies | P-5a | | | - / - | - / 7.438 | - / - | - / 25.050 | - / - | - / 25.050 |
| **P-40** | **Total Gross/Weapon System Cost** | | | | **- / -** | **- / 7.438** | **- / -** | **- / 25.050** | **- / -** | **- / 25.050** |

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

**Justification:**
FY 2018 Base funding in the amount of $25.050 million supports the Army's Rapid Capabilities Office expedited provisioning and fielding of critical combat materiel capabilities in support of Electronic Warfare (EW) and Position, Navigation and Timing (PNT) Technologies to meet Warfighter and Combatant Commanders' needs.

In accordance with Section 1815 of the FY 2018 NDAA this item is necessary for use by the active components and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98 | P-1 Line Item Number / Title: B88801 / BCT Emerging Technologies | Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

| Resource Summary | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---|---|---|---|---|---|
| Procurement Quantity *(Units in Each)* | - | - | - | - | - | - |
| Gross/Weapon System Cost *($ in Millions)* | - | 7.438 | - | 25.050 | - | 25.050 |
| Less PY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| Net Procurement (P-1) *($ in Millions)* | - | 7.438 | - | 25.050 | - | 25.050 |
| Plus CY Advance Procurement *($ in Millions)* | - | - | - | - | - | - |
| **Total Obligation Authority** *($ in Millions)* | **-** | **7.438** | **-** | **25.050** | **-** | **25.050** |
| *(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)* | | | | | | |
| Initial Spares *($ in Millions)* | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost *($ in Thousands)* | - | - | - | - | - | - |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| Hardware Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| EWTV(†) | - | - | - | - | - | - | - | - | - | 1,500.000 | 3 | 4.500 | - | - | - | 1,500.000 | 3 | 4.500 |
| VROD/VMAX(†) | - | - | - | - | - | - | - | - | - | 387.310 | 29 | 11.232 | - | - | - | 387.310 | 29 | 11.232 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *15.732* | - | - | - | - | - | *15.732* |
| *Subtotal: Hardware Cost* | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | ***15.732*** | **-** | **-** | **-** | **-** | **-** | ***15.732*** |
| Package Fielding Cost | | | | | | | | | | | | | | | | | | |
| Recurring Cost | | | | | | | | | | | | | | | | | | |
| EWTV Fielding | - | - | - | - | - | - | - | - | - | 283.000 | 1 | 0.283 | - | - | - | 283.000 | 1 | 0.283 |
| VROD/VMAX Fielding(†) | - | - | - | - | - | - | - | - | - | 2,035.000 | 1 | 2.035 | - | - | - | 2,035.000 | 1 | 2.035 |
| EWPMT Thick Client Fielding(†) | - | - | - | - | - | - | - | - | - | 1,445.000 | 1 | 1.445 | - | - | - | 1,445.000 | 1 | 1.445 |
| *Subtotal: Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *3.763* | - | - | - | - | - | *3.763* |
| Non Recurring Cost | | | | | | | | | | | | | | | | | | |
| EWTV Services | - | - | - | - | - | - | - | - | - | 3,870.000 | 1 | 3.870 | - | - | - | 3,870.000 | 1 | 3.870 |
| VROD/VMAX Services(†) | - | - | - | - | - | - | - | - | - | 747.000 | 1 | 0.747 | - | - | - | 747.000 | 1 | 0.747 |
| EWPMT Services(†) | - | - | - | - | - | - | - | - | - | 438.000 | 1 | 0.438 | - | - | - | 438.000 | 1 | 0.438 |
| Prophet Services(†) | - | - | - | - | - | - | - | - | - | 500.000 | 1 | 0.500 | - | - | - | 500.000 | 1 | 0.500 |
| *Subtotal: Non Recurring Cost* | - | - | - | - | - | - | - | - | - | - | - | *5.555* | - | - | - | - | - | *5.555* |

| Exhibit P-5, Cost Analysis: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98 | P-1 Line Item Number / Title: B88801 / BCT Emerging Technologies | Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies |
| ID Code (A=Service Ready, B=Not Service Ready) : | MDAP/MAIS Code: | |

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

| Cost Elements | Prior Years | | | FY 2016 | | | FY 2017 | | | FY 2018 Base | | | FY 2018 OCO | | | FY 2018 Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
| *Subtotal: Package Fielding Cost* | - | - | - | - | - | - | - | - | - | - | - | ***9.318*** | - | - | - | - | - | ***9.318*** |
| Support - Fielding Cost | | | | | | | | | | | | | | | | | | |
| Fielding(†) | - | - | - | 7,438.000 | 1 | 7.438 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Subtotal: Support - Fielding Cost* | - | - | - | - | - | ***7.438*** | - | - | - | - | - | - | - | - | - | - | - | - |
| **Gross/Weapon System Cost** | - | - | - | - | - | **7.438** | - | - | - | - | - | **25.050** | - | - | - | - | - | **25.050** |

(†) indicates the presence of a P-5a

| Exhibit P-5a, Procurement History and Planning: FY 2018 Army | | Date: May 2017 |
|---|---|---|
| Appropriation / Budget Activity / Budget Sub Activity: 2035A / 02 / 98 | P-1 Line Item Number / Title: B88801 / BCT Emerging Technologies | Item Number / Title [DODIC]: B88801 / BCT Emerging Technologies |

| Cost Elements | OCO | FY | Contractor and Location | Method/Type or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($ K) | Specs Avail Now? | Date Revision Available | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWTV | | 2018 | TBD / TBD | TBD | TBD | Mar 2018 | May 2018 | 3 | 1,500.000 | | | |
| VROD/VMAX | | 2018 | Other Government Agency / TBD | TBD | TBD | Dec 2017 | May 2018 | 29 | 387.310 | | | |
| VROD/VMAX Fielding | | 2018 | Other Government Agency / TBD | TBD | TBD | May 2018 | May 2018 | 1 | 2,035.000 | | | |
| EWPMT Thick Client Fielding | | 2018 | Raytheon / TBD | TBD | TBD | Jan 2018 | May 2018 | 1 | 1,445.000 | | | |
| VROD/VMAX Services | | 2018 | Other Government Agency / TBD | TBD | TBD | May 2018 | May 2018 | 1 | 747.000 | | | |
| EWPMT Services | | 2018 | MTEQ / TBD | TBD | TBD | Jan 2018 | May 2018 | 1 | 438.000 | | | |
| Prophet Services | | 2018 | General Dynamics / TBD | TBD | TBD | Jan 2018 | May 2018 | 1 | 500.000 | | | |
| Fielding | | 2016 | TBD / TBD | Various | TBD | Mar 2017 | May 2017 | 1 | 7,438.000 | | | |

**Remarks:**
These hardware/software products will be acquired either through existing Army contracts and/or production options.