ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2005

BUDGET ACTIVITY

7 - Operational system development

PE NUMBER AND TITLE

0303140A - Information Systems Security Program

| | COST (In Thousands) | FY 2 □ 4 | FY 2□5 | FY 2□6 | FY 2□7 | FY 2□8 | FY 2□9 | FY 2□1□ | FY 2□11 | Cost to | Total Cost |
|-----|-----------------------------------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|------------|
| | | Actual | Estimate | Complete | |
| | Total Program Element (PE) Cost | 19991 | 28618 | 229□3 | 24282 | 21718 | 238□2 | 32544 | 34□2□ | | 23 🖪 🖰 |
| 491 | INFORMATION ASSURANCE DEVELOPMENT | 7208 | 7855 | 6380 | 7445 | 5028 | 5711 | 12167 | 14875 | 0 | 87688 |
| 501 | ARMY KEY MGT SYSTEM | 1311 | 1351 | 1482 | 1555 | 1006 | 1044 | 1922 | 0 | 0 | 10884 |
| 50B | BIOMETRICS | 11472 | 19412 | 15041 | 15282 | 15684 | 17047 | 18455 | 19145 | 0 | 131737 |
| | | | | | | | | | | | |

A. Mission Description and Budget Item Justification: The Communications Security Equipment Program develops Information Systems Security (ISS) equipment and techniques required to combat threat Signal Intelligence capabilities and to insure the integrity of data networks. The Army's Research Development Test and Evaluation (RDTE) ISS program objective is to implement National Security Agency (NSA) developed security technology in Army information systems. Communications Security Equipment Technology (COMSEC) ensures total signal and data security for all Army information systems, to include any operational enhancement and specialized Army configurations. The Army Key Management System (AKMS) automates key generation and distribution while supporting joint interoperability. It provides communications and network planning with key management. AKMS is a part of the management/support infrastructure for the Warfighter Information Network - Tactical (WIN-T) program. Additional modifications to the AKMS baseline are required to support the emerging WIN-T architecture. System security engineering, integration of available Information Security (INFOSEC) products, development, and testing are provided to ensure that C4I systems are protected against malicious or accidental attacks. Several joint service/NSA working groups exist in the area of key management in order to avoid duplication and assure interoperability between all systems, including the establishment of standards and testing. The Defense Information Systems Agency (DISA) Multi-Level Security (MLS) working group coordinates all the different ongoing technology efforts. This program will also develop, integrate, and demonstrate C2 Protect Common Tools into C4I systems that manage, protect, detect and react to C2 system vulnerabilities, threats, reconfigurations, and reconstitutions. Modeling, simulation, and risk management tools will be used to develop C2 Protect capabilities, enabling the warfighter to distribute complete and unaltered information and maint

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit) BUDGET ACTIVITY 7 - Operational system development PE NUMBER AND TITLE 0303140A - Information Systems Security Program

| B. Program Change Summary | FY 2 □ 5 | FY 2 □ 6 | FY 2 □ 7 |
|--------------------------------------|------------------|------------------|----------|
| Previous President's Budget (FY 2□5) | 24725 | 25684 | 26522 |
| Current Budget (FY 2 16/2 17 PB) | 28618 | 229□3 | 24282 |
| Total Adjustments | 3893 | -2781 | -224□ |
| Net of Program/Database Changes | | | |
| Congressional Program Reductions | -43□ | | |
| Congressional Rescissions | | | |
| Congressional Increases | 51 □ | | |
| Reprogrammings | | | |
| SBIR/STTR Transfer | -777 | | |
| Adjustments to Budget Years | | -2781 | -224□ |

FY 6/17 funds realigned to higher Army requirement

| ARMY RDT&E BUDGET IT | EM JUS | STIFIC | ATION | (R2a | Exhibi | Fe | | | | |
|--|------------------|---|--------------------|-----------------------|-----------------|---------------------|------------------|---------------------|------------------|------------|
| BUDGET ACTIVITY 7 - Operational system development | | PE NUMBER 0303140<i>F</i> Program | | PROJECT 491 | | | | | | |
| COST (In Thousands) | FY 2□4 Actual | FY 2□5 Estimate | FY 2□6 Estimate | FY 2□17 Estimate | FY 2□8 Estimate | FY 2□19 Estimate | FY 2□1□ Estimate | FY 2□11 Estimate | Cost to Complete | Total Cost |
| 491 INFORMATION ASSURANCE | 7208 | 785 | 6380 | 7445 | 5028 | 5711 | 12167 | 14875 | 0 | 87688 |

A. Mission Description and Budget Item Justification: This project implements National Security Agency (NSA) developed security technology in Army information systems. Project objectives are to provide systems security mechanisms through encryption, trusted software or standard operating procedures, and to integrate these mechanisms into specified systems, securing operations in as transparent a manner possible. This entails architecture studies, modeling, system integration and testing, installation kits, and certification and accreditation of Automation Information Systems. Project will also assess, develop, integrate and demonstrate C2 Protect Common tools (hardware and software) providing protection for fixed infrastructure post, camp and station networks as well as efforts on tactical networks. The cited work is consistent with Strategic Planning Guidance, and the Army Modernization Plan. Work is performed by the Communications-Electronics Research Development and Engineering Center, Ft. Monmouth NJ.

| Accomplishments/Planned Program | FY 2004 | FY 2005 | FY 2006 | FY 2007 |
|--|---------|---------|---------|---------|
| - Provide Secure Gateway development and testing of the developing products. | 7208 | 4687 | 1969 | 2248 |
| - Conduct exploration and validation of Commercial Off the Shelf and NSA information security products. Development of | | | | |
| installation kits for network security equipment. | | | | |
| - Investigate Low Probability of Intercept LPI)/Low Probability of Detection LPD) techniques for integration in the Global | | | | |
| Information Grid IGIG) Architecture. | | | | |
| - Support High Assurance Internet Protocol Encryptor ﷺ Support High Assurance Internet Protocol Encryptor (HAIPE) Inline Networking Encryption (INE) test and integration into the | | | | |
| tactical net-centric networks. | | | | |
| - Provide technical engineering support on Army Cryptographic modernization program. | | | | |
| - Provide technical engineering support on Electronic Key Management System, Key Management Plans and Key | | | | |
| Management Infrastructure programs. | | | | |
| - Support future narrow band digital terminal devices, test and integration into the tactical circuit switching devices. | | | | |
| - Support development of cross domain security solution sets to be integrated into the GIG architecture | | | | l . |

| ARMY RDT&E BUDGET I | TEM JU | JSTIFI | CATIC |)N (R2 | a Exh | ibit) | | Febru | ary 2005 | |
|--|--|--|-------------|-------------|---------|----------|---------|----------|--------------------|------------|
| BUDGET ACTIVITY 7 - Operational system development | | | | | | n Syster | ns Secu | rity | PROJ 491 | ECT |
| Accomplishments/Planned Program (continued) | | | | | | | FY 200 | 4 FY 200 | 5 FY 2006 | FY 2007 |
| Developed a Government Off the Shelf GOTS) Purge Tevaluated and recommended changes to several Informmodularity fielding effort. Supported Joint User Interoperability Communication Expevelop and evaluate information assurance tools for the Select, assess, develop, integrate, stress and demonstrations (COTS/GOTS) information assurance tools for tactical and Tailor tool enhancements for unique tactical applications Enhance secure Wireless LAN technologies targeted for | ation Assurar periment JU tactical warfi ate advanced d/or sustaining | ice IA) too ICE) effort. ghter. commercia g base sec | Is targeted | elf/governm | | | | 316 | 8 4411 | 5197 |
| Totals | | | | | | | 7208 | 785 | 5 6380 | 7445 |
| 3. Other Program Funding Summary | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | To Compl | Total Cos |
| OPA TA0600 | 118017 | 114188 | 72994 | 56382 | 47400 | 47444 | 0 | 0 | Continuing | Continuing |

C. Acquisition Strategy: The objective of this project is to develop, integrate and validate hardware and software solutions that will secure current and objective architecture and electronic business/commerce transactions. FY 6 and beyond focuses on completing development and evaluation of C2 Protect tools and the procurement and institutionalization of information assurance related hardware and software, as well as techniques and procedures. The objective of the DOD CRYPTO Modernization Program is to provide adaptive, flexible, and programmable cryptographic systems using best practices, lessons learned and programmatic management to meeth the challenge of modernizing the Army's aging cryptographic systems.

ARMY RDT&E COST ANALYSIS(R3)

February 2005

BUDGET ACTIVITY 7 - Operational system development

PE NUMBER AND TITLE
0303140A - Information Systems Security Program

PROJECT 491

| I. Product Development | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | Total Cost | Targe Value o Contrac |
|---|--|---|-------------------|-----------------|--------------------------|-----------------|--------------------------|-----------------|--------------------------|----------|---------------|-----------------------------|
| a . System Engineering | | CECOM, RDEC | 30810 | 3618 | 1Q | 3730 | | 4795 | | Continue | 42953 | Continue |
| b . Hardware/Software Engineering | Various | CECOM, RDEC | 5224 | 0 | | 0 | | 0 | | 0 | 5224 | (|
| c . C2 Protect Common Tools | Subcontract s reflected in d. through k. below | Subcontracts reflected in d. through k. below | 4504 | 1800 | 1Q | 1800 | 1Q | 1800 | 1Q | 0 | 9904 | (|
| d . Engineering Support | Various | CECOM, RDEC | 7847 | 0 | | 0 | | 0 | | Continue | Continue | (|
| e . Engineering Support | T&M | SRI Int., Eatontown, NJ | 1348 | 250 | 1Q | 250 | 1Q | 250 | 1Q | 0 | 2098 | (|
| f . Secure Management System | C-Reimburs | MITRE, McLean, VA | 1113 | 0 | | 0 | | 0 | | 0 | 1113 | (|
| g . Malicious Mobile Code Analysis | T&M | ILEX Tinton Falls, NJ | 577 | 0 | | 0 | | 0 | | 0 | 577 | (|
| h . C2 Protect ATD Engineering Support | T&M | Madentech Consulting | 373 | 600 | 1Q | 600 | 1Q | 600 | 1Q | 0 | 2173 | (|
| i . Tactical/Strategic Interface Development | T&M | Lockheed Martin, Tinton Falls, NJ | 370 | 0 | 1Q | 0 | 1Q | 0 | 1Q | 0 | 370 | (|

ARMY RDT&E COST ANALYSIS(R3)

February 2005

BUDGET ACTIVITY
7 - Operational system development

PE NUMBER AND TITLE
0303140A - Information Systems Security Program

PROJECT **491**

| I. Product Development | Contract | Performing Activity & | Total | FY 2005 | FY 2005 | FY 2006 | FY 2006 | FY 2007 | FY 2007 | Cost To | Total | Target |
|--|----------|-------------------------------------|----------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| ıcontinued) | Method & | Location | PYs Cost | Cost | Award | Cost | Award | Cost | Award | Complete | Cost | Value of |
| | Туре | | | | Date | | Date | | Date | | | Contract |
| j . Tactical Intrusion Detection System | T&M | MIT, Cambridge, MA | 135 | 0 | | 0 | | 0 | | 0 | 135 | 0 |
| k . Model & Simulation for Information Assurance Trainer | T&M | Atlantic Consulting Services, GA | 1020 | 0 | | 0 | | 0 | | 0 | 1020 | 0 |
| I. DHIAP | Various | CIO/G6 BMO | 12027 | 0 | | 0 | | 0 | | 0 | 12027 | 0 |
| m . DoD Biometrics Program | TBD | CIO/G6 BMO | 18280 | 0 | | 0 | | 0 | | 0 | 18280 | 0 |
| n . Crypto Mod | Various | CECOM, RDEC | 455 | 587 | 2Q | 0 | | 0 | | 0 | 1042 | 0 |
| o. SEGATE | CPFF | VIASAT, Carlsbad, CA | 1500 | 1000 | 2Q | 0 | | 0 | | 0 | 2500 | 0 |
| p . Maden Technologies | | Gaithersburg, Md. | 247 | 0 | | 0 | | 0 | | 0 | 247 | 0 |
| Subtotal: | | | 85830 | 7855 | | 6380 | | 7445 | | Continue | Continue | Continue |

| 7 - Operational sys | stem deve | lopment | | 03 | 03140A - | Informat | tion Syst | ems Se | curity Pr | ogram | 491 | |
|-----------------------------------|------------------------------|--------------------------------|-------------------|-----------------|--------------------------|-----------------|--------------------------|-----------------|--------------------------|----------|---------------|-----------------------------|
| II. Support Cost | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | Total Cost | Targe Value o Contrac |
| Subtotal: | | | 0 | 0 | | 0 | | 0 | | 0 | 0 | |
| Remarks: Not Applicable | | | | | | | | | | | | |
| II. Test and Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | Total Cost | Targe Value o Contrac |
| Subtotal: | | | 0 | 0 | | 0 | | 0 | | 0 | 0 | |
| Remarks: Not Applicable | • | | | | | | | | | | | |
| V. Management Services | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | Total Cost | Targe Value d Contra |
| | | | 0 | 0 | | 0 | | 0 | | 0 | 0 | |
| Subtotal: | | | | | | | | | | | | |
| Subtotal: Remarks: Not Applicable | | | | | | | | | | | | |

| Schedule Detail (| R4a Exhib | it) | | | | | Febru | ary 2005 | |
|--|-----------|---------|---------|---------|---------|---------|---------|----------|--|
| BUDGET ACTIVITY 7 - Operational system development | | | | | | | | | |
| Schedule Detail | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | |
| · Full fielding of AIRTERM □KY-100) | | | | | | | | | |
| TISM | | | | | | | | | |
| · Field Testing Prototype Development Initiation) | 1-4Q | | | | | | | | |
| C2 Protect | | | | | | | | | |
| - Network Access Control | 1-4Q | 1-4Q | 1-4Q | 1-4Q | | | | | |
| - Intrusion Detection Control | 1-4Q | 1-4Q | 1-4Q | 1-4Q | | | | | |
| - Host Machine Vulnerabilities | 1-4Q | 1-4Q | 1-4Q | 1-4Q | | | | | |
| - Purge Tools | 1-4Q | 1-4Q | 1-4Q | 1-4Q | | | | | |
| - Security Management | 1-3Q | | | | | | | | |
| TACLANE | | | | | | | | | |
| Type Classification ©onditional) | | | | | | | | | |
| Acquisition of Installation Kits | 1-4Q | 1-4Q | | | | | | | |
| Type Classification Standard ☐C Standard) | 1-4Q | 1-4Q | | | | | | | |
| INE Upgrades | 1-4Q | 1-4Q | 1-4Q | | | | | | |
| LPI Techniques - Investigate Techniques | 1-4Q | | | | | | | | |
| LPI - Prototype & Test | | 1-4Q | 1-4Q | 1-4Q | | | | | |

| ARMY RDT&E BUDGET IT | EM JUS | STIFIC | ATION | (R2a | Exhibit | Fe | | | | |
|--|------------------|---|--------------------|-----------------|-----------------|--------------------|---------------------|------------------|------------------|------------|
| BUDGET ACTIVITY 7 - Operational system development | | PE NUMBER AND TITLE 0303140A - Information Systems Security Program | | | | | | | | |
| COST (In Thousands) | FY 2□4 Actual | FY 2□5 Estimate | FY 2□6 Estimate | FY 2□7 Estimate | FY 2□8 Estimate | FY 2□9 Estimate | FY 2□1□ Estimate | FY 2□11 Estimate | Cost to Complete | Total Cost |
| 5□ ARMY KEY MGT SYSTEM | 1311 | 135 | 1 1482 | 1555 | 1006 | 1044 | 1922 | 0 | 0 | 10884 |

A. Mission Description and Budget Item Justification: Provides Commander with an automated capability to plan, engineer, distribute, and manage all systems that employ Electronic Key, Electronic Protection (EP), and Signal Operating Instructions (SOI).

- AKMS consists of two Workstations, one hosting Local COMSEC Management Software (LCMS) for COMSEC Management, one hosting Automated Communication Engineering System (ACES) for Cryptonet Planning and the Data Transfer Device (DTD)/Simple Key Loader (SKL).
- LCMS is the COMSEC accounting and generation software that provides Information Systems with Cryptographic Key capability.
- ACES provides Information Systems with Cryptonet Planning & SOI/EP Fill for Combat Net.
- DTDs/SKLs move the ACES/LCMS data to End Crypto Units (ECUs).

| Accomplishments/Planned Program | FY 2004 | FY 2005 | FY 2006 | FY 2007 |
|---|---------|---------|---------|---------|
| Continue development of next set of software tools for the AKMS workstation development environment to support Army | 1022 | 1053 | 1175 | 1239 |
| Campaign Plan (ACP). | | | | |
| Engineering Support | 289 | 298 | 307 | 316 |
| Totals | 1311 | 1351 | 1482 | 1555 |

| ARMY RDT&E BUDGET I | | February 2005 | | | | | | | | |
|--|---------|---------------|---------|---------|----------|---------|---------|---------|----------|------------|
| BUDGET ACTIVITY 7 - Operational system development | | | | | n Systeı | ms Secu | ırity | ECT | | |
| | | | | | | | | | | |
| B. Other Program Funding Summary | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | To Compl | Total Cost |
| BA1201 TSEC - AKMS | 2587 | 2777 | 2994 | 3165 | 3227 | 3416 | 3828 | 0 | 0 | 21994 |

C. Acquisition Strategy: Milestone III was conducted in JUN 99 and the acquisition strategy and type classification for LCMS was approved. LCMS completed fielding to all COMSEC custodians in FEB \square 2 and the IOC for ACES was completed in 2Q FY \square 2. Because of National Security Agency's (NSA) imposition of additional security requirements, the AKMS acquisition strategy to procure Simple Key Loaders was updated in an Acquisition Decision Memorandum (ADM) approved by the PEO C3T Milestone Decision Authority (MDA) on $1\square JUN \square$ 2. The production contract for the Simple Key Loader (SKL), the upgrade to the DTD, was awarded in FY \square 3. The RDTE effort to upgrade ACES v1.7 Block II software for the LCMS continues through FY \square 5. Upon completion, ACES Block III software upgrade effort is scheduled to begin. The SKL software block I and II upgrades began in FY \square 4 and are scheduled to continue into FY- \square 6, with the Block III initiating upon completion. Functional Qualification testing will be conducted to validate the upgrades.

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ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 7 - Operational system development 0303140A - Information Systems Security Program 501 I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Cost Complete Cost Value of Award Award Cost Award Contract Type Date Date Date SYPRIS, Tampa, FL a . Software development C/T&M 21009 0 0 21009 0 C/T&M ISS, Tinton Falls, NJ b . Software 4148 1053 2Q 1175 2Q 1239 Continue Continue 0 development/Upgrade c. EKMS **MIPR** Navy, Washington 3900 0 0 0 3900 0 29057 1053 1175 1239 Continue Continue 0 Subtotal: II. Support Cost Performing Activity & FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Contract Total Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Contract Type Date Date Date 0 0 0 0 0 Subtotal:

Exhibit R-3

Cost Analysis

| | ARM | Y RDT&E CO | ST AN | ALYS | IS(R3) | | | | Feb | ruary 20 | 005 | |
|-------------------------------------|------------------------------|---|-------------------|--------------------|------------------------------|---------------------|--------------------------|-----------------|--------------------------|----------|----------------------|-----------------------------|
| BUDGET ACTIVITY 7 - Operational sys | tem deve | lopment | | PE N 030 | umber an:)3140A - | D TITLE Informat | tion Syst | ems Se | | _ | PROJEC 501 | |
| III. Test and Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | | Targe Value o Contrac |
| a . Testing | MIPR | SPAWAR, San Diego, CA | 25 | 0 | | 0 | | 0 | | 0 | 25 | (|
| Subtotal: | | | 25 | 0 | | 0 | | 0 | | 0 | 25 | C |
| Remarks: Not Applicable | | | | | | | | | | | | |
| IV. Management Services | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | | Targe Value o Contrac |
| a . Contractor Engineering | | TELOS System Integration, Ashburn, VA | 154 | 0 | | 0 | | 0 | | 0 | 154 | C |
| b . Government Engineeering | MIPR | CECOM, Fort Monmouth, NJ | 955 | 298 | 2-4Q | 307 | 2-4Q | 316 | 2-4Q | Continue | Continue | C |
| Subtotal: | | | 1109 | 298 | | 307 | | 316 | | Continue | Continue | C |
| | | | | | | | | | | | | |
| | | | | | | 1482 | | 1555 | | Continue | | |

| Schedule | Pro | ofile | e (F | R 4 | ŀΕ | khik | oit |) | | | | | | | | Feb | ruar | y 200 | 5 | | |
|---|-----|-------|-------|------------|-------|--------|-------|----------------------------|------|---------|---------------|---------|-----------|------|--------|-------|-------|-------|-----|---------------------|-------|
| BUDGET ACTIVITY 7 - Operational system developmen | nt | | | | | | | E NUMBE)30314 (| | | | on Sy | stems | s Se | | | | | PRC |)јЕСТ 601 | |
| Event Name | _ | FY 0 | | | FY | | | FY 06 | | FY | | | Y 08 | | FY 0 | | | Y 10 | | FY ' | |
| Local COMSEC Management Software | 1 | 2 3 | 5 4 | H | 2 | 3 4 | 1 | 2 3 | 4 | 1 2 | 3 4 | 1 2 | 3 4 | 1 | 2 ; | 3 4 | 1 2 | 2 3 | 4 | 1 2 | 3 4 |
| (1) LCMS Tier 1 IOC | | 1 | LCN | ıs ' | Tier | 1 Init | ial C | Operatio | nal | Capabil | ity | | | | | | | | | | |
| LCMS Tier 2 Phase 4 | | | | | | LCMS | So | oftware I | Deve | lopmer | nt/Fiel | ding | | | | | | | 1 | | |
| Automated Communications Engineering Software (ACES) | | | | | | | | | | | | | | | | | | | | | |
| ACES NET Fielding | | | | _ | | ACES | NE | T/Fieldi | ng | | | | | | | | | | 1 | | |
| ACES V1.6 Block I Upgrade, ACES V1.□ Block II Upgrades, ACES Block III Upgrades | ACE | ES V1 | 1.6 | AC | CES ' | V1.7 | | | | Fu | ture <i>A</i> | CES | BLK III | Upg | ırades | | | | | | |
| Simple Key Loader/Data Transfer Device (SKL/DTD) (Tier 3) | | | | | | | | | | | | | | | | | | | | | |
| SKL Hardware Production/Fielding | | | | | | | | Hard | war | e Produ | ction | /Fieldi | ng | | | | | | | | |
| SKL FQT | | FQ | Т | | | | | | | | | | | | | | | | 1 | | |
| SKL LUT | | LU | JT | | | | | | | | | | | | | | | | 1 | | |
| (2) SKL FAT | | | | 2 | | | | | | | | | | | | | | | 1 | | |
| SKL Block Upgrades | | | DTD/ | /SK | L S/ | W BL | ΚI | & II | | | | | | | | | | | 1 | | |
| SKL Block Upgrades | | | | | | | | | | | TD/S | KL Blo | ock III (| Upgı | rade | | | | 1 | | |
| (3) SKL FUE | | | | | | 3 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

□3 □314□A (5□1) ARMY KEY MGT SYSTEM

| Schedule Detail | | February 2005 | | | | | | | |
|---|---------|---------------|---------|---------|---------|---------|---------|---------|---------------------|
| BUDGET ACTIVITY 7 - Operational system development PE NUMBER AND TITLE 0303140A - Information Systems Security Progra | | | | | | | | | rojec 501 |
| Schedule Detail | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | |
| LCMS Tier 1 IOC | 3Q | | | | | | | | • |
| SKL LUT | 2Q | | | | | | | | |
| SKL FAT | | 1Q | | | | | | | |
| ACES V1.7 Blk II Completion | | | 4Q | | | | | | |
| SKL FUE | | 3Q | | | | | | | |
| SKL Software Blk I & II Upgrade Completion | | 4Q | | | | | | | |
| SKL BLock III Upgrade Start | | | | 1Q | | | | | |

| ARMY RDT&E BUDGET ITE | M JUS | STIFIC | ATION | (R2a l | Exhibi [.] | t) | Fe | ebruary 2 | 2005 | |
|--|--------|----------|---|----------|---------------------|----------|----------|-----------|-----------------------|------------|
| BUDGET ACTIVITY 7 - Operational system development | | 1 | E NUMBER 0303140 <i>A</i> Program | | | ystems S | Security | | PROJECT 50B | |
| COST (In Thousands) | FY 2□4 | FY 2□5 | FY 2□6 | FY 2□7 | FY 2□8 | FY 2□9 | | FY 2□11 | Cost to | Total Cost |
| | Actual | Estimate | Estimate | Estimate | Estimate | Estimate | Estimate | Estimate | Complete | |
| 5□B BIOMETRICS | 11472 | 19412 | 15041 | 15282 | 15684 | 17047 | 18455 | 19145 | 0 | 131737 |

A. Mission Description and Budget Item Justification: SA is the Executive Agent for the DoD Biometrics (automated methods of human recognition) Program. The DoD BMO supports biometric research, testing, evaluation, and related activities through its Biometric Fusion Center (BFC). The BFC is the technical element of the BMO, providing DoD's biometric testing and evaluation capability, operational support, and future housing for DoD biometric repository functions. The DoD Biometrics Program focuses on an enterprise approach, emphasizing interoperability and utilizing tested biometric technologies for incorporation into DoD business processes. This program was previously funded under PE 314A, Project 491. This system supports the Current to Future transition path of the Transformation Campaign Plan (TCP).

| Accomplishments/Planned Program Conduct test and evaluation of biometric commercial off-the-shelf hardware and software to determine suitability for use within DoD. Conduct modeling and simulation efforts to support operational evaluation. Conduct DoD-wide working groups to synthesize enterprise biometric requirements and abilities into biometrics technology demonstrations and pilot activities. Support biometric integration in existing command and control and MIS systems. | FY 2004 11472 | FY 2005 19412 | FY 2006 15041 | FY 2007 15282 | |
|---|------------------|------------------|------------------|------------------|--|
| Totals | 11472 | 19412 | 15041 | 15282 | |

□3 □3 14 □A (5 □B) Item No. 171 Page 15 of 19
BIOMETRICS 312

| ARMY RDT&E BUDGET | ITEM JU | JSTIFI | CATIC | ON (R2 | 2a Exh | ibit) | | Febru | ary 2005 | |
|--|---------|---------|---------|---------|---------|----------|---------|---------|---------------------|------------|
| BUDGET ACTIVITY 7 - Operational system development | | | | | | n Systei | ms Secu | ırity | PROJE 50B | ECT |
| | , | | | | | | | | | |
| B. Other Program Funding Summary | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | To Compl | Total Cost |
| TA0600 - Information Systems Security | 4965 | 1462 | 1371 | 1410 | 1404 | 1434 | 1463 | 1492 | 0 | 15001 |

Program

<u>C. Acquisition Strategy:</u> The objective of this project is to develop DoD Automated Biometric Identification System (ABIS) to provide technological solutions and business practices that support the Global War on Terrorism. FY \Box 5 focus will leverage technologies for sharing biometric data on persons of interest that are being detained by DoD entities. FY $2\Box$ 6 and beyond will continue to support the testing and evaluation of COTS products and other analysis and evaluation of applicable technologies, as well as finalize and synthesize an interoperable biometrics enterprise approach.

□3□314□A (5□B) Item No. 171 Page 16 of 19
BIOMETRICS 313 Exhibit R-2A
Budget Item Justification

ARMY RDT&E COST ANALYSIS(R3) February 2005 BUDGET ACTIVITY PE NUMBER AND TITLE PROJECT 7 - Operational system development 0303140A - Information Systems Security Program 50B I. Product Development Contract Performing Activity & Total FY 2005 FY 2005 FY 2006 FY 2006 FY 2007 FY 2007 Cost To Total Target Method & Location PYs Cost Cost Award Cost Award Cost Award Complete Cost Value of Date Date Date Contract Type a . Enterprise Various Various 11129 19412 1-4Q 15041 2Q 15282 1-4Q Continue 60864 Development 0 0 0 b. SBIR/STTR 343 343 11472 19412 15041 15282 Continue 61207 0 Subtotal: FY 2005 FY 2006 FY 2007 FY 2007 II. Support Cost Performing Activity & FY 2006 Contract Total FY 2005 Cost To Total Target **PYs Cost** Method & Location Cost Cost Award Cost Award Complete Cost Value of Award Type Date Date Date Contract a.N/A 0 0 0 0 0 0 0 0 0 Subtotal:

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BIOMETRICS

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Exhibit R-3 Cost Analysis

| | ARM | Y RDT&E CO | ST AN | ALYS | IS(R3) | | | | Feb | ruary 20 | 05 | | |
|-------------------------------------|------------------------------|--------------------------------|-------------------|-------------------|------------------------------|---------------------|--------------------------|-----------------|--------------------------|----------|---------------|-----------------------------|--|
| BUDGET ACTIVITY 7 - Operational sys | stem deve | lopment | | PE N 03 | iumber an 03140A - | D TITLE Informat | ion Syst | ems Se | Security Program 50B | | | | |
| II. Test and Evaluation | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | Total Cost | Targe Value o Contrac | |
| a . N/A | 71- | | 0 | 0 | | 0 | | 0 | | 0 | 0 | (| |
| Subtotal: | | | 0 | 0 | | 0 | | 0 | | 0 | 0 | (| |
| | | | | | | | | | | | | | |
| V. Management Services | Contract Method & Type | Performing Activity & Location | Total PYs Cost | FY 2005 Cost | FY 2005 Award Date | FY 2006 Cost | FY 2006 Award Date | FY 2007 Cost | FY 2007 Award Date | Complete | Total Cost | Targe Value o Contrac | |
| a. N/A | Ž1 | | 0 | 0 | | 0 | | 0 | | 0 | 0 | (| |
| Subtotal: | | | 0 | 0 | | 0 | | 0 | | 0 | 0 | (| |
| | | | | | | | | | | | | | |
| Project Total Cost: | | | 11472 | 19412 | | 15041 | | 15282 | | Continue | 61207 | C | |

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Exhibit R-3 Cost Analysis

| Schedule Detail (R4a Exhibit) February 2005 | | | | | | | | | | | | |
|--|----------|--------------------------------|-------------------------|---------|------------------------------|---------|---------|---------|--|--|--|--|
| BUDGET ACTIVITY 7 - Operational system development | PE NUMBE | ER AND TIT 0A - Info | TLE ormatio n | ns Secu | PROJECT Security Program 50B | | | | | | | |
| Schedule Detail | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | | | | |
| Enterprise Development | 1-4Q | 1-4Q | 1-4Q | 1-4Q | 1-4Q | 1-4Q | | | | | | |
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