Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

Date: February 2015

Appropriation/Budget Activity

m DE (

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 5: System

PE 0604280A I Joint Tactical Radio

Development & Demonstration (SDD)

,	,											,
COST (\$ in Millions)	Prior			FY 2016	FY 2016	FY 2016					Cost To	Total
COST (\$ III WIIIIOIIS)	Years	FY 2014	FY 2015	Base	oco	Total	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Cost
Total Program Element	-	30.752	9.827	9.861	-	9.861	6.154	5.757	10.291	9.866	-	82.508
162: Network Enterprise Domain (NED)	-	6.500	-	-	-	-	-	-	-	-	-	6.500
DZ5: Handheld, Manpack and Small Form Fit (JTRS HMS)	-	24.252	9.827	9.861	-	9.861	6.154	5.757	10.291	9.866	-	76.008

#### Note

FY2016 funding increase from Previous President's Budget to Current President's Budget (see Program Change Summary) funds the Rifleman Radio Operational Test for the full and open competition contract in support of Full Rate Production.

#### A. Mission Description and Budget Item Justification

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the US Army, US Air Force, US Navy, US Marine Corps and the Special Operations Command (SOCOM) communication 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS may be used for Unmanned Vehicles and other platform applications.

HMS is structured as a single program of record. The program has completed the Engineering Manufacturing and Development Phase and received Milestone C approval on 17 June 2011 with Low Rate Initial Production configured radios.

HMS is currently executing an April 2014 approved acquisition strategy to procure modified non-developmental items (NDI) through full and open competition open to all potential industry partners. Phase 1 is to procure an NDI AN/PRC-154A Rifleman Radio (RR) for use in a classified environment. The RR ports the Soldier Radio Waveform (SRW)-Army managed waveform. Phase 2 is procuring an NDI AN/PRC-155 Manpack (MP) for use in a classified environment. Waveforms to be ported to HMS MP include: SRW, Single Channel Ground and Airborne Radio System (SINCGARS)-Army managed waveform, Satellite Communications (SATCOM)-Army managed waveform, and Mobile-User Objective System (MUOS)-Navy managed waveform.

The Army will award Multiple Firm Fixed-Price (FFP) IDIQ Contracts through a multiple step selection process:

- a. Award FFP Contracts and initial delivery orders to all qualified vendors based on technical acceptability and demonstrations (4QFY15 for RR and 1QFY16 for MP).
- b. Award second delivery orders based on qualification test results (2QFY16 for RR and 3QFY16 for MP)
- c. Award FRP delivery orders based on operational assessments and best value trade off construct (2QFY17 for RR and 4QFY17 for MP).

PE 0604280A: Joint Tactical Radio

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Army

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
2040: Research, Development, Test & Evaluation, Army I BA 5: System	PE 0604280A I Joint Tactical Radio	
Development & Demonstration (SDD)		

Following full and open competition, qualified NDI RR and MP Radios will require operationally-relevant testing to inform a Full Rate Production decision and to support fielding to Capability Set units.

The FY 2016 budget will provide funding that is necessary to execute the required full and open competition contract strategy for the RR and MP products. Specifically, the funding is needed to conduct Operational Testing for the RR candidate products to demonstrate compliance with program requirements; assess effectiveness, suitability, and survivability; and to obtain material release for FRP. The funding will also support safety, spectrum supportability, and other certifications necessary to prepare the products for fielding.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	FY 2016 Total
Previous President's Budget	31.809	9.832	4.546	-	4.546
Current President's Budget	30.752	9.827	9.861	-	9.861
Total Adjustments	-1.057	-0.005	5.315	-	5.315
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
<ul> <li>SBIR/STTR Transfer</li> </ul>	-1.057	-			
<ul> <li>Adjustments to Budget Years</li> </ul>	-	-0.005	5.315	-	5.315

PE 0604280A: Joint Tactical Radio Army

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Exhibit R-2A, RDT&E Project Ju	stification	: PB 2016 A	rmy							Date: Feb	ruary 2015	
Appropriation/Budget Activity 2040 / 5					<b>R-1 Progra</b> PE 060428		•	•		umber/Nar	<b>ne)</b> rise Domain (	(NED)
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
162: Network Enterprise Domain (NED)	-	6.500	-	-	-	-	-	-	-	-	-	6.500
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### Note

FY 2014 HMS funding was split between projects DZ5 (Handheld, Manpack and Small Form Fit (JTRS HMS)) and 162 (Network Enterprise Domain (NED)) under PE 0604280A; In FY 2015 and out, HMS is funded in project DZ5 only.

A detailed description of mission and budget item justification, other program funding, and acquisition strategy for the rest of the HMS RDTE program funding is found under Project DZ5.

### A. Mission Description and Budget Item Justification

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the US Army, US Air Force, US Navy, US Marine Corps and the Special Operations Command (SOCOM) communication 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS may be used for Unmanned Vehicles and other platform applications.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: JTRS Network Enterprise Domain	6.500	-	-
Description: Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the US Army, US Air Force, US Navy, US Marine Corps and the Special Operations Command (SOCOM) communication 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS may be used for Unmanned Vehicles and other platform applications.			
FY 2014 Accomplishments:			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)		umber/Name)
2040 / 5	PE 0604280A I Joint Tactical Radio	162 / Netw	ork Enterprise Domain (NED)

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Complete Manpack Radio Government Developmental Test (GDT) and development efforts; Receive Information Assurance			
certification for Manpack Radios with Mobile User Objective System (MUOS) capability; Complete Rifleman Radio Operational			
Test; Complete Manpack Radio Follow-on Operational Test & Evaluation (FOT&E); and provide technical and engineering support			
for development efforts including preparing for Full Rate Production (FRP) for the Manpack and Rifleman Radio.			
Accomplishments/Planned Programs Subtotals	6.500	-	_

### C. Other Program Funding Summary (\$ in Millions)

			FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	<b>Base</b>	<u>000</u>	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	<b>Complete</b>	<b>Total Cost</b>
• RDTE: 0604280A/DZ5:	24.252	9.827	9.861	-	9.861	6.154	5.757	10.291	9.866	-	76.008
Handheld, Manpack and											
Small Form Fit (JTRS HMS)											
• OPA: B90210: <i>JTRS</i>	34.200	14.200	34.910	-	34.910	45.268	51.646	52.469	59.932	-	292.625
Cluster 5 (Handheld)											
OPA: B90215: JTRS (Manpack)	212.800	26.511	29.730	-	29.730	245.626	417.617	417.895	420.289	-	1,770.468

#### Remarks

HMS RDTE funding for FY 2013 and prior can be found under Program Element (PE) 0604280N, Budget Submission BA5 aligned under the Navy Joint Tactical Radio System (JTRS) Programs. HMS procurement funding can be found under Standard Study Number (SSN) B90210 JTRS Cluster 5 (Handheld) and SSN B90215 JTRS (Manpack).

President's Budget (PB) FY 2013 included the following programs' funding in Budget Item 162: Network Enterprise Domain (NED), Handheld Manpack Small Form Fit (HMS), Airborne Maritime Fixed (AMF), and Multifunctional Information Distribution System (MIDS). All programs associated with this line with the exception of JTRS HMS have been moved to their own PE lines. JTRS HMS is currently funded in PE 0604280A.

## D. Acquisition Strategy

HMS is currently executing an April 2014 approved acquisition strategy to procure modified non-developmental items (NDI) through full and open competition open to all potential industry partners. The first phase is to procure an NDI AN/PRC-154A Rifleman Radio for use in a classified environment. The Rifleman Radio ports the Soldier Radio Waveform (SRW)-Army managed waveform. The second phase is procuring an NDI AN/PRC-155 Manpack for use in a classified environment. Waveforms to be ported to HMS Manpack include: SRW, Single Channel Ground and Airborne Radio System (SINCGARS)-Army managed waveform, Satellite Communications (SATCOM)-Army managed waveform, and Mobile-User Objective System (MUOS)-Navy managed waveform.

#### **E. Performance Metrics**

N/A

Army

PE 0604280A: Joint Tactical Radio

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Arm	y			-					Date:	February	2015	
Appropriation/Budg 2040 / 5	et Activity	1							Number/N tical Radio			: (Numbe etwork En	r/ <b>Name)</b> terprise D	omain (l	IED)
Management Service	es (\$ in M	illions)		FY 2	014	FY :	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Project Management Office Support	Various	PEO C3T & CECOM: : APG, MD	0.000	0.638		-		-		-		-	-	0.638	0.638
		Subtotal	0.000	0.638		-		-		-		-	-	0.638	0.638
Product Developme	nt (\$ in M	illions)		FY 2	014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
HMS JTRS System, Design & Development	C/CPAF	General Dynamics C4 Systems: : Scottsdale, AZ	0.000	0.845		-		-		-		-	-	0.845	0.845
		Subtotal	0.000	0.845		-		-		-		-	-	0.845	0.845
Support (\$ in Millior	ıs)			FY 2	014	FY:	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
HMS JTRS Engineering/ Technical Support	Various	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC, Various: : APG, MD; Various	0.000	1.408		-		-		-		-	-	1.408	1.408
	-	Subtotal	0.000	1.408		-		-		-		-	-	1.408	1.408
Test and Evaluation	(\$ in Milli	ons)		FY 2	014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Follow On Delta Development & Testing	Various	EPG, AEC, MBL, ARLSLAD, CERDEC, OTC, JITC:: Ft. Benning,	0.000	3.609		-		-		-		-	-	3.609	3.609

PE 0604280A: Joint Tactical Radio

Army

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Exhibit R-3, RDT&E P	roject Co	st Analysis: PB	2016 Army	,							_	Date:	February	2015	
Appropriation/Budge 2040 / 5	t Activity						•	•	umber/Na ical Radio	•		(Number etwork En	,	Domain (I	VED)
Test and Evaluation (	\$ in Millio	ns)		FY:	2014	FY 2	2015		2016 ise		2016 CO	FY 2016 Total			
	Contract Method	Performing	Prior		Award		Award		Award		Award		Cost To	Total	Target Value of

Date

Cost

Date

Cost

Date

	Various													
	Subtotal	0.000	3.609		-		-		-		-	-	3.609	3.609
														Target
		Prior					FY 2	2016	FY 2	2016	FY 2016	Cost To	Total	Value of
		Years	FY 2	2014	FY 2	2015	Ва	se	00	co	Total	Complete	Cost	Contract
	Project Cost Totals	0.000	6.500		_		_		_		_	_	6.500	6.500

Cost

Remarks

**Cost Category Item** 

& Type

**Activity & Location** 

GA; APG, MD;

Years

Cost

Date

PE 0604280A: *Joint Tactical Radio* Army

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R-1 Line #79

Complete

Cost

Cost

Contract

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																		D	ate	e: F	ebrua	ary 2	015		
Appropriation/Budget Activity 2040 / 5				R-	- <b>1 Pro</b>	<b>ogran</b> 4280/	n Ele A / J	eme Ioint	nt (	Nun tica	nbe	er/N adio	ame	<del>)</del> )	P 1	<b>Proje</b> 62 /	ect ( Net	Nun wor	nbe k E	er/N	ame	e) e Doi	main	(NE	(D)
Event Name		FY 2014			Y 201			FY 2			-		201				2018				201			Y 20	
M. J. O. J. D. J.	1	2 3	4	1	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4
Manpack Government Developmental Test 4 (POR LRIP)	MP	_																							
Manpack Operational Test (POR LRIP)		MP OT																							
Rifleman Radio Operational Test (POR LRIP)		'	RROT																						

PE 0604280A: *Joint Tactical Radio* Army

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
2040 / 5	PE 0604280A I Joint Tactical Radio	162 / Netw	ork Enterprise Domain (NED)

# Schedule Details

	St	art	En	nd
Events	Quarter	Year	Quarter	Year
Manpack Government Developmental Test 4 (POR LRIP)	2	2014	2	2014
Manpack Operational Test (POR LRIP)	2	2014	3	2014
Rifleman Radio Operational Test (POR LRIP)	4	2014	4	2014

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2016 A	rmy							Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 5					_		t (Number/ Tactical Rad	•			ne) pack and Sm	nall Form
COST (\$ in Millions)  Prior Years  FY 2014  FY 2015				FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Years FY 2014 FY 2		9.827	9.861	-	9.861	6.154	5.757	10.291	9.866	-	76.008	
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

#### Note

FY 2014 HMS funding was split between projects DZ5 (Handheld, Manpack and Small Form Fit (JTRS HMS)) and 162 (Network Enterprise Domain (NED)) under PE 0604280A; In FY 2015 and out, HMS is funded in project DZ5 only.

#### A. Mission Description and Budget Item Justification

Handheld, Manpack, and Small Form Fit (HMS) is a materiel solution meeting the requirements for a Software Communications Architecture (SCA) compliant hardware system hosting SCA-compliant Government purpose rights software waveforms (applications). HMS is an Acquisition Category (ACAT) ID Program that encompasses specific requirements to support the US Army, US Air Force, US Navy, US Marine Corps and the Special Operations Command (SOCOM) communication 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 radios are software re-programmable, networkable multi-mode system (of systems) capable of simultaneous voice, data and video communications. The embedded Small Form Factor (SFF) versions of HMS may be used for Unmanned Vehicles and other platform applications.

HMS is structured as a single program of record. The program has completed the Engineering Manufacturing and Development Phase and received Milestone C approval on 17 June 2011 with Low Rate Initial Production configured radios.

HMS is currently executing an April 2014 approved acquisition strategy to procure modified non-developmental items (NDI) through full and open competition open to all potential industry partners. Phase 1 is to procure an NDI AN/PRC-154A Rifleman Radio (RR) for use in a classified environment. The RR ports the Soldier Radio Waveform (SRW)-Army managed waveform. Phase 2 is procuring an NDI AN/PRC-155 Manpack (MP) for use in a classified environment. Waveforms to be ported to HMS MP include: SRW, Single Channel Ground and Airborne Radio System (SINCGARS)-Army managed waveform, Satellite Communications (SATCOM)-Army managed waveform, and Mobile-User Objective System (MUOS)-Navy managed waveform.

The Army will award Multiple Firm Fixed-Price (FFP) IDIQ Contracts through a multiple step selection process:

- a. Award FFP Contracts and initial delivery orders to all qualified vendors based on technical acceptability and demonstrations (4QFY15 for RR and 1QFY16 for MP).
- b. Award second delivery orders based on qualification test results (2QFY16 for RR and 3QFY16 for MP)
- c. Award FRP delivery orders based on operational assessments and best value trade off construct (2QFY17 for RR and 4QFY17 for MP).

PE 0604280A: Joint Tactical Radio

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army				ebruary 2015	)
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604280A I Joint Tactical Radio	Project (N DZ5 I Han Fit (JTRS I	dheld, M	lame) anpack and S	Small Form
Following full and open competition, qualified NDI RR and MP Radio fielding to Capability Set units.	os will require operationally-relevant testing to inform a	Full Rate Pro	duction	decision and	to support
The FY 2016 budget will provide funding that is necessary to execut the funding is needed to conduct Operational Testing for the RR car suitability, and survivability; and to obtain material release for FRP. prepare the products for fielding.	ndidate products to demonstrate compliance with progra	am requireme	ents; ass	ess effectiver	ness,
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2014	FY 2015	FY 2016
Title: HMS JTRS			24.252	9.827	9.86
<b>Description:</b> Handheld, Manpack, and Small Form Fit (HMS) is a machine Communications Architecture (SCA) compliant hardware system has waveforms (applications). HMS is an Acquisition Category (ACAT) II the US Army, US Air Force, US Navy, US Marine Corps and the Special HMS provides voice and data communications to the tactical edge/nhalt, and stationary Line of Sight (LOS)/ Beyond Line of Sight (BLOS) HMS radios are software re-programmable, networkable multi-mode video communications. The embedded Small Form Factor (SFF) verigitations.	sting SCA-compliant Government purpose rights softward D Program that encompasses specific requirements to secial Operations Command (SOCOM) communication most disadvantaged Warfighter with an on the move, at S) capability for both dismounted personnel and platform a system (of systems) capable of simultaneous voice, day	are support leeds. the ns. ata and			
HMS is structured as a single program of record. The program has on Phase and received Milestone C approval on 17 June 2011 with Low		ment			
HMS is currently executing an April 2014 approved acquisition strate through full and open competition open to all potential industry partn Radio (RR) for use in a classified environment. The RR ports the So Phase 2 is procuring an NDI AN/PRC-155 Manpack (MP) for use in MP include: SRW, Single Channel Ground and Airborne Radio Syst Communications (SATCOM)-Army managed waveform, and Mobile-	ners. Phase 1 is to procure an NDI AN/PRC-154A Riflen oldier Radio Waveform (SRW)-Army managed waveforn a classified environment. Waveforms to be ported to HI em (SINCGARS)-Army managed waveform, Satellite	nan n. MS			
The Army will award Multiple Firm Fixed-Price (FFP) IDIQ Contracts a. Award FFP Contracts and initial delivery orders to all qualified ver (4QFY15 for RR and 1QFY16 for MP). b. Award second delivery orders based on qualification test results (	ndors based on technical acceptability and demonstration	ons			

PE 0604280A: Joint Tactical Radio

Exhibit R-2A, RDT&E Project Just											
	ification: PB	2016 Army							Date: Fe	oruary 2015	
Appropriation/Budget Activity 2040 / 5	er/Name) Padio	DZ5 / H	ct (Number/Name) Handheld, Manpack and Small FRS HMS)								
B. Accomplishments/Planned Pro	grams (\$ in N			FY 2014	FY 2015	FY 2016					
c. Award FRP delivery orders based for MP).	d on operation	al assessme	ents and bes	t value trade	off construc	t (2QFY17 fo	or RR and 40	QFY17			
Following full and open competition, Rate Production decision and to sup				require oper	ationally-rel	evant testing	to inform a	Full			
FY 2014 Accomplishments: Complete Manpack Radio Governm certification for Manpack Radios witl Test; Complete Manpack Radio Foll for development efforts including pre	h Mobile User low-on Operat	Objective S ional Test &	System (MUC Evaluation (	OS) capability (FOT&E); an	y; Complete d provide te	Rifleman Ra	idio Operation	nal			
<b>FY 2015 Plans:</b> The FY 2015 budget will provide fun for the Rifleman and Manpack produ Additionally, the funding will be utiliz	ucts. Specifica	ılly, the fund	ing is neede	d to conduct				gy			
FY 2016 Plans: The FY 2016 budget will provide funthe Rifleman and Manpack products candidate products to demonstrate of the obtain material release for FRP. To prepare the products for fielding.	s. Specifically, compliance wi	the funding th program	is needed to requirements	conduct Op s; assess eff	erational Te	sting for the suitability, ar	Rifleman Ra nd survivabili	adio ty; and			
				Accon	nplishments	s/Planned P	rograms Su	btotals	24.252	9.827	9.86
C. Other Program Funding Summ	ary (\$ in Milli	ons)									
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	EV 2020	Cost To	
• 0604280A/162: Network	24.252	-	<u> </u>	<u> </u>	<u>10(a)</u> -	<u>1 1 2017</u> -	-	1 1 2013	-	-	
∟nterprise Domain (NED)		44.000	04.040								24.25
Enterprise Domain (NED) • OPA: B90210: JTRS Cluster 5 (Handheld)	34.200	14.200	34.910	-	34.910	45.268	51.646	52.469	59.932	-	24.25 292.62

PE 0604280A: Joint Tactical Radio

Army

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604280A I Joint Tactical Radio	(	umber/Name) dheld, Manpack and Small Form HMS)

### C. Other Program Funding Summary (\$ in Millions)

			FY 2016	FY 2016	FY 2016					Cost To	
Line Item	FY 2014	FY 2015	<b>Base</b>	<u>oco</u>	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	<b>Complete</b>	<b>Total Cost</b>

#### Remarks

HMS procurement funding can be found under Standard Study Number (SSN) B90210 JTRS Cluster 5 (Handheld) and SSN B90215 JTRS (Manpack).

### **D. Acquisition Strategy**

HMS is currently executing an April 2014 approved acquisition strategy to procure modified non-developmental items (NDI) through full and open competition open to all potential industry partners. The first phase is to procure an NDI AN/PRC-154A Rifleman Radio for use in a classified environment. The Rifleman Radio ports the Soldier Radio Waveform (SRW)-Army managed waveform. The second phase is procuring an NDI AN/PRC-155 Manpack for use in a classified environment. Waveforms to be ported to HMS Manpack include: SRW, Single Channel Ground and Airborne Radio System (SINCGARS)-Army managed waveform, Satellite Communications (SATCOM)-Army managed waveform, and Mobile-User Objective System (MUOS)-Navy managed waveform.

### **E. Performance Metrics**

N/A

Army

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Exhibit R-3, RDT&E		<b>_</b>	U16 Army	<b>y</b>							1		February	2015	
Appropriation/Budge 2040 / 5	et Activity	y 						ement (N loint Tacti			DZ5 / H	: <b>(Numbe</b> i landheld, RS HMS)	r/ <b>Name)</b> Manpack	and Sma	all Form
Management Service	es (\$ in M	lillions)		FY 2	014	FY 2	015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Project Management Office Support	Various	PEO C3T & CECOM: : APG, MD	0.000	0.280		0.270		0.270		-		0.270	-	0.820	0.820
		Subtotal	0.000	0.280		0.270		0.270		-		0.270	-	0.820	0.820
Product Developme	nt (\$ in M	illions)		FY 2	014	FY 2	015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
HMS JTRS System, Design & Development	C/CPAF	General Dynamics D4 Systems: : Scottsdale, AZ	0.000	21.720		-		-		-		-	-	21.720	21.720
		Subtotal	0.000	21.720		-		-		-		-	-	21.720	21.720
Support (\$ in Million	pport (\$ in Millions)			FY 2014		FY 2	015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method Performing		Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
HMS JTRS Engineering/ Technical Support	Various	PEO C3T, ARL, ESP, CECOM, CERDEC, LCMC, Various: : APG, MD; Various	0.000	0.300		0.650		0.655		-		0.655	-	1.605	
		Subtotal	0.000	0.300		0.650		0.655		-		0.655	-	1.605	1.605
Test and Evaluation	(\$ in Milli	ions)		FY 2	014	FY 2	015	FY 2 Ba			2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Follow on Delta Development & Testing	Various	EPG, AEC, MBL, ARLSLAD, CERDEC, OTC, JITC, Various: : Ft	0.000	1.952		8.907		8.936		-		8.936	-	19.795	19.795

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Exhibit R-3, RDT&E Project Cost Analysis: PE	3 2016 Army				D	Date: February 2015				
Appropriation/Budget Activity 2040 / 5		_	ement (Number/N Ioint Tactical Radio	ם ר	<b>Project (Nur</b> DZ5 I Handh Fit (JTRS HI	eld, Manpa	e) ack and Small Form			
Test and Evaluation (\$ in Millions)			FY 2016	FY 20	16 FY 2	2016				

lest and Evaluation	(\$ IN WIIIII	ons)		FY 2	2014	FY 2	2015		ase		CO	Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location Huachuca, AZ; Ft Benning, GA; APG, MD; Various	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	0.000	1.952		8.907		8.936		-		8.936	-	19.795	19.795
			Duina					FW.	2046	EV	2046	EV 0040	Cont To	Total	Target

	Prior Years	FY 20	014	FY 2	2015	FY 2 Ba	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	24.252		9.827		9.861	-	9.861	-	43.940	43.940

Remarks

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Test and Evaluation (\$ in Millions)

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																				D	ate	): F	ebi	uar	y 2	015			
ppropriation/Budget Activity 040 / 5						Prog 16042								ame	<del>)</del> )		DZ5	11	lar	Nun ndhe HN	eld	, M				and Small Form			
Event Name		FY 2014			FY 2015				Y 20					201	_			/ 20			Ļ			019		-	_		_
Manpack Government Developmental Test 4 (POR LRIP)	MP (	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2		3	4	1	13	2	3	4	1	2	3	4
Manpack Operational Test (POR LRIP)		MP (	OT.																										
tifleman Radio Qualification Test (FOC)						1	RR	DΤ																					
IUOS MOTE							MUO	S MO	ÞΤΕ																				
Nanpack Qualification Test (FOC)									MP C																				
tifleman Radio Operational Test (FRP)									RE	ROT																			
Nanpack Operational Test (FRP)											N	PO	Γ																
R Performance Verification Test-2018																RR	PVT												
1P Performance Verification Test-2018																			MP	PVI									
R Performance Verification Test-2019																				١	RR	PVI	19						
1P Performance Verification Test-2019																								MP					
R Performance Verification Test-2020																									F	RR P	VT 2		
																												MP	P
1P Performance Verification Test-2020																- 1					1								
1P Performance Verification Test-2019																								МР	PVT F			VT 2	VT 20 MP

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
	PE 0604280A I Joint Tactical Radio	- , ,	umber/Name) dheld, Manpack and Small Form HMS)

## Schedule Details

Start		End	
Quarter	Year	Quarter	Year
2	2014	2	2014
2	2014	3	2014
4	2015	1	2016
1	2016	1	2016
2	2016	3	2016
3	2016	3	2016
1	2017	1	2017
1	2018	2	2018
4	2018	4	2018
1	2019	2	2019
4	2019	4	2019
1	2020	2	2020
4	2020	4	2020
	Quarter  2 2 4 1 2 3 1 1 4 1 4 1	Quarter         Year           2         2014           2         2014           4         2015           1         2016           2         2016           3         2016           1         2017           1         2018           4         2018           1         2019           4         2019           1         2020	Quarter         Year         Quarter           2         2014         2           2         2014         3           4         2015         1           1         2016         1           2         2016         3           3         2016         3           1         2017         1           1         2018         2           4         2018         4           1         2019         2           4         2019         4           1         2020         2