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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army	Date: March 2014
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army I BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	14.101	18.188	11.011	-	11.011	12.131	13.724	13.683	13.883	Continuing	Continuing
253: <i>Dscs-Dcs (Phase II)</i>	-	5.139	5.556	4.179	-	4.179	5.287	5.375	5.494	6.160	Continuing	Continuing
456: <i>MILSATCOM System Engineering</i>	-	8.962	12.632	2.952	-	2.952	2.959	5.441	8.189	7.723	Continuing	Continuing
EA3: <i>Transportable Tactical Cmd Comms (T2C2)</i>	-	-	-	3.880	-	3.880	3.885	2.908	-	-	-	10.673

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Military Satellite Communication (MILSATCOM) systems are joint program/project efforts to satisfy ground mobile requirements for each Service, the Joint Chiefs of Staff (JCS), the National Command Authority, the combatant commanders, the Office of the Secretary of Defense, and other governmental, non-DoD users. The worldwide MILSATCOM systems are: the Super High Frequency (SHF) Defense Satellite Communications System (DSCS); the Wideband Global SATCOM (WGS); the MILSTAR Extremely High Frequency (EHF) Low Data Rate (LDR) and Medium Data Rate (MDR); the Advanced Extremely High Frequency (AEHF); and future MILSATCOM capabilities. All of these systems are required to support legacy, interim and emerging communication space architectures and Future Force requirements. The Army is responsible for materiel development, acquisition, product improvement, testing, fielding and integrated logistics support of ground satellite terminals and SATCOM control subsystems and all associated equipment used to provide range extension of Mission Command Networks and Systems. The Army also participates in the development of MILSATCOM programs, including architectures, payloads, waveforms, antennas and terminal developments to ensure US Army equities are appropriately addressed with our sister services. This includes technology assessment efforts associated with the integration of MILSATCOM components to US Army Landwarnet. This responsibility also includes maintaining the life cycle logistics support required to achieve end-to-end connectivity and interoperability, satisfying JCS network operations in support of the President, JCS, combatant commanders, Military Departments, Department of State, and other government Departments and Agencies.

This program is designated as a DoD Space Program.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army				Date: March 2014	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development		PE 0303142A / SATCOM Ground Environment (SPACE)			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	15.756	18.197	18.428	-	18.428
Current President's Budget	14.101	18.188	11.011	-	11.011
Total Adjustments	-1.655	-0.009	-7.417	-	-7.417
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-1.655	-0.009	-7.417	-	-7.417

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)				Project (Number/Name) 253 / Dscs-Dcs (Phase II)			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
253: Dscs-Dcs (Phase II)	-	5.139	5.556	4.179	-	4.179	5.287	5.375	5.494	6.160	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
This project provides funds to develop Satellite Communication (SATCOM) ground subsystem equipment and software in support of Joint Chiefs of Staff (JCS) validated Mission Command Network and Systems requirements for the worldwide Defense Enterprise Wideband SATCOM System (DEWSS). DEWSS is composed of the Super High Frequency (SHF) Defense Satellite Communications System (DSCS) and Wideband Global SATCOM (WGS) programs, which are required to support legacy, interim and emerging communication space architectures and future Force requirements. Expansion of the WGS constellation and upgrades to both DSCS and WGS are vital to support the Army's emerging power projection and rapid deployment role. DSCS and WGS provide multiple channels of tactical end-to-end connectivity and interoperability with strategic networks and national decision-makers, satisfying JCS network operations in support of the President, JCS, combatant commanders, military departments, Department of State and other government departments and agencies.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Netcentric System Engineering and Analysis Articles: Description: Funding is provided for the following effort: FY 2013 Accomplishments: Conducted Netcentric System Engineering and Analysis FY 2014 Plans: Fund analysis for Netcentric System Engineering FY 2015 Plans: Fund analysis for Netcentric System Engineering									5.139	2.014	1.518	
									-	-	-	
Title: Jam Resistant Secure Communications (JRSC) Articles: Description: Funding is provided for the following effort: FY 2014 Plans:									-	1.970	-	
									-	-	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army								Date: March 2014					
Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)				Project (Number/Name) 253 / Dscs-Dcs (Phase II)					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2013		FY 2014		FY 2015	
Fund Jam Resistant Secure Communications (JRSC) risk mitigation.													
Title: Future analysis of Wideband SATCOM Operational Management System (WSOMS) database consolidation effort.								-		1.572		1.123	
Articles:								-		-		-	
Description: Funding is provided for the following effort:													
FY 2014 Plans: WSOMS database consolidation effort to evaluate existing database schemas (structure) for each independent Wideband Control subsystem. The result of the analysis will be to define a structure of a consolidated database along with a transition plan. The desired impact will be to reduce total cost of ownership for multiple subsystems in terms of recurring annual licensing costs and shorten logistics trail with associated database storage equipment.													
FY 2015 Plans: WSOMS database consolidation effort to evaluate existing database schemas (structure) for each independent Wideband Control subsystem. The result of the analysis will be to define a structure of a consolidated database along with a transition plan. The desired impact will be to reduce total cost of ownership for multiple subsystems in terms of recurring annual licensing costs and shorten logistics trail with associated database storage equipment.													
Title: Protected SATCOM Modem								-		-		1.538	
Description: Funding is provided for the following effort:													
FY 2015 Plans: Fund modem pilot program to address Anti-Jam (AJ) and Anti-Scintillation (AS) for the WGS constellation.													
Accomplishments/Planned Programs Subtotals								5.139		5.556		4.179	
C. Other Program Funding Summary (\$ in Millions)													
Line Item		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost	
• 24: Defense Enterprise Wideband SATCOM Systems (DEWSS) (BB8500)		151.435	57.725	118.085	-	118.085	129.187	137.606	110.383	158.005	Continuing	Continuing	
Remarks													

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)	Project (Number/Name) 253 / Dscs-Dcs (Phase II)
D. Acquisition Strategy FY15 funding finances Project Manager, Defense Communications and Army Transmission Systems (PM DCATS) netcentric systems engineering, modem risk mitigation, and DoD Information Assurance Certification Accreditation Process (DIACAP) support. Funding provides for SATCOM terminal upgrades, enhancement of baseband throughput capabilities, technology insertion and upgrades which enhance decision support capabilities, allowing for full utilization of Wideband Global SATCOM (WGS) capabilities. Both the Wideband SATCOM Operational Management System (WSOMS) and the Enterprise Wideband SATCOM Terminal System (EWSTS) Capability Production Documents (CPDs) contain Netcentric-Ready Key Performance Parameters (NR-KPPs) as required by CJCSI 6212.01C. Netcentric efforts are required to facilitate the migration from the current trunk-based communications systems to Internet Protocol (IP) based systems and to engineer, test and integrate IP based capabilities into EWSTS and WSOMS systems. Studies, risk mitigation, system integration and advanced demonstrations for netcentric baseband and policy based control will accommodate technology insertion, data sharing, remote operations, architecture efforts and use of commercial technology, thus ensuring the life of the Defense Enterprise Wideband System (DEWSS) terminal family beyond 2025 and reducing lifecycle costs and enterprise requirements on the WGS and Defense Satellite Communication System (DSCS) satellites in the future.		
E. Performance Metrics N/A		

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 7		R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)			Project (Number/Name) 253 / Dscs-Dcs (Phase II)

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Netcentric System Engineering																												
Conduct System Engineering Studies/Analysis																												
Advanced Demonstrations for Baseband and Policy Based Control																												
Jam Resistant Secure Communications (JRSC)																												
Conduct Analysis of WSOMS Database Consolidation																												
WSOMS Net Migration																												
Protected SATCOM Modems																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)	Project (Number/Name) 253 / Dscs-Dcs (Phase II)	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Netcentric System Engineering	1	2006	4	2019
Conduct System Engineering Studies/Analysis	1	2006	4	2019
Advanced Demonstrations for Baseband and Policy Based Control	1	2010	4	2019
Jam Resistant Secure Communications (JRSC)	1	2014	4	2014
Conduct Analysis of WSOMS Database Consolidation	1	2014	4	2015
WSOMS Net Migration	1	2016	4	2016
Protected SATCOM Modems	1	2015	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)				Project (Number/Name) 456 / MILSATCOM System Engineering			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
456: MILSATCOM System Engineering	-	8.962	12.632	2.952	-	2.952	2.959	5.441	8.189	7.723	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Military Satellite Communications (MILSATCOM) System Engineering (SE) provides centralized funding for US Army participation in the joint development of MILSATCOM programs. This includes engineering, technical and cost related analyses supporting architecture, payloads, network and terminal requirement and design decisions across all MILSATCOM programs. Develop Protected Communications on the Move (PCOTM) terminals by participating in the FY14 Department of Defense Analysis of Alternatives/USAF Broad Agency Announcement (BAA) and applying the study results and leverage/transition low profile Ka/Q band antenna technology to satisfy the Army's PCOTM requirement. Provides technology maturation and risk reduction for capability insertion into Project Manager Warfighter Information Network – Tactical (PM WIN-T) program of record and insures interoperability with Joint satellite constellations. Develop a low size, weight and power (SWaP) Ku/Ka band SATCOM antennas for Army's Wideband Global SATCOM (WGS) on the move requirement and reduce programmatic technical risk for WIN-T Program of Record (PoR) integration. Leverage tech base development efforts of multiband, low cost, low profile antennas for a lower cost capability for current and future heavy combat vehicles (M-1, Bradley).												
FY15 funds support the continued systems engineering required to mature technology options that demonstrate potential based on the results of the AoA and BAA studies. These efforts have a direct impact on the ability of the WIN-T Military Wideband SATCOM, Commerical SATCOM, and Protected SATCOM on the move for WIN-T with minimal development and programmatic risk.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Protected Communications System Engineering Articles: Description: Protected Communications System Engineering FY 2013 Accomplishments: Protected Advanced EHF (AEHF) Communications System Engineering FY 2014 Plans: Protected Advanced EHF (AEHF) Communications System Engineering FY 2015 Plans:									1.811	2.075	1.727	
									-	-	-	

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)	Project (Number/Name) 456 / MILSATCOM System Engineering		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Protected Communications System Engineering				
Title: Wideband Global SATCOM (WGS) Communications System Engineering Articles: Description: Wideband Global SATCOM (WGS) Communications System Engineering FY 2013 Accomplishments: Wideband Global SATCOM (WGS) Communications System Engineering and Intelligence, Surveillance, Reconnaissance (ISR) Migration FY 2014 Plans: Wideband Global SATCOM (WGS) Communications System Engineering and Intelligence, Surveillance, Reconnaissance (ISR) Migration FY 2015 Plans: Wideband Global SATCOM (WGS) Communications System Engineering to improve Ku/Ka antenna SWAP		1.901 -	1.725 -	1.225 -
Title: Experimentation, development, testing and certification of critical SATCOM and Satellite-On-The-Move (SOTM) communication and network technologies. Articles: Description: Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies. FY 2013 Accomplishments: Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies. FY 2014 Plans: Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies.		1.338 -	2.553 -	- -
Title: Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) Satellite Communications On the Move (SOTM) Regulatory Proposals/Analyses/Modifications Articles: Description: Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) SOTM Regulatory Proposals/Analyses/Modifications FY 2013 Accomplishments:		0.605 -	0.600 -	- -

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)	Project (Number/Name) 456 / MILSATCOM System Engineering	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) SOTM Regulatory Proposals/ Analyses/Modifications			
FY 2014 Plans: Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) SOTM Regulatory Proposals/ Analyses/Modifications			
Title: Protected Terminal COTM and Wide Area Network (WAN) Prototyping		0.425	1.475
Articles:		-	-
Description: Protected Wide Area Network (WAN) and Terminal Prototyping			
FY 2013 Accomplishments: Protected Terminal COTM and Wide Area Network (WAN) Prototyping			
FY 2014 Plans: Protected Terminal COTM and Wide Area Network (WAN) Prototyping			
Title: Transportable Tactical Command Communications (T2C2)		2.882	4.204
Articles:		-	-
Description: T2C2 Development: Achieve Materiel Development Decision (MDD), Conduct Analysis of Alternatives (AoA), Preparation for Milestone C, procure Low Rate Initial Production (LRIP), conduct Initial Operational Testing and Evaluation (IOT&E), Support Full Rate Production Decision			
FY 2013 Accomplishments: T2C2 Development: Achieve Material Development Decision (MDD), Conduct Analysis of Alternatives (AoA), Preparation for Milestone C, Support Full Rate Production Decision			
FY 2014 Plans: T2C2: Preparation for Milestone C, procure Low Rate Initial Production (LRIP), conduct Initial Operational Testing and Evaluation (IOT&E), Support Full Rate Production Decision			
Accomplishments/Planned Programs Subtotals		8.962	12.632
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)	Project (Number/Name) 456 / MILSATCOM System Engineering
D. Acquisition Strategy This project funds advanced systems engineering, research, development, test and evaluation of new and emerging technologies to optimize terminal performance and communications control. Once the technologies are mature and deemed feasible, funding and management responsibility for implementation of the technology will transition to WIN-T and related PoRs.		
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)						Project (Number/Name) 456 / MILSATCOM System Engineering			
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Program Oversight	MIPR	PM WIN T : PEO C3T	1.914	0.500		0.500		0.100		-		0.100	Continuing	Continuing	Continuing
Advanced Architecture/ Advanced Wideband System Architecture	MIPR	MIT Lincoln Labs : Lexington , MA	11.474	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			13.388	0.500		0.500		0.100		-		0.100	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Protected Communications and WGS Communications SE	TBD	PM WIN-T : Various	25.720	1.100		1.050		0.300		-		0.300	Continuing	Continuing	Continuing
Experimentation, development, testing & certification of SATCOM & SOTM communication & networking.	MIPR	PM WIN-T : Various	22.051	1.150		1.438		-		-		-	Continuing	Continuing	Continuing
FCC/ITU SOTM Regulatory Proposals/ Analyses/Modifications	MIPR	John Hopkins Universtiy Applied Physics Lab : Laurel, MD	1.450	0.605		0.600		-		-		-	Continuing	Continuing	Continuing
Protected COTM Tactical Reference Terminal Prototyping and Protected Wide Area Network Prototyping	TBD	PEO C3T PM WIN-T : Various	19.450	0.300		1.000		-		-		-	Continuing	Continuing	Continuing
Purchase of prototype hardware and engineering studies	C/CPFF	PEO C3T : PM WIN-T	0.000	1.164		-		-		-		-	Continuing	Continuing	Continuing
T2C2 Development Analysis of AoA activity associated with the	TBD	PEO C3T : PM WIN-T	0.000	0.400		-		-		-		-	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)						Project (Number/Name) 456 / MILSATCOM System Engineering			
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
evaluation and award of T2C2 contract															
Includes conducting market research on T2C2 candidate technologies	TBD	PEO C3T : PM WIN-T	0.000	0.100		0.250		-		-		-	-	0.350	0.100
T2C2 preparation of Milestone C Documentation	TBD	PEO C3T : PM WIN T	0.000	-		1.694		-		-		-	-	1.694	-
Subtotal			68.671	4.819		6.032		0.300		-		0.300	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Engineering (In House)	MIPR	PM WIN T : Core, Matrix	24.038	1.250		1.900		1.300		-		1.300	Continuing	Continuing	Continuing
Engineering Contractors Support	C/CPFF	PM WIN-T : Contractor TBD	37.635	0.700		0.600		0.500		-		0.500	Continuing	Continuing	Continuing
System Architecture & Analysis	Various	CERDEC : PM WIN T	17.193	0.143		0.165		-		-		-	Continuing	Continuing	Continuing
T2C2 preparation for Milestone C; Request for Proposal and solcitation preparation	TBD	PEO C3T PM WIN T : Various	0.000	0.200		0.300		-		-		-	Continuing	Continuing	Continuing
Subtotal			78.866	2.293		2.965		1.800		-		1.800	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)						Project (Number/Name) 456 / MILSATCOM System Engineering			
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
Terminal Testing and Evaluation System Engineering	FFRDC	PEO C3T WIN T : TBD	1.704	0.300		0.300		0.200		-		0.200	Continuing	Continuing	Continuing
Test Support	MIPR	MATRIX : PM WIN T	21.762	0.250		0.375		0.200		-		0.200	Continuing	Continuing	Continuing
Testing, Certification	MIPR	Support Technical Testing : PM WIN T	5.750	0.400		0.500		0.352		-		0.352	Continuing	Continuing	Continuing
Test support to study the feasibility of moving small terminal activity from COMSATCOMO to MILSATCOM	C/CPFF	PEO C3T : PM WIN-T	0.000	0.400		-		-		-		-	Continuing	Continuing	Continuing
T2C2 complete Initial Operational Test and Evaluation	TBD	PEO C3T : PM WIN-T	0.000	-		1.960		-		-		-	-	1.960	-
Subtotal			29.216	1.350		3.135		0.752		-		0.752	-	-	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			190.141	8.962		12.632		2.952		-		2.952	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 7		R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)			Project (Number/Name) 456 / MILSATCOM System Engineering

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
WGS/Wideband SE																												
Development, Testing and Certification of SOTM Technology																												
Wideband Technology Development/ Prototyping																												
Prototype Advanced COTM Terminal PACT (AEHF)																												
MILSATCOM SE Protected COTM Terminal Engineering																												
FCC/ITU SOTM Regulatory Proposals/ Analyses/Modifications																												
T2C2 Product development and M/S C preparation																												
T2C2 IOT&E & MS C																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)	Project (Number/Name) 456 / MILSATCOM System Engineering	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
WGS/Wideband SE	1	2004	4	2019
Development, Testing and Certification of SOTM Technology	1	2012	4	2014
Wideband Technology Development/Prototyping	1	2004	4	2014
Prototype Advanced COTM Terminal PACT (AEHF)	1	2010	4	2014
MILSATCOM SE Protected COTM Terminal Engineering	1	2015	4	2019
FCC/ITU SOTM Regulatory Proposals/Analyses/Modifications	1	2009	4	2014
T2C2 Product development and M/S C preparation	3	2013	4	2014
T2C2 IOT&E & MS C	4	2014	4	2014

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)				Project (Number/Name) EA3 / Transportable Tactical Cmd Comms (T2C2)			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
EA3: Transportable Tactical Cmd Comms (T2C2)	-	-	-	3.880	-	3.880	3.885	2.908	-	-	-	10.673
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
Funds in this program element are a realignment of funds from the MILSATCOM System Engineering line (PE 0303142A, PROJECT 456) for more efficient, effective program management. The T2C2 efforts were previously funded under PE 0303142A, PROJECT 456 in FY13 & FY14. This project element is not a new start.												
A. Mission Description and Budget Item Justification												
Transportable Tactical Command Communications (T2C2) extends the WIN-T Network to small company and team sized early entry units that don't have organic WIN-T. T2C2 provides robust voice and data communications capabilities in the early phases of Joint operations. T2C2 will also integrate these users into the higher capacity Warfighter Information Network Tactical (WIN-T) network and extend that network to the tactical edge. Funding will be used for testing the T2C2 systems (Lite & Heavy) in preparation of Full Material Release (FMR) and Full-Rate Production (FRP) scheduled for FY2017, along with T2C2, with testing in FY2013-2016, specifically Interoperability certification, Environmental testing and network testing FY2015/2016, and Initial Operational Test & Evaluation (IOT&E) and Joint Integration Test Command (JITC) certification in FY2016.												
T2C2 Lite (formerly Variant 1) enables small team reporting and situational awareness for early entry and initial phases of Joint operations.												
T2C2 Heavy (formerly Variant 2) supports the small command post in phases three through five of Joint operations.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: T2C2 Testing									-	-	3.869	
Description: Testing requirements to achieve Full Rate Production (FRP), including Electromagnetic testing, Environmental testing, Army Interoperability Certification (AIC) testing, a Network test and Initial Operational Test & Evaluation (IOT&E).												
FY 2015 Plans:												
Testing requirements to achieve FRP, including Electromagnetic testing, Enviornmental testing, AIC testing, a Network test and IOT&E.												
Title: T2C2 Transportation of Equipment									-	-	0.011	
Description: Transportation of test assets to the testing location.												
FY 2015 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Army								Date: March 2014			
Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)				Project (Number/Name) EA3 / Transportable Tactical Cmd Comms (T2C2)			
B. Accomplishments/Planned Programs (\$ in Millions)								FY 2013	FY 2014	FY 2015	
Transportation of test assets to the testing location.											
Accomplishments/Planned Programs Subtotals								-	-	3.880	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• Transportable Tactical Command Comm: <i>Transportable Tactical Command Communications (T2C2) (B85800)</i>	1.819	0.598	13.999	-	13.999	40.372	46.754	44.047	63.521	-	211.110
Remarks											
D. Acquisition Strategy											
Funding will be used for testing the T2C2 systems (Lite & Heavy) in preparation of Full Material Release (FMR) and Full-Rate Production (FRP) anticipated 2QTR FY2017.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army												Date: March 2014			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)				Project (Number/Name) EA3 / Transportable Tactical Cmd Comms (T2C2)					

Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
T2C2 Testing	TBD	TBD : TBD	0.000	-		-		3.869		-		3.869	-	3.869	-
T2C2 Transportation of Equipment	TBD	TBD : TBD	0.000	-		-		0.011		-		0.011	-	0.011	-
Subtotal			0.000	-		-		3.880		-		3.880	-	3.880	-

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-		-		3.880		-		3.880	-	3.880	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 7		R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)			Project (Number/Name) EA3 / Transportable Tactical Cmd Comms (T2C2)

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
T2C2 Milestone C Preparation																												
T2C2 Milestone C																												
Initial Operational Capability																												
T2C2 Equipment Testing																												
T2C2 Full Material Release																												
T2C2 Full Rate Production																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0303142A / SATCOM Ground Environment (SPACE)	Project (Number/Name) EA3 / Transportable Tactical Cmd Comms (T2C2)	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
T2C2 Milestone C Preparation	1	2014	3	2015
T2C2 Milestone C	3	2015	3	2015
Initial Operational Capability	4	2016	4	2016
T2C2 Equipment Testing	4	2015	4	2016
T2C2 Full Material Release	2	2017	2	2017
T2C2 Full Rate Production	2	2017	2	2017