Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army										DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0303142A: *SATCOM Ground Environment (SPACE)*							
COST ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**Cost To Complete**	**Total Cost**
Total Program Element	32.525	12.085	15.756	-	15.756	16.616	14.132	9.981	10.146	Continuing	Continuing
253: *DSCS-DCS (PHASE II)*	11.716	5.757	5.730	-	5.730	5.586	5.540	5.364	5.451	Continuing	Continuing
456: *MILSATCOM SYSTEM ENGINEERING*	20.809	6.328	10.026	-	10.026	11.030	8.592	4.617	4.695	Continuing	Continuing

Note

Change Summary Explanation: Funding - FY 2013 : Funding increased to support Transportable Tactical Command Communications (T2C2).

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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army					DATE: February 2012
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B. Program Change Summary ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**
Previous President's Budget	33.694	12.104	12.372	-	12.372
Current President's Budget	32.525	12.085	15.756	-	15.756
Total Adjustments	-1.169	-0.019	3.384	-	3.384
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.222	-			
• SBIR/STTR Transfer	-0.947	-			
• Adjustments to Budget Years	-	-0.019	3.384	-	3.384

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: February 2012
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COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
253: *DSCS-DCS (PHASE II)*	11.716	5.757	5.730	-	5.730	5.586	5.540	5.364	5.451	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project provides funds to develop 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 2011	FY 2012	FY 2013
Title: Netcentic Systems Engineering and Analysis	4.143	3.157	3.155
Articles:	0	0	
Description: Funding is provided for the following effort			
FY 2011 Accomplishments: Continues Netcentric Systems Engineering and Analysis			
FY 2012 Plans: Continues Netcentric Systems Engineering and Analysis			
FY 2013 Plans: Future Netcentric Systems Engineering and Analysis			
Title: Initiate integration and test efforts on the Remote Monitor Control Equipment (RMCE)	5.000	-	-
Articles:	0		
Description: Funding is provided for the following effort			
FY 2011 Accomplishments: Continuing integration and test efforts on the Remote Monitor Control Equipment (RMCE)			
Title: Joint SATCOM Engineering Center (JSEC) Lab, PM Administration and Systems Engineering Technical Assistance (SETA) efforts	2.573	2.600	2.575
	0	0	

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Articles:			
Description: Funding is provided for the following effort			
FY 2011 Accomplishments: Continuing Joint SATCOM Engineering Center (JSEC) Lab, PM Admin and Systems Engineering Technical Assistance (SETA) efforts			
FY 2012 Plans: Future Joint SATCOM Engineering Center (JSEC) Lab, PM Admin and Systems Engineering Technical Assistance (SETA) efforts			
FY 2013 Plans: Future Joint SATCOM Engineering Center (JSEC) Lab, PM Admin and Systems Engineering Technical Assistance (SETA) efforts			
Accomplishments/Planned Programs Subtotals	11.716	5.757	5.730

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• 24: *Defense Enterprise Wideband Satcom Systems (BB8500)*	115.094	123.859	151.636		151.636		117.430	132.994	145.308	Continuing	Continuing

D. Acquisition Strategy

FY12 funding finances PM DCATS netcentric systems engineering, modem risk mitigation, Joint SATCOM Engineering Center (JSEC) Lab efforts 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

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
456: *MILSATCOM SYSTEM ENGINEERING*	20.809	6.328	10.026	-	10.026	11.030	8.592	4.617	4.695	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

MILSATCOM System Engineering provides centralized funding for US Army participation in the joint development of MILSATCOM programs. This includes engineering, technical and Cost As An Independent Variable (CAIV) related analyses supporting architecture, payloads, network and terminal requirement and design decisions across all MILSATCOM programs

MILSATCOM System Engineering also supports experimentation and/or development of new and emerging SATCOM related technologies and standards. This includes prototyping efforts to address technology gaps identified by US Army Program of Records (POR) in the US Army Technology Transition Matrix.

Transportable Tactical Command Communications (T2C2) Development: T2C2 is a family of transportable satellite communications terminals intended to provide small company-sized early entry units robust voice and data communications capabilities in the early phases of joint operations using commercial and military satellite communications. Funding supports preparation for a Material Development Decision and initiation of an Analysis of Alternatives in FY 2013.

FY 2013 funds suppport efforts in the area of both Wideband/Commerical and Protected Communications related efforts.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: Protected Advanced EHF (AEHF) Communications System Engineering	1.600	2.040	2.075
Articles:	0	0	
Description: Protected Advanced EHF (AEHF) Communications System Engineering			
FY 2011 Accomplishments: Protected Advanced EHF (AEHF) Communications System Engineering			
FY 2012 Plans: Protected Advanced EHF (AEHF) Communications System Engineering			
FY 2013 Plans: Protected Advanced EHF (AEHF) Communications System Engineering			
Title: Wideband Global SATCOM (WGS) Communications System Engineering and Intelligence, Surveillance, Reconnanisance (ISR) Migration	1.300	1.650	1.901
	0	0	

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Articles: ***Description:*** Wideband Global SATCOM (WGS) Communications System Engineering ***FY 2011 Accomplishments:*** Wideband Global SATCOM (WGS) Communications System Engineering and Intelligence, Surveillance, Reconnanisance (ISR) Migration ***FY 2012 Plans:*** Wideband Global SATCOM (WGS) Communications System Engineering and Intelligence, Surveillance, Reconnanisance (ISR) Migration ***FY 2013 Plans:*** Wideband Global SATCOM (WGS) Communications System Engineering and Intelligence, Surveillance, Reconnanisance (ISR) Migration			
Title: Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies.	3.950	1.438	1.538
Articles:	0	0	
Description: Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies. ***FY 2011 Accomplishments:*** Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies. ***FY 2012 Plans:*** Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies. ***FY 2013 Plans:*** Experimentation, development, testing and certification of critical SATCOM and SOTM communication and network technologies.			
Title: Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) Satellite Communications On the Move (SOTM) Regulatory Proposals/Analyses/Modifications	1.000	0.700	0.605
Articles:	0	0	
Description: Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) SOTM Regulatory Proposals/Analyses/Modifications ***FY 2011 Accomplishments:***			

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) SOTM Regulatory Proposals/ Analyses/Modifications ***FY 2012 Plans:*** Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) SOTM Regulatory Proposals/ Analyses/Modifications ***FY 2013 Plans:*** Federal Communications Commission/ International Telecommunciations Union (FCC/ITU) SOTM Regulatory Proposals/ Analyses/Modifications			
Title: Protected Terminal COTM and Wide Area Network (WAN) Prototyping and NIE participation ***Articles:*** ***Description:*** Protected Wide Area Network (WAN) and Terminal Prototyping ***FY 2011 Accomplishments:*** Protected Wide Area Network (WAN) Prototyping ***FY 2012 Plans:*** Protected Terminal COTM and Wide Area Network (WAN) Prototyping ***FY 2013 Plans:*** Protected Terminal COTM and Wide Area Network (WAN) Prototyping	2.092 0	0.500 0	0.425
Title: Transportable Tactical Command Communications (T2C2) ***Description:*** T2C2 Development: Achieve Material 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 Plans:*** T2C2 Development: Achieve MDD, Conduct AoA	-	-	3.482
Title: Intelligence, Surveillance, Reconnanisance (ISR) POR Migration to OPM WIN T SATCOM Solutions. Includes Reginal Hub Node (RHN) mods, Joint Management and Operations Subsystem (JMOS) mods, Terminal Cert ***Articles:*** ***Description:*** Intelligence, Surveillance, Reconnanisance (ISR) POR Migration to OPM WIN T SATCOM Solutions. Includes Reginal Hub Node (RHN) mods, Terminal Certifications (WGS)	0.250 0	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
FY 2011 Accomplishments: Intelligence, Surveillance, Reconnanisance (ISR) POR Migration to OPM WIN T SATCOM Solutions. Includes Reginal Hub Node (RHN) mods, Joint Management and Operations Subsystem (JMOS) mods, Terminal Certifications (WGS)			
Title: Protected Communications On the Move (COTM) Technical Reference Terminal Prototyping ***Articles:*** ***Description:*** Protected COTM Technical Reference Terminal Prototyping ***FY 2011 Accomplishments:*** Protected COTM Technical Reference Terminal Prototyping	10.617 0	-	-
Accomplishments/Planned Programs Subtotals	20.809	6.328	10.026

C. Other Program Funding Summary ($ in Millions)

N/A

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 Army PORs.

The funds provided for T2C2 will be used to achieve Material Development Decision (MDD) and conduct an Analysis of Alternatives (AoA). The AoA will evaluate at least two competitive non-development commercial capabilities that can be rapidly integrated into existing communications architecture. If the AoA shows a low cost commercial system can meet Army requirements, T2C2 would proceed directly to Milestone C.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army			DATE: February 2012
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Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Oversight	MIPR	PM WIN T:PEO C3T	1.514	0.400		0.500		-		0.500	Continuing	Continuing	Continuing
Advanced Architecture/ Advanced Wideband System Architecture	MIPR	MIT Lincoln Labs:Lexington , MA	11.474	-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	12.988	0.400		0.500		-		0.500			

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Protected Advanced EHF and WGS Communications Syststem Engineering	C/CR	PEO C3T PM WIN-T:Various	24.820	0.900		1.100		-		1.100	Continuing	Continuing	Continuing
Experimentation, development , testing & certification of SATCOM & SOTM communciation & networking.	TBD	PM WIN-T:Various	21.251	0.900		1.150		-		1.150	Continuing	Continuing	Continuing
FCC/ITU SOTM Regulatory Proposals/Analyses/ Modifications	MIPR	John Hopkins Universtiy Applied Physics Lab:Laurel, MD	0.800	0.650		0.605		-		0.605	Continuing	Continuing	Continuing
Protected COTM Tactical Reference Terminal Prototyping and Protected Wide Area Network Prototyping	MIPR	PEO C3T PM WIN-T:Various	19.200	0.250		0.300		-		0.300	Continuing	Continuing	Continuing
T2C2 Development Analysis of AoA activity associated with the evaluation and award of T2C2 contract	TBD	PEO C3T:PM WIN-T	-	-		0.750		-		0.750	Continuing	Continuing	Continuing
Includes conducting market surveys on T2C2 candidate technologies	C/CR	PEO C3T:PM WIN-T	-	-		0.100		-		0.100	0.000	0.100	0.100

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army			DATE: February 2012
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Purchase of prototype hardware and engineering studies	C/CR	PEO C3T:PM WIN-T	-	-		1.200		-		1.200	Continuing	Continuing	Continuing
		Subtotal	66.071	2.700		5.205		-		5.205			

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering (In House)	MIPR	PEO C3T PM WIN T:Core, Matrix	22.990	1.048		1.250		-		1.250	Continuing	Continuing	Continuing
Engineering Contractors Support	C/CPFF	PEO C3T PM WIN-T:Linquest, Janus, Booze Allen Hamilton	37.035	0.600		0.700		-		0.700	Continuing	Continuing	Continuing
System Architecture & Analysis	Various	MIT Lincoln Labs, Lexington, MA; MITRE, CERDEC:PM WIN T	16.663	0.530		0.143		-		0.143	Continuing	Continuing	Continuing
Preparation for Milestone C Request for Proposal and solcitation preparation	MIPR	PEO C3T PM WIN T:Various	-	-		0.400		-		0.400	Continuing	Continuing	Continuing
		Subtotal	76.688	2.178		2.493		-		2.493			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Terminal Testing and Evaluation System Engineering	FFRDC	PEO C3T WIN T:MITRE	1.554	0.150		0.500		-		0.500	Continuing	Continuing	Continuing
Test Support	MIPR	MATRIX:PM WIN T	21.382	0.450		0.396		-		0.396	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army		DATE: February 2012
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Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Testing, Certification	MIPR	CERDEC Support Technical Testing:PM WIN T	5.300	0.450		0.400		-		0.400	Continuing	Continuing	Continuing
Test support to study the feasibility of moving small terminal activity from COMSATCOMO to MILSATCOM	C/CR	PEO C3T:PM WIN-T	-	-		0.532		-		0.532	Continuing	Continuing	Continuing
		Subtotal	28.236	1.050		1.828		-		1.828			

	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	183.983	6.328		10.026		-		10.026			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army		DATE: February 2012
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	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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 Product delvelopment and M/S C preparation									[redacted]																			

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army		DATE: February 2012
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Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
T2C2 Product delvelopment and M/S C preparation	1	2013	2	2015