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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605030A I Joint Tactical Network Center (JTNC)							
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	-	-	68.112	8.440	-	8.440	21.460	26.474	24.668	24.723	Continuing	Continuing
EA8: Joint Tactical Network Center (JNTC)	-	-	68.112	8.440	-	8.440	21.460	26.474	24.668	24.723	Continuing	Continuing

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

Note

In accordance with the ADM and Charter dated 20 January 2014, the JTNC Program will remain under a joint budget strategy in the three MILDEPs in new PEs (Army PE 0605030A, Navy PE 0605030N, and Air Force PE 0605030F). As part of the joint program budget strategy, each MILDEP budgets for approximately one-third of the total program RDT&E funds. Prior to the year of execution, the JTNC funding is consolidated in the Army PE (0605030A). JTN funding will be executed out of Army PE (0605031A).

A. Mission Description and Budget Item Justification

Joint Tactical Networking Center (JTNC) will ensure interoperable, secure and affordable waveform and wireless communications by recommending standards, conducting compliance and certification assessments in accordance with DoD policies, and maintaining a DoD Waveform Information Repository (IR). This mission is executed in conjunction with other government agencies to include the National Security Agency (NSA), the Joint Interoperability Test Command (JITC), and the National Telecommunication and Information Administration (NTIA), as well as the Services. Particular attention is paid to ensuring that interagency work is collaborative and eliminates duplicative capability.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	68.148	19.909	-	19.909
Current President's Budget	-	68.112	8.440	-	8.440
Total Adjustments	-	-0.036	-11.469	-	-11.469
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-0.036	-11.469	-	-11.469

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605030A / Joint Tactical Network Center (JTNC)				Project (Number/Name) EA8 / Joint Tactical Network Center (JNTC)			
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
EA8: Joint Tactical Network Center (JNTC)	-	-	68.112	8.440	-	8.440	21.460	26.474	24.668	24.723	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
Note												
In FY 2013, the Joint Tactical Networking Center (JTNC) was funded in the Navy Program Element (PE) 0604280N Project No. 3076 formally known as JTRS Network Enterprise Domain (JNED). In FY 2014 funding that resides in Army PE 0605030A represents the total JTNC and Joint Tactical Networks (JTN) Budget. FY 2015 PE 0605030A represents only the JTNC funding. FY 2016-19 0605030A represents Army's portion of both the Joint Tactical Networks and JTNC funding. In accordance with the Joint Tactical Networking Center Acquisition Decision Memorandum and Charter dated 20 January 2014, the JTNC Program will remain under a joint budget strategy in the three MILDEPs in new PEs (Army PE 0605030A, Navy PE 0605030N, and Air Force PE 0605030F). As part of the joint program budget strategy, each MILDEP budgets for approximately one-third of the total program RDT&E funds. Prior to the year of execution, the JTNC funding is consolidated in the Army PE (0605030A). JTN funding will be executed out of Army PE (0605031A). JTN and JTNC funding allocation will be separated based on the Tri-Service Resource Plan, which is projected to be completed in the 3rd quarter of FY14. The Joint Tactical Networking Center (JTNC) is responsible for the management and maintenance of a jointly funded common Waveform Information Repository (IR), sustainment and evolution of the Software Communications Architecture, Application Program Interfaces, and wireless communications standards, and conducting technical assessments of waveforms, software, and associated artifacts and recommending designation of such products as compliant or certified with regard to Department of Defense (DoD) applicable policies.												
A. Mission Description and Budget Item Justification												
Joint Tactical Networking Center (JTNC) will ensure interoperable, secure and affordable waveform and wireless communications by recommending standards, conducting compliance and certification assessments in accordance with DoD policies, and maintaining a Department of Defense (DoD) Waveform Information Repository (IR). This mission is executed in conjunction with other government agencies to include the National Security Agency (NSA), the Joint Interoperability Test Command (JITC), and the National Telecommunication and Information Administration (NTIA), as well as the Services. Particular attention is paid to ensuring that interagency work is collaborative and eliminates duplicative capability.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Wideband Networking Waveform (WNW)									-	3.150	-	
									Articles:			-
Description: Wideband Networking Waveform (WNW) is a high data rate Mobile Adhoc NETworking (MANET) waveform application that provides the mid tier tactical Internet backbone and connects tactical forces across the battle sphere. WNW will												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
provide high throughput, dynamically adaptable connectivity for the exchange of Internet Protocol (IP) based voice, data, and video traffic. WNW will feature two signals-in-space (SiS), which are the Orthogonal Frequency Division Multiplexing (OFDM) and Anti-Jam (AJ). WNW will support network nodes on mobile, airborne, and maritime platforms. WNW includes networking services, security, High Assurance IP Equipment (HAPE) capabilities, red black switching, and internal routing of other WNW signals. WNW is currently ported on 8 platforms with 8 different vendors. FY 2014 Plans: Maintain test facility to conduct WNW test and evaluation. Develop test plans and procedures for full WNW Waveform Conformance for WNW 4.0.7. Continue enhancements, software modifications and software version drops (v4.0.8).				
Title: Soldier Radio Waveform (SRW) Articles: Description: Soldier Radio Waveform (SRW) will operate on tactical radio sets to provide a networked battlefield communications capability for power disadvantaged users engaged in land combat operations and will support voice, data, and video communications on the immediate battlefield. These forces include vehicles, rotary wing, dismounted soldiers, munitions, sensors, and unmanned air vehicles (UAV). Functional software applications will use SRW enabled JTR sets over IP capable networks and sub-networks. SRW will be interoperable with higher throughput, IP-based network waveforms, such as WNW. As applicable, these IP-based networking waveforms will enable information exchanges through the GIG to the soldier and provide entirely new capabilities for battlefield communications and information sharing. SRW is currently ported on 20 different platforms with 13 different vendors. FY 2014 Plans: Continue Information Assurance (IA) assessments, develop test plans and procedures for full SRW waveform conformance, enhancement to SRW v1.2 and software version drop (v1.2E).		- -	1.107 -	- -
Title: Mobile User Objective System (MUOS) Waveform Articles: Description: Mobile User Objective System (MUOS) Waveform will enable MUOS satellites to provide worldwide communication satellite coverage for DoD requirements. MUOS will provide functionality comparable to commercial mobile phone systems. MUOS offers secure streaming video, netted communications, and voice/data in real time to provide essential connectivity. The JTN program will modify this waveform, making it compatible and certifiable with DoD security requirements while enabling porting to tactical radio sets. MUOS is currently being ported by 7 vendors on 7 different platforms. FY 2014 Plans:		- -	0.613 -	- -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Continue software testing, upgrades, enhancements, software modifications and software version drop (v3.1.2) to meet DoD requirements.				
Title: JTRS Network Enterprise Services (JNES)/Joint Enterprise Net Manager (JENM) Articles: Description: Joint Enterprise Net Manager (JENM): Prior to FY13, JTRS Network Enterprise Services (JNES) included the development and acquisition of JTRS WNW Network Manager (JWNM), Joint Enterprise Net Manager (JENM), Soldier Radio Waveform Network Manager (SRWNM), and Enterprise Network Services (ENS). In FY13 and out, JENM provides consolidated communications planning, network configuration, network activation, position reporting, fault management, security management, and network health and status reporting needed to establish and maintain a mobile wireless network comprised of JTN network waveforms. JENM can interface with other external network managers, mission planning systems, network planning systems, key management systems, and spectrum planning systems. JENM is considered a mission essential system. JENM is also considered a critical element within the J-TNT configuration management tool kit. FY 2014 Plans: Continue Information Assurance (IA) assessments, enhancements, software modifications, upgrades with full capability to JENM v1 and JENM v2 and software version drops (v1.2.7, v1.2.8, v1.2.9, v1.2.11, v2.5.3, v2.6-2.8).		- -	20.875 -	- -
Title: Legacy Radio Waveforms/Program Management Articles: Description: Legacy Radio Waveforms/Program Management: Includes the continued development, incremental upgrades, and software efficiencies of legacy software and other related activities to support the legacy waveform integration into hardware solutions in the field. FY 2014 Plans: Continue to support waveform integration, test and evaluation to include hardware and software waveform Certification Process to meet program requirements. Continue Joint Tactical Networking Center (JTNC) and Joint Tactical Networks (JTN) program management office support. FY 2015 Plans: Continue to support waveform integration, test and evaluation to include hardware and software waveform Certification Process to meet program requirements. Continue to provide DoD Waveform IR management, configuration control, and technical assessments of DoD Waveform Information Repository products for Legacy waveforms. Continue JTNC program management office support.		- -	42.367 -	8.440 -
Accomplishments/Planned Programs Subtotals		-	68.112	8.440

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

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0604280N: 0604280N: JNED, RDTE,N	59.077	-	-	-	-	-	-	-	-	-	59.077
• 0605030N: 0605030N: JTNC, RDTE,N	-	-	-	-	-	12.407	12.527	12.913	13.242	Continuing	Continuing
• 0605030F: 0605030F: JTNC, RDTE,F	-	-	-	-	-	22.346	22.255	22.656	23.064	Continuing	Continuing
• 0303109N: 0303109N: JNED, O&M,N	42.264	-	-	-	-	-	-	-	-	-	42.264

Remarks

In FY 2013, the Joint Tactical Networking Center (JTNC) was funded in the Navy Program Element (PE) 0604280N, Project No. 3076 formally known as JTRS Network Enterprise Domain (JNED). This was a shared line with JTN. In FY 2014 funding that resides in Army PE 0605030A represents the total JTNC and Joint Tactical Networks (JTN) Budget. FY 2015 PE 0605030A represents only the JTNC funding. FY16-19 0605030A represents both the Joint Tactical Networks and JTNC funding. In accordance with the Joint Tactical Networking Center Acquisition Decision Memorandum and Charter dated 20 January 2014, the JTNC Program will remain under a joint budget strategy in the three MILDEPs in new PEs (Army PE 0605030A, Navy PE 0605030N, and Air Force PE 0605030F). As part of the joint program budget strategy, each MILDEP budgets for approximately one-third of the total program RDT&E funds. Prior to the year of execution, the JTNC funding is consolidated in the Army PE (0605030A). JTN funding will be executed out of Army PE (0605031A). JTN and JTNC funding allocation will be separated based on the Tri-Service Resource Plan, which is projected to be completed in the 3rd quarter of FY14.

D. Acquisition Strategy

Joint Tactical Networking Center core functions as defined in the JTNC Acquisition Decision Memorandum and Charter signed on 20 January 2014 include: Department of Defense (DoD) Waveform Standards and Software Communications Architecture (SCA), technical assessments of DoD Waveform Information Repository (IR) products, DoD Waveform IR Management and Configuration Control. The services derived from these core functions reinforce an acquisition environment where wireless communications products are interoperable, secure, and affordable.

The FY 2015 Budget supports continued development of waveforms/supporting software, testing support, and the National Security Agency (NSA) evaluation of software Information Assurance (IA) compliance.

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 / 5						R-1 Program Element (Number/Name) PE 0605030A / Joint Tactical Network Center (JTNC)				Project (Number/Name) EA8 / Joint Tactical Network Center (JNTC)					
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 Management Support	Various	Various: : Various	0.000	-		6.101	Mar 2014	2.159	Dec 2014	-		2.159	Continuing	Continuing	Continuing
Subtotal			0.000	-		6.101		2.159		-		2.159	-	-	-
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
Network Enterprise Services Development	C/CPIF	Boeing : : Huntington Beach, CA	0.000	-		15.371	Apr 2014	-		-		-	-	15.371	-
Product Development WNW	C/CPIF	General Dynamics : Scottsdale, AZ	0.000	-		2.150	Apr 2014	-		-		-	-	2.150	-
Product Development SRW	C/CPIF	Harris Corp : Rochester, NY	0.000	-		1.107	Mar 2014	-		-		-	-	1.107	-
Post Formal Qualification Testing- LINK 16	C/CPIF	BAE: : Wayne, NJ	0.000	-		3.150	Mar 2014	-		-		-	Continuing	Continuing	Continuing
Post Formal Qualification Testing- JENM	C/CPIF	Boeing : : Huntington Beach, CA	0.000	-		0.823	Mar 2014	-		-		-	Continuing	Continuing	Continuing
Post Formal Qualification Testing: JENM	C/CPFF	Exelis Inc. : Alexandria, VA	0.000	-		4.681	Apr 2014	-		-		-	-	4.681	-
Post Formal Qualification Testing- MUOS	C/CPIF	Lockheed Martin Corp : Sunnyvale, CA	0.000	-		0.613	Mar 2014	-		-		-	Continuing	Continuing	Continuing
Post Formal Qualification Testing- WNW	C/CPIF	General Dynamics: : Scottsdale, AZ	0.000	-		1.000	Mar 2014	-		-		-	Continuing	Continuing	Continuing
Post Formal Qualification Testing- SRW	C/CPIF	Harris : : Rochester, NY	0.000	-		-		-		-		-	Continuing	Continuing	Continuing
Post FQT / Software Sustainment	MIPR	SSC PAC: : San Diego, CA	0.000	-		10.142	Feb 2014	-		-		-	Continuing	Continuing	Continuing
Certification (Interim SCA Compliance Testing)	MIPR	NSA: : Ft. Meade, MD	0.000	-		0.435	Mar 2014	0.611	Oct 2014	-		0.611	Continuing	Continuing	Continuing

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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
Post FQT/ software Sustainment	MIPR	SSC LANT : Charleston, SC	0.000	-		5.379	Feb 2014	-		-		-	-	5.379	-
Post FQT/ Software Sustainment	MIPR	CERDEC : APG, MD	0.000	-		1.445	Feb 2014	-		-		-	-	1.445	-
Subtotal			0.000	-		46.296		0.611		-		0.611	-	-	-
Remarks															
In accordance with the Joint Tactical Networking Center Acquisition Decision Memorandum and Charter dated 20 January 2014, the JTNC Program will remain under a joint budget strategy in the three MILDEPs in new PEs (Army PE 0605030A, Navy PE 0605030N, and Air Force PE 0605030F). As part of the joint program budget strategy, each MILDEP budgets for approximately one-third of the total program RDT&E funds. Prior to the year of execution, the JTNC funding is consolidated in the Army PE (0605030A). JTN funding will be executed out of Army PE (0605031A). JTN and JTNC funding allocation will be separated based on the Tri-Service Resource Plan, which is projected to be completed in the 3rd quarter of FY14.															
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
JTN/JTNC Engineering/ Technical Support	Various	Various: : Various	0.000	-		15.479	Mar 2014	5.670	Dec 2014	-		5.670	Continuing	Continuing	Continuing
Engineering Support	FFRDC	MITRE Corporation : McLean, VA	0.000	-		0.236	Feb 2014	-		-		-	-	0.236	-
Subtotal			0.000	-		15.715		5.670		-		5.670	-	-	-
			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	-		68.112		8.440		-		8.440	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
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	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
Wideband Networking Waveform (WNW)																												
Soldier Radios Waveform (SRW)																												
Mobile User Objective System (MUOS) Waveform																												
JTRS Enterprise Network Manager (JENM)																												
Software Sustainment																												
Waveforms Certification and Information Repository																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605030A / <i>Joint Tactical Network Center (JTNC)</i>	Project (Number/Name) EA8 / <i>Joint Tactical Network Center (JNTC)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Wideband Networking Waveform (WNW)	1	2014	4	2014
Soldier Radios Waveform (SRW)	1	2014	4	2014
Mobile User Objective System (MUOS) Waveform	1	2014	4	2014
JTRS Enterprise Network Manager (JENM)	1	2014	4	2014
Software Sustainment	1	2014	4	2019
Waveforms Certification and Information Repository	1	2014	4	2019