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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 / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605031A / Joint Tactical Network (JTN)							
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	-	-	-	17.999	-	17.999	-	-	-	-	-	17.999
EF5: Joint Tactical Network (JTN)	-	-	-	17.999	-	17.999	-	-	-	-	-	17.999

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

Note

In accordance with the signed Joint Tactical Networking Center Acquisition Decision Memorandum and Charter dated 20 January 2014, funds from PE 0605030A were aligned to PE 0605031A prior to the year of execution.

A. Mission Description and Budget Item Justification

Joint Tactical Networks (JTN) Deliver, maintain, upgrade and enhance portable, interoperable, mobile ad hoc networking waveforms and network enterprise services to enhance tactical warfighting capabilities.

JTN applications are: (1) Interoperable – among all Services, capable of operating in a variety of hardware items, for both Program of Record and commercial Non-Developmental Item (NDI) radios; (2) Secure – meet all DoD and US Govt information assurance requirements; (3) Operationally Relevant – quickly and effectively meet evolving network mission requirements of Combatant Commanders and the Services; (4) Affordable – drive down procurement and support costs via a robust, competitive NDI market which adheres to open government standards.

In accordance with the Joint Tactical Networking Center ADM and Charter dated 20 January, 2014, the JTN is to actively manage and fund the development, update and sustaining of the Soldier Radio Waveform (SRW), the Wideband Networking Waveform (WNW), the Mobile User Objective System (MUOS), the Link-16 waveform, and the Joint Enterprise Network Manager (JENM). Due to the JTN's extensive knowledge and expertise, the JTN will also enhance, update, and sustain the following legacy waveforms on a reimbursable basis: the High Frequency (HF) waveform, the merged HAVE QUICK II (HQII) and Very High Frequency (VHF)/Ultra High Frequency (UHF) Line of Sight (VULOS) waveforms, the JTRS Bowman waveform (JBW), the SINCGARS waveform and the UHF Satellite Communications (SATCOM) waveform.

UNCLASSIFIED

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)		PE 0605031A / Joint Tactical Network (JTN)			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	-	-	-	-
Current President's Budget	-	-	17.999	-	17.999
Total Adjustments	-	-	17.999	-	17.999
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	17.999	-	17.999

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605031A / Joint Tactical Network (JTN)				Project (Number/Name) EF5 / Joint Tactical Network (JTN)			
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
EF5: Joint Tactical Network (JTN)	-	-	-	17.999	-	17.999	-	-	-	-	-	17.999
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Note

In FY 2013 and Prior Years, the Joint Tactical Networks (JTN) was funded in the Navy Program Element (PE) 0604280N, Project No. 3076 formally known as JTRS Network Enterprise Domain (JNED). Program Element (PE) 0604280N represents the total JTRS RDT&E Budget (includes Multifunctional Information Distribution System (MIDS), Airborne and Maritime/Fixed Station (AMF) JTRS, Ground Mobile Radio (GMR) JTRS, Handheld/Manpack/Small Form Fit (HMS) JTRS, and JTRS Network Enterprise Domain (JNED) and Digital Modular Radios (DMR)).

In FY 2014 funding that resides in Army PE 0605030A represents the total JTN and Joint Tactical Networking Center (JTNC) budget.

In FY 2015 PE 0605031A represents the total JTN budget.

In accordance with the Acquisition Decision Memorandum (ADM) dated 11 July 2012, the JTRS Program of Records (PORs) transitioned to Military Department (MILDEP) managed programs. The continuing Joint Tactical Networks (JTN) will remain under a joint budget strategy in three MILDEPs in 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. The Joint Tactical Networking Center (JTNC) ADM and Charter dated 20 January 2014, disseminate the JTNC from JTN. Prior to the year of execution, the JTN funding is consolidated in the Army PE (0605031A) and software sustainment funds to be transferred from RDT&E to O&M, A PE (4326750A) in fiscal year of execution as part of the JTN joint program acquisition strategy.

The Joint Tactical Networks (JTN) is a joint Department of Defense (DoD) effort to develop and sustain waveforms and network enterprise services that are used by DoD software defined radios.

A. Mission Description and Budget Item Justification

Joint Tactical Networks (JTN) Deliver, maintain, upgrade and enhance portable, interoperable, mobile ad hoc networking waveforms and network enterprise services to enhance tactical warfighting capabilities.

JTN applications are: (1) Interoperable – among all Services, capable of operating in a variety of hardware items, for both Program of Record and commercial Non-Developmental Item (NDI) radios; (2) Secure – meet all DoD and US Govt information assurance requirements; (3) Operationally Relevant – quickly and effectively meet evolving network mission requirements of Combatant Commanders and the Services; (4) Affordable – drive down procurement and support costs via a robust, competitive NDI market which adheres to open government standards.

In accordance with the Joint Tactical Networking Center Acquisition Decision Memorandum (ADM) and Charter dated 20 January, 2014, the JTN is to actively manage and fund the development, update and sustaining of the Soldier Radio Waveform (SRW), the Wideband Networking Waveform (WNW), the Mobile User Objective System (MUOS), the Link-16 waveform, and the Joint Enterprise Network Manager (JENM). Due to the JTN's extensive knowledge and expertise, the JTN will also

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / Joint Tactical Network (JTN)	Project (Number/Name) EF5 / Joint Tactical Network (JTN)		
enhance, update, and sustain the following legacy waveforms on a reimbursable basis: the High Frequency (HF) waveform, the merged HAVE QUICK II (HQII) and Very High Frequency (VHF)/Ultra High Frequency (UHF) Line of Sight (VULOS) waveforms, the JTRS Bowman waveform (JBW), the SINCGARS waveform and the UHF Satellite Communications (SATCOM) waveform.				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Title: Legacy Radio Waveforms/Program Management		-	-	10.493
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 2015 Plans: Continue to support waveform integration, test and evaluation, and program management office support.				
Title: Solder Radio Waveform (SRW)		-	-	0.961
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 Internet Protocol (IP) capable networks and sub-networks. SRW will be interoperable with higher throughput, IPbased network waveforms, such as Wideband Networks Waveform (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 19 different platforms with 11 different vendors.				
FY 2015 Plans: Continue to develop test plans and procedures for full SRW waveform conformance, enhancements to SRW v1.2.1.				
Title: Wideband Networking Waveform (WNW)		-	-	2.758
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 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 (HAIPE) capabilities, red black switching, and internal routing of other WNW signals. WNW is currently ported on 7 platforms with 7 different vendors.				
FY 2015 Plans:				

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0605031A / Joint Tactical Network (JTN)				Project (Number/Name) EF5 / Joint Tactical Network (JTN)				
B. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Continue enhancements, software modifications and version drop. Maintain test facility to conduct WNW test and evaluation. Develop test plans and procedures for full WNW Waveform Conformance for WNW v4.0.9.												
Title: Mobile User Objective System (MUOS) Waveform										-	-	0.871
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 2015 Plans: Continue software testing, upgrades, enhancements, software modifications and software version drops to meet DoD requirements.												
Title: Joint Enterprise Net Manager (JENM)										-	-	2.916
Description: JTRS Network Enterprise Services (JNES)/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 2015 Plans: Continue enhancements, software modifications, upgrades with full capabilities to JENM v1 and JENM v2 and software version drops (v2.8 and v2.9).												
Accomplishments/Planned Programs Subtotals										-	-	17.999
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	
• 0604280N: 0604280N: JNED, RDTE,N	59.077	-	-	-	-	-	-	-	-	-	59.077	

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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
• 0303109N: 0303109N: JNED, O&M,N	34.653	-	-	-	-	-	-	-	-	-	34.653
• 0605030A: 0605030A; JTNC, RDTE,A	-	68.112	-	-	-	21.460	26.474	24.668	24.723	Continuing	Continuing
• 0605030F: 0605030F; JTNC, RDTE,F	-	-	-	-	-	22.346	22.255	22.656	23.064	Continuing	Continuing
• 0605030N: 0605030N; JTNC, RDTE,N	-	-	-	-	-	12.407	12.527	12.913	13.242	Continuing	Continuing
• 4326750A: 4326750A: JTN, O&M,A	-	-	28.406	-	28.406	-	-	-	-	Continuing	Continuing
Remarks											
In FY2013, 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 2015 PE 0605031A represents the total JTN funding.											
In accordance with the Acquisition Decision Memorandum (ADM) dated 11 July 2012, the JTRS Program of Records (PORs) transitioned to Military Department (MILDEP) managed programs. The continuing Joint Tactical Networks (JTN) will remain under a joint budget strategy in three MILDEPs in 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. The Joint Tactical Networking Center (JTNC) ADM and Charter dated 20 January 2014, disseminate the JTNC from JTN. Prior to the year of execution, the JTN funding is consolidated in the Army PE (0605031A) and software sustainment funds are realigned from RDT&E to O&M,A PE (4326750A) to support the JTN joint program acquisition strategy.											
D. Acquisition Strategy											
JTN develops, enhances, and sustains all portable, interoperable, mobile ad hoc joint waveforms and network manager products/applications. The networking waveforms (Soldier Radio Waveform (SRW), Wideband Networking Waveform (WNW), and Mobile User Objective System (MUOS)) and legacy (Link-16) waveforms and network enterprise services products (JTRS Enterprise Network Manager (JENM), etc.) are capable of operating in a variety of hardware transport solutions for both Program of Record (PoR) and commercial, non-developmental item (NDI) radios, increasing the level of joint interoperability for the tactical networks. JTN employs a competitive contracting strategy to ensure warfighter access to the best technology and capabilities while addressing threats and future requirements affordably, effectively, and in a timely fashion. The FY 2015 Budget supports continued development of waveforms/supporting software and testing.											
E. Performance Metrics											
N/A											

UNCLASSIFIED

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 0605031A / Joint Tactical Network (JTN)				Project (Number/Name) EF5 / Joint Tactical Network (JTN)					
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	C/CPFF	Various : Various	0.000	-		-		1.799	Mar 2014	-		1.799	-	1.799	-
Subtotal			0.000	-		-		1.799		-		1.799	-	1.799	-
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 Formal Qualification Testing-Link 16	C/CPIF	BAE : Wayne, NJ	0.000	-		-		0.444	Dec 2014	-		0.444	-	0.444	-
Post Formal Qualitfication Testing-JENM	C/CPIF	Boeing : Huntington Beach, CA	0.000	-		-		2.916	Oct 2014	-		2.916	-	2.916	-
Post Formal Qualitfication Testing-MUOS	C/CPIF	Lockheed Martin Corp. : Sunnyvale, CA	0.000	-		-		0.871	Dec 2014	-		0.871	-	0.871	-
Post Formal Qualitfication Testing-WNW	C/CPIF	General Dynamicscs : Scottsdale, AZ	0.000	-		-		2.758	Dec 2014	-		2.758	-	2.758	-
Post Formal Qualitfication Testing-SRW	C/CPIF	Harris : Rochester, NY	0.000	-		-		0.961	Dec 2014	-		0.961	-	0.961	-
Post FQT/Software Sustainment	MIPR	SSC PAC : San Diego, CA	0.000	-		-		3.566	Oct 2014	-		3.566	-	3.566	-
Post FQT/Software Sustainment	MIPR	CERDEC : APG, MD	0.000	-		-		0.917	Oct 2014	-		0.917	-	0.917	-
Post FQT/Software Sustainment	MIPR	SSC LANT : Charleston, SC	0.000	-		-		0.917	Oct 2014	-		0.917	-	0.917	-
Subtotal			0.000	-		-		13.350		-		13.350	-	13.350	-
Remarks															
FY 2015 PE 0605031A represents the total JTN RDTE budget.															
In accordance with the Acquisition Decision Memorandum (ADM) dated 11 July 2012, the JTRS Program of Records (PORs) transitioned to Military Department (MILDEP) managed programs. The continuing Joint Tactical Networks (JTN) will remain under a joint budget strategy in three MILDEPs in 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. The Joint															

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Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605031A / <i>Joint Tactical Network (JTN)</i>				Project (Number/Name) EF5 / <i>Joint Tactical Network (JTN)</i>					
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
Tactical Networking Center (JTNC) ADM and Charter dated 20 January 2014, disseminate the JTNC from JTN. Prior to the year of execution, the JTN funding is consolidated in the Army PE (0605031A) and software sustainment funds are realigned from RDT&E to O&M,A PE (4326750A) to support the JTN joint program acquisition strategy.															
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
Development/Engineering/Technical Support	C/CPFF	Various : various	0.000	-		-		2.850	Oct 2014	-		2.850	-	2.850	-
Subtotal			0.000	-		-		2.850		-		2.850	-	2.850	-
			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	-		-		17.999		-		17.999	-	17.999	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army	Date: March 2014
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0605031A / <i>Joint Tactical Network (JTN)</i>	Project (Number/Name) EF5 / <i>Joint Tactical Network (JTN)</i>
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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)																												

UNCLASSIFIED

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 0605031A / <i>Joint Tactical Network (JTN)</i>	Project (Number/Name) EF5 / <i>Joint Tactical Network (JTN)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Wideband networking Waveform (WNW)	1	2015	4	2015
Soldier Radios Waveform (SRW)	1	2015	4	2015
Mobile User Objective System (MUOS) Waveform	1	2015	4	2015
JTRS Enterprise Network Manager (JENM)	1	2015	4	2015