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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Army **Date:** February 2016

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605030A / <i>Joint Tactical Network Center (JTNC)</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	8.615	13.357	15.041	-	15.041	5.393	5.518	5.639	5.793	Continuing	Continuing
EA8: <i>Joint Tactical Network Center (JTNC)</i>	-	8.615	13.357	15.041	-	15.041	5.393	5.518	5.639	5.793	Continuing	Continuing

Note

In FY 2013, the Joint Tactical Networking Center (JTNC) and Joint Tactical Networks (JTN) were funded in the Navy Program Element (PE) 0604280N (Joint Tactical Radio System (JTRS)), Project No.3076 (formally known as JTRS Network Enterprise Domain (JNED)). JNED was renamed JTN and the Joint Executive Program Office (JPEO) JTRS transitioned to the JTNC in FY 2013, in accordance with the Acquisition Decision Memorandum (ADM) dated 11 July 2012. FY 2013 and FY 2014 JTNC funding was provided by the JTN Program via PE 0604280N and PE 0605030A, respectively.

In accordance with the Acquisition Decision Memorandum (ADM) and Charter dated 20 January 2014, the JTNC Program will remain under a joint budget strategy funded by the three MILDEPs (funding resides in Army PE 0605030A, Navy PE 0605030N, shared line, and Air Force PE 0605030F, shared line). 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 Army PE 0605030A for execution. FY2015-FY2017 reflects the full funding for JTNC. FY2018 and out reflects the Army share of the budget requirement.

A. Mission Description and Budget Item Justification

The JTNC is responsible for ensuring interoperable, secure, and affordable waveform and wireless communications by recommending standards, conducting compliance and certification assessments in accordance with Department of Defense (DoD) policies, and maintaining a DoD Waveform Information Repository (IR). JTNC (1) provides DoD Waveform Standards and Software Communications Architecture (SCA), (2) DoD Waveform IR management and configuration control, (3) technical assessments of DoD Waveform IR products, and (4) serves as a technical advisor to the JTNC Board of Directors (BoD).

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. JTNC efforts support Software Defined Radio (SDR) programs and industry. JTNC enables a common software baseline that is hardware agnostic leading to increased competition.

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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	8.436	13.357	5.201	-	5.201
Current President's Budget	8.615	13.357	15.041	-	15.041
Total Adjustments	0.179	0.000	9.840	-	9.840
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.179	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	9.840	-	9.840

Change Summary Explanation

FY15 increase to meet BoD approved mission requirements. FY17 increase is the consolidation of other Service funding into the Army PE for execution. In accordance with the Acquisition Decision Memorandum (ADM) and Charter dated 20 January 2014, the JTNC Program will remain under a joint budget strategy funded by the three MILDEPs (funding is in 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 Army PE 0605030A for execution.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Army										Date: February 2016		
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 (JTNC)</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
EA8: <i>Joint Tactical Network Center (JTNC)</i>	-	8.615	13.357	15.041	-	15.041	5.393	5.518	5.639	5.793	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY2015 and beyond contains funding only for JTNC. Prior to FY2015, JTNC funding consisted of shared lines with the Joint Tactical Networks (JTN) program. In FY 2014, PE 0605030A contains shared funding for JTN and JTNC. In FY2013, JTNC was funded via PE 0604280N. FY2015-FY2017 reflects the full JTNC requirement with the consolidated funding from the other Services. FY2018 and out reflects only the Army portion of the JTNC budget.

A. Mission Description and Budget Item Justification

The JTNC is responsible for ensuring interoperable, secure, and affordable waveform and wireless communications by recommending standards, conducting compliance and certification assessments in accordance with Department of Defense (DoD) policies, and maintaining a DoD Waveform Information Repository (IR). JTNC (1) provides DoD Waveform Standards and Software Communications Architecture (SCA), (2) DoD Waveform IR management and configuration control, (3) technical assessments of DoD Waveform IR products, and (4) serves as a technical advisor to the JTNC Board of Directors (BoD).

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. JTNC enables a common software baseline that is hardware agnostic leading to increased competition for Software Defined Radios.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2015	FY 2016	FY 2017
Title: JTNC IR Engineering Development and Program Management Support	8.615	13.357	15.041
Description: Joint Tactical Networking Center (JTNC) will achieve alignment with the JTNC BoD, USD(AT&L), DoD CIO, Joint Staff, the Services, and other key stakeholders for those JTNC chartered processes that ensure interoperable, secure, and affordable waveform and wireless communications. Facilitate the reuse of waveform and wireless communications and foster product capability improvements by making government owned waveform and wireless communications products available to developers. Provide open architecture DoD Waveform Standards in support of service, multi-service, and coalition forces. Provide certification recommendations on wireless communications products in support of service, multiservice, and coalition forces. Foster a culture of continuous improvement through the application of techniques such as Lean Six Sigma (LSS), efficiency recommendations, and use of common processes, to achieve efficiencies on behalf of JTNC customers.			
FY 2015 Accomplishments:			

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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 (JTNC)</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p>Completed the SRW V1.01.1 assessment process pilot and implemented lessons learned. Completed SINCGARV2.0 assessment and received JTNC Board of Directors approval to induct SRW v1.01.1 into the DoD Waveform Information Repository (IR). Opened the DoD Waveform IR for requests, receipt, and processing. Successfully submitted and had 6 standards and 16 Application Program Interfaces (APIs) listed in the DoD IT Standards Registry (DISR) as mandatory standards. Transitioned the PM JTN Developmental IR to JTNC management. Supported export requests and assessments of products for exportability.</p> <p>FY 2016 Plans: Complete analyses on 2 waveforms to include: Mobile Objective User System (MUOS) v3.1.3 and Wideband Networking Waveform (WNW) v4.2. Initiate analysis of Link-16 vCMN4. Validate start requirements for Standard Common Data Link (STD CDL) and SRW v1.2.2 in preparation for future analysis. Evolve DoD Waveform Standards to facilitate common development, interoperability and re-use. Support export requests and assessments of products for exportability.</p> <p>FY 2017 Plans: Complete analyses on Service prioritized waveforms for induction into the DoD Waveform IR. Evolve DoD Waveform Standards to facilitate common development, interoperability and re-use. Support export requests and assessments of products for exportability.</p>			
Accomplishments/Planned Programs Subtotals	8.615	13.357	15.041

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0605030N: 0605030N: JTNC, RDTE,N	-	-	-	-	-	4.528	4.620	4.714	4.823	Continuing	Continuing
• 0605030F: 0605030F: JTNC, RDTE,F	-	-	-	-	-	5.585	5.698	5.811	5.968	Continuing	Continuing

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 Joint Tactical Radio System (JTRS) Network Enterprise Domain (JNED). This was a shared line with PM Joint Tactical Networks (JTN). In FY 2014, the funding that resided in Army PE 0605030A represented the total JTNC and PM JTN Budget. In FY 2015 PE 0605030A represented only the JTNC funding.

Other Funding: 0605030N represents Navy allocated funding for JTNC from FY2018-2021. 0605030F represents Air Force allocated funding for JTNC from FY2018-2021. FY2015-FY2017 amounts are zero due to Joint Funding Strategy. Prior to the year of execution, the JTNC funding is consolidated in Army PE 0605030A for execution. In accordance with the Joint Tactical Networking Center Acquisition Decision Memorandum and Charter dated 20 January 2014, the JTNC will remain

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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 (JTNC)</i>

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
under a Joint Budget Strategy funded by the three MILDEPs. As part of the Joint Program Budget Strategy, each MILDEP budgets for approximately one-third of the total program RDT&E funds.											

D. Acquisition Strategy

Joint Tactical Networking Center (JTNC) is classified as a Joint Support Program to Acquisition, Technology & Logistics (AT&L), DoD Chief Information Officer (CIO), and the Services. 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 2017 Budget supports continued development/maturation of the DoD Waveform Information Repository, support of the National Security Agency (NSA) Commercial Communications Security (COMSEC) Evaluation Program (CCEP), and the JTNC Standards Interface Control Working Group (ICWG).

E. Performance Metrics

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

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 (JTNC)
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Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	Multiple Contract Awards : Various	5.898	0.292	Jan 2015	0.220	Oct 2015	0.244	Oct 2016	-		0.244	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	G2 Software Systems 01/04 : San Diego, CA	0.000	0.426	Nov 2014	0.766	Nov 2015	0.849	Nov 2016	-		0.849	Continuing	Continuing	Continuing
Program Management Support	Allot	Aberdeen Proving Grounds : Aberdeen, MD	0.000	0.178	Oct 2014	0.358	Oct 2015	0.403	Oct 2016	-		0.403	Continuing	Continuing	Continuing
Program Management Support	MIPR	SSC PACIFIC : San Diego, CA	0.000	0.092	Nov 2014	0.131	Oct 2015	0.147	Nov 2016	-		0.147	Continuing	Continuing	Continuing
Program Management Support	FFRDC	MITRE : McLean, VA	0.000	-		-		0.058	Dec 2016	-		0.058	Continuing	Continuing	Continuing
Subtotal			5.898	0.988		1.475		1.701		-		1.701	-	-	-

Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
JTNC Product Development	MIPR	SSC PACIFIC : San Diego, CA	0.000	0.662	Oct 2014	1.389	Nov 2015	1.542	Oct 2016	-		1.542	Continuing	Continuing	Continuing
JTNC Product Development Support	C/CPFF	G2 Software Systems 04 : San Diego, CA	0.000	0.562	Oct 2014	1.141	Oct 2015	1.285	Nov 2016	-		1.285	Continuing	Continuing	Continuing
JTNC Product Development Support	C/CPFF	G2 Software Systems 01 : San Diego, CA	0.000	-		1.261	Oct 2015	1.441	Oct 2016	-		1.441	Continuing	Continuing	Continuing
JTNC Product Development	C/CPFF	Booz Allen Hamilton : San Diego, CA	0.000	1.184	Nov 2014	-		-		-		-	0.000	1.184	1.184
JTNC Product Development - Other	Allot	Aberdeen Proving Grounds : Aberdeen, MD	0.000	0.382	Nov 2014	-		-		-		-	0.000	0.382	0.382

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army **Date:** February 2016

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 (JTNC)
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Certification (Interim SCA Compliance Testing)	MIPR	NSA: : Ft. Meade, MD	0.421	-		-		-		-		-	0	0.421	0.421
Post FQT / Software Sustainment	MIPR	SSC PAC: : San Diego, CA	9.805	-		-		-		-		-	0	9.805	9.805
Post FQT/ Software Sustainment	MIPR	CERDEC : APG, MD	1.397	-		-		-		-		-	0	1.397	1.397
Post FQT/ software Sustainment	MIPR	SSC LANT : Charleston, SC	5.200	-		-		-		-		-	0	5.200	5.200
Post Formal Qualification Testing- LINK 16	C/CPIF	BAE: : Wayne, NJ	3.045	-		-		-		-		-	0	3.045	3.045
Product Development WNW	C/CPIF	General Dynamics : Scottsdale, AZ	2.079	-		-		-		-		-	0	2.079	2.079
Post Formal Qualification Testing- JENM	C/CPIF	Boeing: : Huntington Beach, CA	0.796	-		-		-		-		-	0	0.796	0.796
Network Enterprise Services Development	C/CPIF	Boeing: : Huntington Beach, CA	14.860	-		-		-		-		-	0	14.860	14.860
Product Development SRW	C/CPIF	Harris Corp : Rochester, NY	1.070	-		-		-		-		-	0	1.070	1.070
Post Formal Qualification Testing- MUOS	C/CPIF	Lockheed Martin Corp : Sunnyvale, CA	0.593	-		-		-		-		-	0	0.593	0.593
Post Formal Qualification Testing- WNW	C/CPIF	General Dynamics: : Scottsdale, AZ	0.967	-		-		-		-		-	0	0.967	0.967
Post Formal Qualification Testing: JENM	C/CPFF	Exelis Inc. : Alexandria, VA	4.525	-		-		-		-		-	0	4.525	4.525
Subtotal			44.758	2.790		3.791		4.268		-		4.268	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
2040 / 5				PE 0605030A / Joint Tactical Network Center (JTNC)					EA8 / Joint Tactical Network Center (JTNC)						
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
JTNC Engineering/ Technical Support	C/CPFF	G2 Software Systems 01/04 : San Diego, CA	0.000	1.214	Nov 2014	1.546	Oct 2015	1.795	Nov 2016	-		1.795	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	FFRDC	MITRE Corporation : McLean, VA	0.228	0.129	Dec 2014	0.149	Oct 2015	0.167	Nov 2016	-		0.167	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	Aberdeen Proving Grounds : Aberdeen, MD	0.000	0.274	Nov 2014	0.484	Oct 2015	0.545	Nov 2016	-		0.545	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	SSC PACIFIC : San Diego, CA	0.000	-		0.620	Nov 2015	0.639	Oct 2016	-		0.639	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	C/CPFF	Booz Allen Hamilton : San Diego	14.965	-		-		-		-		-	0	14.965	14.965
Subtotal			15.193	1.617		2.799		3.146		-		3.146	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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/Test & Evaluation	MIPR	SSC PACIFIC : San Diego, CA	0.000	1.286	Nov 2014	1.316	Oct 2015	1.476	Nov 2016	-		1.476	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	G2 Software Systems 01 : San Diego, CA	0.000	-		0.929	Oct 2015	1.032	Oct 2016	-		1.032	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	Multiple Awards : Various	0.000	0.221	Dec 2014	0.468	Oct 2015	0.526	Nov 2016	-		0.526	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	G2 Software Systems 04 : San Diego, CA	0.000	0.471	Nov 2014	2.213	Nov 2015	2.479	Nov 2016	-		2.479	Continuing	Continuing	Continuing
Development/Test & Evaluation	MIPR	National Security Agency : Ft. Meade, MD	0.000	-		0.289	Dec 2015	0.326	Dec 2016	-		0.326	Continuing	Continuing	Continuing

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Army		Date: February 2016
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Wireless Communication Product Compliance and Certification	1	2016	4	2021
DoD Waveform Information Repository	1	2016	4	2021
Evolve Waveform Standards	1	2016	4	2021
Analyze Waveforms and Artifacts	1	2016	4	2021

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