

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army										Date: March 2019		
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	15.242	15.869	15.882	-	15.882	5.833	5.835	5.490	5.847	Continuing	Continuing
EA8: Joint Tactical Networking Center	-	15.242	15.869	15.882	-	15.882	5.833	5.835	5.490	5.847	Continuing	Continuing

## Note

Joint Tactical Networking Center (JTNC) is funded using a Joint budget strategy. Each Military Department (MILDEP) budgets for approximately one-third of the total program RDT&E requirements for joint efforts. Fiscal Year (FY) 2018 to FY 2020 funding reflects the full JTNC requirement with the consolidated funding from the other Services, while FY 2021 and beyond reflects the Army one-third portion of total program RDT&E funds. Out-year funding is programmed in PE 0605030A by the Army, PE 0605030N by the Navy and PE 0605030F by the Air Force. Prior to submission of the President's Budget, the funding is consolidated in PE 0605030A for execution.

## 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 analyses in accordance with Department of Defense (DoD) policies, and maintaining a DoD Waveform Information Repository (IR). The JTNC provides: (1) DoD Waveform IR management and configuration control, (2) DoD waveform standards and Software Communications Architecture (SCA), (3) technical analyses of DoD and industry Waveform IR products, and (4) serves as 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), National Telecommunication and Information Administration (NTIA), the Services, as well as industry partners. Particular attention is paid to ensuring that interagency work is collaborative and eliminates duplicative capability. The JTNC enables a common software baseline that is hardware agnostic leading to increased competition for Software Defined Radios.

The Joint Tactical Networking Center supports the Army's Network Modernization Strategy Line of Effort (LOE).

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)		PE 0605030A I Joint Tactical Network Center (JTNC)			
B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	15.877	15.889	5.723	-	5.723
Current President's Budget	15.242	15.869	15.882	-	15.882
Total Adjustments	-0.635	-0.020	10.159	-	10.159
• Congressional General Reductions	-0.013	-0.020			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.622	-			
• Adjustments to Budget Years	-	-	10.159	-	10.159
Change Summary Explanation					
FY 2020 - Net increase of \$10.159 million is the result of funding realignment from Navy PE 0605030N and Air Force PR 0605030F to Army PE 0605030A as part of the Joint Budget Strategy.					

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Army										Date: March 2019		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605030A / Joint Tactical Network Center (JTNC)				Project (Number/Name) EA8 / Joint Tactical Networking Center			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
EA8: Joint Tactical Networking Center	-	15.242	15.869	15.882	-	15.882	5.833	5.835	5.490	5.847	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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This mission is executed in conjunction with other government agencies to include the National Security Agency (NSA), the Joint Interoperability Test Command (JITC), National Telecommunication and Information Administration (NTIA), the Services, as well as industry partners. Particular attention is paid to ensuring that interagency work is collaborative and eliminates duplicative capability. The JTNC enables a common software baseline that is hardware agnostic leading to increased competition for Software Defined Radios (SDR).

The Joint Tactical Networking Center supports the Army's Network Modernization Strategy Line of Effort (LOE).

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

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>Title:</b> DoD Waveform IR Support, Waveform Standards Evolution and Compliance & Certification Analysis	15.242	15.869	15.882
<b>Description:</b> Joint Tactical Networking Center (JTNC) aligns with the JTNC BoD, USD(AT&L), DoD Chief Information Officer (CIO), Joint Staff, the Services, and other key stakeholders for those JTNC chartered processes that ensure interoperable, secure, and cost effective waveform and wireless communications. The JTNC: (1) Facilitates the reuse of waveform and wireless communications and fosters product capability improvements by making government owned waveform and wireless communications products available to developers, (2) provides open architecture DoD Waveform Standards in support of service, multiservice, and coalition forces, (3) provides compliance and certification recommendations on wireless communications			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>
products in support of service, multiservice, and coalition forces. The Joint Tactical Networking Center supports the Army's Network Modernization Strategy Line of Effort 1A - Unified Network.			
<b>FY 2019 Plans:</b> The JTNC will conduct waveform analyses of the following waveforms (based on waveform software and related technical artifact availability) to include: Commercial (Harris) - Advanced Networking Wideband Waveform (ANW2); DoD (Navy) - Mobile User Objective System (MUOS) v3.1.5.2, Link 16 Engineering Release 0G (ER0G), Second-Generation Anti-Jam Tactical UHF Radio for North Atlantic Treaty Organization (NATO) (SATURN) and the Joint Waveform (formally Uniform MEECN Mode). The JTNC will continue collecting relevant software, technical documentation, cataloging and inducting other DoD Communication Waveforms listed in the DoD Communication Waveform Inventory. The JTNC will continue to enhance the Department of Defense (DoD) Waveform Information Repository (IR) capability and Software Communications Architecture (SCA) evolution and promulgation. The JTNC will continue to evolve DoD Waveform Standards to facilitate common development, interoperability and re-use. The JTNC will support export requests and analyses of products for exportability.			
<b>FY 2020 Plans:</b> Continue analysis of Board of Directors approved waveforms in accordance with Service priorities and the FY 2020 JTNC Management Plan. Continue collecting relevant software, technical documentation, cataloging and inducting other DoD Communication Waveforms listed in the DoD Communication Waveform Inventory. Continue to enhance DoD Waveform IR capability and approved Standards promulgation.			
Continue the development of the tactical communications vendor product capability characterization process for commercial off-the-shelf (COTS) and non-developmental item (NDI) tactical communication products. Continue to evolve DoD Waveform Standards to facilitate common development, interoperability and re-use, reducing product development time and facilitating faster delivery of capabilities to warfighters. Continue to conduct technical waveform and software artifact analyses against published standards. Continue to support export requests and analyses of products for exportability. Continue to certify secure, reusable software waveforms based on government controlled open architecture to encourage a competitive, cost effective, interoperable networking environment.			
<b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> FY 2019 accounts for SBIR / STTR Transfer (\$0.582). FY 2019 to FY 2020 decrease of \$0.013 is consistent with anticipated programmatic requirements.			
<b>Accomplishments/Planned Programs Subtotals</b>		15.242	15.869
<b>C. Other Program Funding Summary (\$ in Millions)</b>			
N/A			

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<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605030A / <i>Joint Tactical Network Center (JTNC)</i>	<b>Project (Number/Name)</b> EA8 / <i>Joint Tactical Networking Center</i>
<b>C. Other Program Funding Summary (\$ in Millions)</b>		
<b>Remarks</b> <p>The Joint Tactical Networking Center is funded by all the Services. The Joint Funding Strategy requires each of the three Service Military Departments (MILDEPs) to budget for one-third of the total program approved requirement. Army funding in FY 2021 and beyond reflects only approximately one-third of total funding. Other funding is as follows (PB20 locked positions):</p> <p>Navy RDTE: 0605030N, 3077.      FY 2021 = 4,644 // FY 2022 = 4,741 // FY 2023 = 4,835 // FY 2024 = 4,932  Air Force RDTE: 0605030F, 655068.      FY 2021 = 5,737 // FY 2022 = 5,852 // FY 2023 = 5,969 // FY 2024 = 6,088</p> <p>Due to Joint Funding Strategy, there is no prior year funding for JTNC in the other Service lines. 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 Charter updated and re-validated on 29 March 2016, the JTNC will remain under a Joint Budget Strategy funded by the three MILDEPs.</p>		
<b>D. Acquisition Strategy</b>		
<p>Joint Tactical Networking Center is classified as a Joint Support Program to Acquisition, Technology &amp; Logistics (AT&amp;L), DoD Chief Information Officer (CIO), and the Services. JTNC core functions as defined in the JTNC Acquisition Decision Memorandum and Charter signed on 20 January 2014 and revalidated on 29 March 2016 include: Department of Defense (DoD) Waveform Information Repository (IR) management and configuration control, DoD Waveform Standards and Software Communications Architecture (SCA), technical analyses of Government Program of Record (POR) and Industry COTS and NDI Waveform products. The services derived from these core functions reinforce an acquisition environment which ensures that interoperable, secure, and affordable joint tactical waveforms and wireless communications applications can operate in a variety of hardware transport solutions.</p> <p>The FY2020 Budget supports continued development/maturation of the DoD Waveform IR, analysis of directed software and artifacts, support of the National Security Agency (NSA) Commercial Communications Security (COMSEC) Evaluation Program (CCEP), JTNC Standards Interface Control Working Group (ICWG), and continue development of the Capabilities Characterization and Tactical Communications Marketplace (CC &amp; TCM).</p>		
<b>E. Performance Metrics</b>		
N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Army												Date: March 2019			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605030A / Joint Tactical Network Center (JTNC)				Project (Number/Name) EA8 / Joint Tactical Networking Center					
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	6.645	0.276	Dec 2017	0.210	Oct 2018	0.180	Oct 2019	-		0.180	Continuing	Continuing	Continuing
Program Management Support	C/CPFF	G2 Software Systems : San Diego, CA	2.010	0.947	Dec 2017	0.831	Nov 2018	0.384	Nov 2019	-		0.384	Continuing	Continuing	Continuing
Program Management Support	Allot	Aberdeen Proving Grounds : Aberdeen. MD	0.684	0.173	Nov 2017	0.255	Oct 2018	0.105	Oct 2019	-		0.105	Continuing	Continuing	Continuing
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	-	-		0.072	Oct 2018	-		-		-	Continuing	Continuing	Continuing
Program Management Support	MIPR	SSC PACIFIC : San Diego, CA	0.364	-		-		-		-		-	0.000	0.364	0.364
Program Management Support	FFRDC	MITRE : McLean, VA	0.058	-		-		-		-		-	0.000	0.058	0.058
Subtotal			9.761	1.396		1.368		0.669		-		0.669	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 Support	MIPR	SSC PACIFIC : San Diego, CA	3.207	0.822	Dec 2017	0.572	Nov 2018	0.399	Oct 2019	-		0.399	Continuing	Continuing	Continuing
JTNC Product Development Support	C/CPFF	G2 Software Systems : San Diego, CA	5.595	2.742	Nov 2017	2.875	Oct 2018	2.485	Nov 2019	-		2.485	Continuing	Continuing	Continuing
JTNC Product Development Support	MIPR	SSC ATLANTIC : Charleston, SC	-	0.053	Dec 2017	0.151	Oct 2018	2.974	Oct 2019	-		2.974	Continuing	Continuing	Continuing
JTNC Product Development Support	MIPR	Various : Aberdeen. MD	-	1.147	Oct 2017	1.097	Oct 2018	0.294	Nov 2019	-		0.294	Continuing	Continuing	Continuing
JTNC Product Development	C/CPFF	Booz Allen Hamilton : San Diego, CA	1.184	-		-		-		-		-	0.000	1.184	1.184

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<b>Product Development (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
JTNC Product Development - Other	Allot	Aberdeen Proving Grounds : Aberdeen, MD	0.382	-		-		-		-		-	0.000	0.382	0.382
Joint Tactical Networks (JTN) Legacy Development - MIPR	MIPR	Various : Various	19.868	-		-		-		-		-	0.000	19.868	19.868
Joint Tactical Networks (JTN) Legacy Development - Contracts	C/CPIF	Various : Various	24.890	-		-		-		-		-	0.000	24.890	24.890
<b>Subtotal</b>			55.126	4.764		4.695		6.152		-		6.152	Continuing	Continuing	N/A
<b>Support (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
JTNC Engineering/ Technical Support	C/CPFF	G2 Software Systems : San Diego, CA	4.494	0.973	Dec 2017	0.771	Oct 2018	0.716	Nov 2019	-		0.716	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	FFRDC	MITRE Corporation : McLean, VA	0.667	0.159	Nov 2017	0.151	Oct 2018	0.157	Oct 2019	-		0.157	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	Aberdeen Proving Grounds : Aberdeen, MD	1.284	0.741	Nov 2017	0.758	Oct 2018	0.209	Nov 2019	-		0.209	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	SSC PACIFIC : San Diego, CA	1.234	0.605	Oct 2017	0.706	Nov 2018	0.357	Oct 2019	-		0.357	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	MIPR	Various : San Diego, CA	-	0.877	Nov 2017	0.785	Nov 2018	1.340	Nov 2019	-		1.340	Continuing	Continuing	Continuing
FY 2019 SBIR / STTR Transfer	TBD	TBD : TBD	-	-		0.510	Oct 2018	-		-		-	Continuing	Continuing	Continuing
JTNC Engineering/ Technical Support	C/CPFF	Booz Allen Hamilton : San Diego	14.965	-		-		-		-		-	0.000	14.965	14.965
<b>Subtotal</b>			22.644	3.355		3.681		2.779		-		2.779	Continuing	Continuing	N/A

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Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	4.027	1.377	Dec 2017	2.027	Oct 2018	1.905	Oct 2019	-		1.905	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	G2 Software Systems 01 : San Diego, CA	1.924	4.034	Dec 2017	3.647	Oct 2018	3.259	Nov 2019	-		3.259	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	JITC/Multiple Awards : Various	1.196	0.144	Nov 2017	0.171	Oct 2018	0.675	Nov 2019	-		0.675	Continuing	Continuing	Continuing
Development/Test & Evaluation	C/CPFF	Booz Allen Hamilton - NSA : Ft. Meade, MD	-	-		0.280	Dec 2018	0.443	Nov 2019	-		0.443	Continuing	Continuing	Continuing
Development/Test & Evaluation	MIPR	National Security Agency : Ft. Meade, MD	0.603	0.172	Oct 2017	-		-		-		-	0.000	0.775	0.775
Development/Test & Evaluation	C/CPFF	G2 Software Systems 04 : San Diego, CA	5.078	-		-		-		-		-	0.000	5.078	5.078
Development/Test & Evaluation	MIPR	SSC ATLANTIC : Charleston, SC	0.160	-		-		-		-		-	0.000	0.160	0.160
Development/Test & Evaluation	C/CPFF	Booz Allen Hamilton : San Diego, CA	1.242	-		-		-		-		-	0.000	1.242	1.242
Subtotal			14.230	5.727		6.125		6.282		-		6.282	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			101.761	15.242		15.869		15.882		-		15.882	Continuing	Continuing	N/A
Remarks															



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**Exhibit R-4, RDT&E Schedule Profile: PB 2020 Army**

Date: March 2019

**Appropriation/Budget Activity**

2040 / 5

### R-1 Program Element (Number/Name)

PE 0605030A / Joint Tactical Network  
Center (JTNC)

Project (Number/Name)	Start Date	End Date	Status	Manager	Budget (USD)	Actual Cost (USD)	Progress (%)	Risk Level	Notes
101	2023-01-15	2023-03-31	Completed	John Doe	150000	148000	100	Low	Project completed ahead of schedule.
102	2023-02-01	2023-05-15	In Progress	Jane Smith	220000	180000	82	Medium	Minor delays in procurement.
103	2023-03-01	2023-06-30	On Hold	Mike Johnson	90000	0	0	High	Waiting for client approval.
104	2023-04-10	2023-07-31	Planned	Sarah Lee	300000	0	0	Medium	Initial planning phase.
105	2023-05-01	2023-08-31	On Hold	David Kim	180000	0	0	Low	Resource allocation pending.
106	2023-06-01	2023-09-30	Planned	Emily White	250000	0	0	Medium	Scope definition in progress.
107	2023-07-01	2023-10-31	Planned	Chris Brown	120000	0	0	Low	Feasibility study ongoing.
108	2023-08-01	2023-11-30	Planned	Alex Green	170000	0	0	Medium	Initial team formation.
109	2023-09-01	2023-12-31	Planned	Nina Black	200000	0	0	Low	Requirement gathering.
110	2023-10-01	2024-01-31	Planned	Kevin Grey	160000	0	0	Medium	Design phase starting.

EA8 / Joint Tactical Networking Center

Event Name	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Waveform and Wireless Product Compliance and Certification																												
					JTNC Waveform and Wireless Certification																							
DoD Waveform Information Repository																												
JTNC Information Repository																												
Evolve Waveform Standards and SCA																												
JTNC Standards and SCA																												
Analyze Waveforms and Associated Artifacts																												
JTNC Analyses																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Army			Date: March 2019
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Waveform and Wireless Product Compliance and Certification	1	2019	4	2024
DoD Waveform Information Repository	1	2019	4	2024
Evolve Waveform Standards and SCA	1	2019	4	2024
Analyze Waveforms and Associated Artifacts	1	2019	4	2024