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

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0605350A / WIN-T Increment 3 - Full Networking
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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	-	108.851	33.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	142.366
EE8: WIN-T Increment 3 - Full Networking	-	108.851	33.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	142.366

Note

Program was funded in PE 0603782A, project 372 in FY 2014 and prior.

A. Mission Description and Budget Item Justification

Warfighter Information Network – Tactical (WIN-T) Increment 3 (Inc 3) develops the Network Operations (NetOps) software to meet the Army’s Network Convergence goals. NetOps provides the monitoring, control and planning tools to ensure management of the voice, data and internet transport networks. The NetOps software will also provide Information Assurance and Network Centric Enterprise Services. This allows for seamless integration of the tactical network planning, management, monitoring, and defense for the Signal staff. These NetOps improvements simplify the management of the network and increase the automation of tools and reporting. The developed NetOps software enhancements will be provided as a technical insertion to WIN-T Increments 1 and 2 for fielding and support.

Increment 3 also develops the enhanced Net Centric Waveform (NCW) version 10.x for increased throughput capability beyond the line of sight satellite communication and the Highband Networking Waveform (HNW) version 3.0 for line of sight communications. Both NCW and HNW provide improved network capacity and robustness. The waveform improvements will be available for use in PM WIN-T and other Army and DoD programs.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	113.155	39.700	0.000	-	0.000
Current President's Budget	108.851	33.515	0.000	-	0.000
Total Adjustments	-4.304	-6.185	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-6.185			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-4.304	-			

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605350A / WIN-T Increment 3 - Full Networking				Project (Number/Name) EE8 / WIN-T Increment 3 - Full Networking			
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
EE8: WIN-T Increment 3 - Full Networking	-	108.851	33.515	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	142.366
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Program was funded in PE 0603782A, project 372 in FY 2014 and prior.

A. Mission Description and Budget Item Justification

Warfighter Information Network – Tactical (WIN-T) Increment 3 (Inc 3) develops the Network Operations (NetOps) software to meet the Army’s Network Convergence goals. NetOps provides the monitoring, control and planning tools to ensure management of the voice, data and internet transport networks. The NetOps software will also provide Information Assurance and Network Centric Enterprise Services. This allows for seamless integration of the tactical network planning, management, monitoring, and defense for the Signal staff. These NetOps improvements simplify the management of the network and increase the automation of tools and reporting. The developed NetOps software enhancements will be provided as a technical insertion to WIN-T Increments 1 and 2 for fielding and support.

Increment 3 also develops the enhanced Net Centric Waveform (NCW) version 10.x for increased throughput capability beyond the line of sight satellite communication and the Highband Networking Waveform (HNW) version 3.0 for line of sight communications. Both NCW and HNW provide improved network capacity and robustness. The waveform improvements will be available for use in PM WIN-T and other Army and DoD programs.

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

	FY 2015	FY 2016	FY 2017
Title: Increment 3 Product Development	81.805	6.184	-
Description: Increment 3 Engineering Manufacturing Development (EMD) continues development of the Inc 3 system software development and prototype manufacturing of test assets for the Inc 3 system.			
FY 2015 Accomplishments: Continues development of NetOps software build 4/5 , completes the Highband Networking Waveform (HNW) version 3.0 development and Net Centric Waveform (NCW) version 10.x certification. Manufacture the NetOps and waveform specific hardware for test assets.			
FY 2016 Plans: Completes development and testing of assets for HNW 3.0 over the air demonstration, followed by insertion into the repository.			
Title: Test and Engineering	16.516	24.031	-
Description: Test and Evaluation			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p><i>FY 2015 Accomplishments:</i> FY15 T&E funds are required to continue testing of the NetOps Builds through Functional Qualification Testing 1 (FQT), FQT 2, HNW FQT, NCW Government Development Test (GDT) conduct NCW 10.x testing, conduct HNW 3.0 parameter analysis and develop multi-node emulator to support on-going scalability work.</p> <p><i>FY 2016 Plans:</i> FY 2016 completes funding the Engineering and Manufacturing Development (EMD) testing by funding FQT 3, Operational Testing of NetOps Builds at the Network Integration Evaluation (NIE) 16.2 and HNW over the air Demonstration.</p>			
<p><i>Title:</i> Management Services</p> <p><i>Description:</i> Provides System Engineering and Program Management Support.</p> <p><i>FY 2015 Accomplishments:</i> Continues System Engineering and Program Management Support.</p> <p><i>FY 2016 Plans:</i> Completes System Engineering and Program Management Support and funds smart shutdown process.</p>	10.530	3.300	-
Accomplishments/Planned Programs Subtotals	108.851	33.515	-

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

N/A

Remarks

D. Acquisition Strategy

An evolutionary acquisition strategy is being utilized to provide for the timely insertion of new technologies into Army communication systems by adhering to the basic principles of the DoD Modular Open Systems Approach (MOSA). This allows the Army to keep pace with changing commercial technology and maintain required interoperability with other joint, strategic and commercial standards-based networks. Applying integrated Network Operations (NetOps) capability, WIN-T provides the capability to manage, prioritize, and protect information. It ensures NetOps commonality with Joint, Allied, Coalition, Current Force, and Commercial voice and data networks.

The program is presently in its Engineering, Manufacturing, and Development (EMD) phase, as WIN-T Inc 3 technology is being tested and released over time and will be inserted into WIN-T Inc 1 and Inc 2.

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The Acquisition Decision Memorandum (ADM) dated 30 May 2014 directed the restructure of Inc 3 program. Software development for NetOps Build 4/5 and NCW 10.x is to be completed and testing in FY 2016. The ADM allowed for the development and demonstration of HNW 3.0. The program will also cease all efforts associated with development of Inc 3 unique hardware items and will have an efficient and effective smart shutdown.

An updated Acquisition Program Baseline (APB) was approved by the AAE on 15 Sep 14 and shows no Nunn-McCurdy risk due to the program quantity being zero. Likewise, the Program Acquisition Unit Cost/Average Procurement Unit Cost (PAUC/APUC) are no longer applicable.

E. Performance Metrics

N/A

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

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Management Services (\$ 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			
Program Management Support	C/FFPLOE	Various : Various	0.000	10.530		3.300		-		-		-	0	13.830	0
Subtotal			0.000	10.530		3.300		-		-		-	0.000	13.830	0.000

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			
Increment 3 Engineering Manufacturing and Development	SS/CPFF	General Dynamics C4 Systems Inc : Taunton, MA	0.000	81.805		6.184		-		-		-	0	87.989	0
Subtotal			0.000	81.805		6.184		-		-		-	0.000	87.989	0.000

Test and Evaluation (\$ 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			
Testing	Various	Various : Various	0.000	16.516		24.031		-		-		-	0	40.547	0
Subtotal			0.000	16.516		24.031		-		-		-	0.000	40.547	0.000

Project Cost Totals	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
	0.000	108.851	33.515	-	-	-	0.000	142.366	0.000

Remarks

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

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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
NetOps Build 4/5																												
FQT 2																												
FQT 3																												
NetOps FOT at NIE 16.2																												
NCW 10.x Certification																												
NCW Test																												
Build 4e (NCW NetOps)																												
FQT 1 (Build 4e)																												
HNW Demo Prep																												
HNW FQT																												
HNW Demo																												
NIE 16.2 (NetOps/NCW)																												
(1) Program Termination																												

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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
NetOps Build 4/5	1	2014	3	2016
FQT 2	3	2015	4	2015
FQT 3	1	2016	1	2016
NetOps FOT at NIE 16.2	3	2016	3	2016
NCW 10.x Certification	1	2014	4	2015
NCW Test	4	2015	4	2015
Build 4e (NCW NetOps)	2	2014	2	2015
FQT 1 (Build 4e)	1	2015	2	2015
HNW Demo Prep	4	2014	3	2016
HNW FQT	1	2015	2	2015
HNW Demo	3	2016	4	2016
NIE 16.2 (NetOps/NCW)	3	2016	3	2016
Program Termination	4	2016	4	2016

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