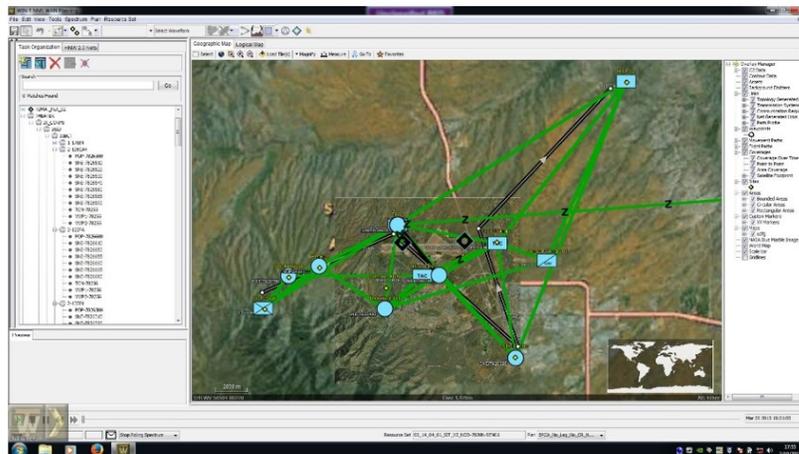




## Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-350

### Increment 3 Network Operations Capability



## Warfighter Information Network-Tactical Increment 3 (WIN-T Inc 3)

As of FY 2017 President's Budget

Defense Acquisition Management  
Information Retrieval  
(DAMIR)

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## Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance  
ACAT - Acquisition Category  
ADM - Acquisition Decision Memorandum  
APB - Acquisition Program Baseline  
APPN - Appropriation  
APUC - Average Procurement Unit Cost  
\$B - Billions of Dollars  
BA - Budget Authority/Budget Activity  
Blk - Block  
BY - Base Year  
CAPE - Cost Assessment and Program Evaluation  
CARD - Cost Analysis Requirements Description  
CDD - Capability Development Document  
CLIN - Contract Line Item Number  
CPD - Capability Production Document  
CY - Calendar Year  
DAB - Defense Acquisition Board  
DAE - Defense Acquisition Executive  
DAMIR - Defense Acquisition Management Information Retrieval  
DoD - Department of Defense  
DSN - Defense Switched Network  
EMD - Engineering and Manufacturing Development  
EVM - Earned Value Management  
FOC - Full Operational Capability  
FMS - Foreign Military Sales  
FRP - Full Rate Production  
FY - Fiscal Year  
FYDP - Future Years Defense Program  
ICE - Independent Cost Estimate  
IOC - Initial Operational Capability  
Inc - Increment  
JROC - Joint Requirements Oversight Council  
\$K - Thousands of Dollars  
KPP - Key Performance Parameter  
LRIP - Low Rate Initial Production  
\$M - Millions of Dollars  
MDA - Milestone Decision Authority  
MDAP - Major Defense Acquisition Program  
MILCON - Military Construction  
N/A - Not Applicable  
O&M - Operations and Maintenance  
ORD - Operational Requirements Document  
OSD - Office of the Secretary of Defense  
O&S - Operating and Support  
PAUC - Program Acquisition Unit Cost

PB - President's Budget  
PE - Program Element  
PEO - Program Executive Officer  
PM - Program Manager  
POE - Program Office Estimate  
RDT&E - Research, Development, Test, and Evaluation  
SAR - Selected Acquisition Report  
SCP - Service Cost Position  
TBD - To Be Determined  
TY - Then Year  
UCR - Unit Cost Reporting  
U.S. - United States  
USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

## Program Information

**Program Name**

Warfighter Information Network-Tactical Increment 3 (WIN-T Inc 3)

**DoD Component**

Army

## Responsible Office

COL Gregory Coile  
PM WIN-T  
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Aberdeen Proving Ground, MD 21005-1848

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**Fax:** 443-395-7208  
**DSN Phone:** 648-7223  
**DSN Fax:** 648-7208  
**Date Assigned:** July 20, 2015

## References

**SAR Baseline (Development Estimate)**

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated May 18, 2009

**Approved APB**

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated September 15, 2014

## Mission and Description

Warfighter Information Network-Tactical Increment 3 (WIN-T 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 Inc 1 and WIN-T Inc 2 for fielding and support.

WIN-T Inc 3 develops the enhanced Net Centric Waveform (NCW) version 10.x for increased throughput capability for 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 WIN-T and other Army and DoD programs.

## Executive Summary

The program is greater than 90% expended. Per the May 30, 2014 ADM, the program will continue submitting SARs reflecting a software only program until the Army Acquisition Executive (AAE) authorizes deployment of both the Net-Centric Waveform (NCW) 10.x and Network Operations Build 4/5. A Deployment Decision Review with the AAE is planned for 4th Quarter FY 2016.

Throughout FY 2015, Network Operations (NetOps) and waveform software development and test was on-going.

The NetOps Build 4 Production Release Test Readiness Review was held on March 5, 2015. General Dynamics successfully met all required entrance criteria and was authorized to proceed to Level 3/Level 4 system integration testing. A NetOps Build 5 Point Release 15.1 technical interchange meeting was held with General Dynamics and Lockheed Martin on April 1, 2015. Test progress of NetOps Build 4 was also reviewed to assess the readiness for Formal Qualification Test (FQT) #2.

In May 11-12, 2015, WIN-T Inc 3 Program Management Office (PMO) led a technical interchange meeting for the NetOps Build 5 Point Release 15.2 with General Dynamics and Lockheed Martin. The PM reviewed test progress of Build 4 to assess the release schedule, testing priorities and key milestones leading up to the FQT #2 conducted in June 2015.

On June 30, 2015, the PMO completed the FQT #2 at the General Dynamics facility in Taunton, Massachusetts. All but one of the vignettes tested successfully. The vignette to test Private Key Infrastructure functionality failed due to test execution and not functionality. General Dynamics and the PMO successfully retested this vignette in August 2015. A second logistics software demonstration was completed in July 2015. The third logistics software demonstration and the FQT #3 were both successfully completed in December 2015.

The NCW 10.x developmental testing occurred October 12-14, 2015. The test demonstrated two performance requirements: 1) Throughput of 12 Megabits per second at the 2.4 meter satellite dishes and 2) interoperability with the previous NCW 8.x version. Test results demonstrated that NCW 10.x successfully passed the requirements and is ready for operational testing at Network Integration Evaluation 16.2.

On May 12, 2015, the PMO hosted Harris and U.S. Army Communications-Electronics Research, Development and Engineering Center (CERDEC) subject matter experts for the equipment integration of the Highband Networking Waveform (HNW) test bed at Aberdeen Proving Ground, Maryland and the installation of HNW 3.0 software on to radio platforms. This combined effort resulted in establishing a live HNW link in the PM WIN-T lab. On May 26, 2015, the PMO, with support from CERDEC Flight Activity (CFA), commenced safety flight-testing of the air tier antenna pod at Fort Eustis, Virginia. CFA found no issues during the testing. On July 16, 2015, the PM presented a briefing on the status and plan for the HNW 3.0 Demonstration, to the USD(AT&L) and other OSD organizations: no issues were identified. On October 7, 2015, the PM held an HNW test vehicle design review. The review confirmed the A/B-Kit vehicle integration plan was suitable with a few minor edits. A live node checkout was completed in January 2016, in preparation for the live full-scale HNW demo in 4th Quarter FY 2016.

The program received a decrement of \$6.185M in the FY 2016 PB. The PMO realigned priorities and resources so as to not impact completion of ADM directed requirements. The PM continues transition planning discussions with both the WIN-T Inc 1 and WIN-T Inc 2 PMOs to set the conditions for a Deployment Decision Review with the AAE in 4th Quarter FY 2016.

There are no significant software-related issues with this program at this time.

## Threshold Breaches

### APB Breaches

<b>Schedule</b>		<input type="checkbox"/>
<b>Performance</b>		<input type="checkbox"/>
<b>Cost</b>	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
<b>O&amp;S Cost</b>		<input type="checkbox"/>
<b>Unit Cost</b>	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

### Nunn-McCurdy Breaches

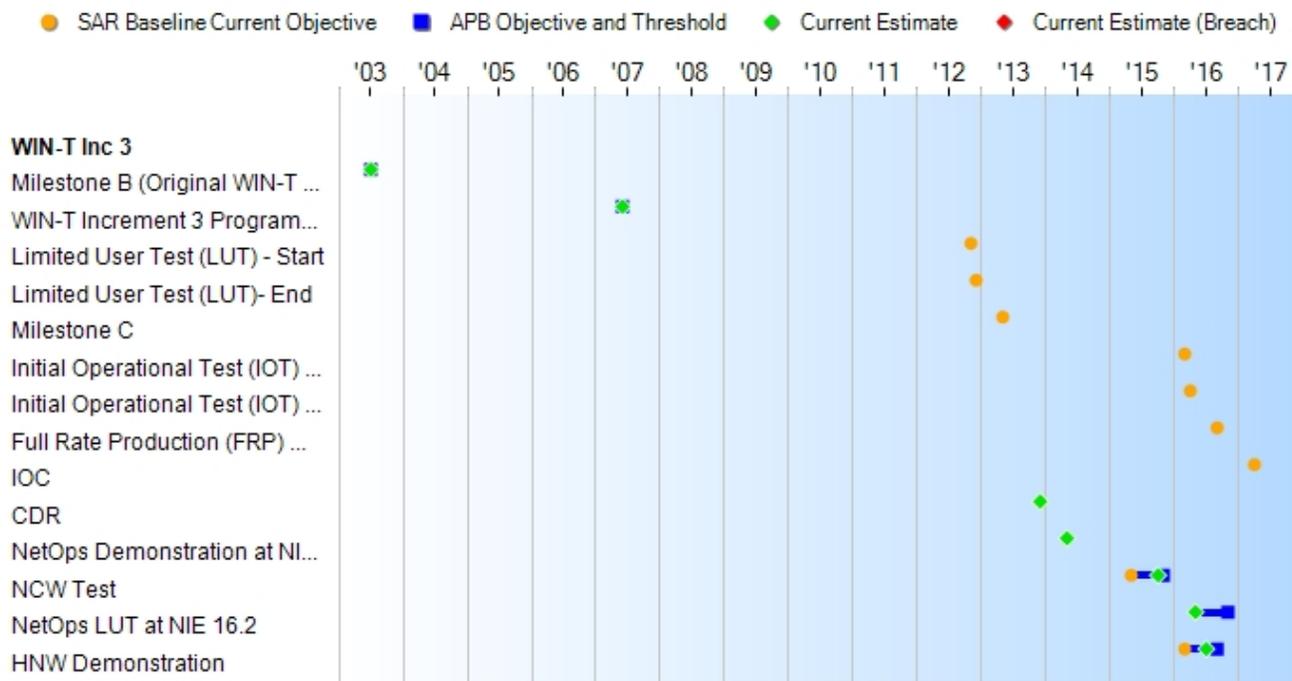
#### Current UCR Baseline

PAUC	None
APUC	None

#### Original UCR Baseline

PAUC	None
APUC	None

# Schedule



Schedule Events				
Events	SAR Baseline Development Estimate	Current APB Development Objective/Threshold		Current Estimate
Milestone B (Original WIN-T Program)	Jul 2003	Jul 2003	Jul 2003	Jul 2003
WIN-T Increment 3 Program Restructure Certification	Jun 2007	Jun 2007	Jun 2007	Jun 2007
Limited User Test (LUT) - Start	Nov 2012	N/A	N/A	N/A
Limited User Test (LUT)- End	Dec 2012	N/A	N/A	N/A
Milestone C	May 2013	N/A	N/A	N/A
Initial Operational Test (IOT) - Start	Mar 2016	N/A	N/A	N/A
Initial Operational Test (IOT) - End	Apr 2016	N/A	N/A	N/A
Full Rate Production (FRP) Decision Review	Sep 2016	N/A	N/A	N/A
IOC	Apr 2017	N/A	N/A	N/A
CDR	N/A	Dec 2013	Dec 2013	Dec 2013
NetOps Demonstration at NIE 14.2	N/A	May 2014	May 2014	May 2014
NCW Test	N/A	May 2015	Nov 2015	Oct 2015
NetOps LUT at NIE 16.2	N/A	May 2016	Nov 2016	May 2016
HNW Demonstration	N/A	Mar 2016	Sep 2016	Jul 2016

(Ch-1)

(Ch-2)

### Change Explanations

(Ch-1) The Current Estimate for the NCW Test changed from May 2015 to October 2015 to align with the development and resource schedule and is now completed.

(Ch-2) The Current Estimate for the HNW Demonstration changed from March 2016 to July 2016 to align with the current test range availability.

### Notes

The NetOps LUT at NIE 16.2 will be a FOT&E including both NetOps and NCW per the approved TEMP Appendix.

### Acronyms and Abbreviations

CDR - Critical Design Review

FOT&E - Follow-On Operational Test and Evaluation

HNW - Highband Networking Waveform

NCW - NetCentric Waveform

NetOps - Network Operations

NIE - Network Integration Evaluation

TEMP - Test and Evaluation Master Plan

## Performance

Performance Characteristics				
SAR Baseline Development Estimate	Current APB Development Objective/Threshold	Demonstrated Performance	Current Estimate	
<b>Net Ready</b>				
The system must fully support execution of all operational activities identified in the applicable joint and system integrated architectures and the system must satisfy the technical requirements for Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs: KIP 2 – Space to Terrestrial Interface, KIP 3 – JTF to Coalition, KIP 4 – JTF Component to JTF Headquarters, KIP 5 – STEP and Teleport, and KIP 7 – DISN Service Delivery Point 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an ATO by the DAA, and 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.	Enter and be managed in the network. Provide NetOps for the US Army Network to allow for management and control of transmissions. Four (4) separate enclaves (SIPRNET, NIPRNET, Top Secret, Mission Area defined) across colorless transmission path at any ATH Army location or echelon.	Enter and be managed in the network. Provide NetOps for the US Army Network to allow for management and control of transmissions. Two (2) separate enclaves (SIPRNET, NIPRNET) across WIN-T's colorless transmission path at a location in or outside the tactical operational geographic area.	FQT #1 successfully demonstrated all features developed for Build 4e. FQT #2 successfully demonstrated all features developed for Build 4. FQT #3 successfully demonstrated all features developed for Build 5.	Enter and be managed in the network. Provide NetOps for the US Army Network to allow for management and control of transmissions. Two (2) separate enclaves (SIPRNET, NIPRNET) across WIN-T's colorless transmission path at a location in or outside the tactical operational geographic area.
<b>Network Management: WIN-T will enable the G6/S6 to implement the commander's priorities by providing the capability and tools to plan, monitor, control, prioritize and visually display (e.g., current network status and connectivity) the various networking components for networks that connect secret and unclass users from a location at the Corps, Division, and Brigade in the AOR (Threshold) and for a location outside the AOR (Objective)</b>				
Outside of the AOR.	N/A	N/A	N/A	N/A
<b>Information Dissemination Category 1/Category 2</b>				
Critical survival information	N/A	N/A	N/A	N/A

(Category 1) delivery in less than or equal to 0.5 seconds and time sensitive information (Category 2) in less than 1 seconds.

### Force Protection

Armor required to protect personnel operating WIN-T vehicles employed at BCT, Fires, AVN, BfSB, and select force pooled assets operating within the Division battlespace. WIN-T components at Brigade and below require armor kits for protection of passengers and crew from small arms fire, mines, IED and other anti-vehicle/ personnel threats.

N/A

N/A

N/A

N/A

### Mobile Throughput: Traveling Speed (mph) with Bps throughout (ground speed)

Modular Force Ground vehicles: from 0 to 45 miles per hour with 4 Mbps per link available for user data. FCS BCT Ground Vehicles: from 0 to 72 kilometers per hour with 4 Mbps per link available for user data.

N/A

N/A

N/A

N/A

### Requirements Reference

Warfighter Information Network - Tactical CDD dated November 6, 2006 and revalidated on May 2, 2007 as revised on August 13, 2013

### Change Explanations

None

### Notes

The WIN-T CDD does not include the Sustainment KPP for Materiel Availability and the associated Key System Attributes.

## Acronyms and Abbreviations

AOR - Area of Responsibility  
ATH - At-the-Halt  
ATO - Approval to Operate  
AVN - Aviation  
BCT - Brigade Combat Team  
BfSB - Battlefield Surveillance Brigades  
DAA - Designated Approval Authority  
DISN - Defense Information Systems Network  
DISR - Department of Defense IT Standards Registry  
FCS - Future Combat Systems  
FQT - Formal Qualification Test  
G6 - Communications Staff Office, Division or Higher  
GIG - Global Information Grid  
IED - Improvised Explosive Devices  
IT - Information Technology  
JTF - Joint Task Force  
KIP - Key Interface Profile  
KSA - Key System Attributes  
Mbps - Megabits per second  
NCOW RM - Net Centric Operations and Warfare Reference Model  
NetOps - Network Operations  
NIPRNET - Non-Secure Internet Protocol Router Network  
S6 - Communications Staff Office, Brigade and Below  
SIPRNET - Secure Internet Protocol Network  
STEP - Standardized Tactical Entry Point  
TV - Technical View

## Track to Budget

### General Notes

Based on the approved program restructure, the Other Procurement, Army (OPA2) (BW7120) and Spares (OPA4) (BS9723) funding lines reflect zero funding in the FY 2016 PB and beyond.

### RDT&E

Appn	BA	PE
------	----	----

Army 2040 04 0603782A

Project	Name
---------	------

355 WIN-TACTICAL DEM/VAL (Sunk)

372 WIN-T INCREMENT 3 - FULL NETWORKING ON THE MOVE (Sunk)

**Notes:** Project 372 began in FY 2009 for WIN-T Inc 3 exclusively.

Army 2040 05 0605350A

Project	Name
---------	------

EE8 WIN-T INC 3 Full Networking (Sunk)

**Notes:** This Project EE8 was not a new start in FY 2015. This effort was funded under PE 0603782A Project 372 through FY 2014. It is funded under 0605350A Project EE8 in FY 2015 and FY 2016.

### Procurement

#### Notes

Per the May 30, 2014 ADM, the program was restructured as a software development program. All procurement quantities were removed during EMD. The parent Line Item for the WIN-T Inc 3 Procurement (BW7120) was BW7100. The parent Line Item for the WIN-T Inc 3 Spares (BW9723) was BS9100.

## Cost and Funding

### Cost Summary

Total Acquisition Cost							
Appropriation	BY 2009 \$M			BY 2009 \$M	TY \$M		
	SAR Baseline Development Estimate	Current APB Development Objective/Threshold	2002.9	Current Estimate	SAR Baseline Development Estimate	Current APB Development Objective	Current Estimate
RDT&E	2595.5	1820.8	2002.9	1815.0	2656.5	1856.8	1846.2
Procurement	13212.4	0.0	0.0	0.0	16156.7	0.0	0.0
Flyaway	--	--	--	0.0	--	--	0.0
Recurring	--	--	--	0.0	--	--	0.0
Non Recurring	--	--	--	0.0	--	--	0.0
Support	--	--	--	0.0	--	--	0.0
Other Support	--	--	--	0.0	--	--	0.0
Initial Spares	--	--	--	0.0	--	--	0.0
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	15807.9	1820.8	N/A	1815.0	18813.2	1856.8	1846.2

#### Current APB Cost Estimate Reference

Army Cost Position (ACP) dated July 29, 2014

#### Confidence Level

Confidence Level of cost estimate for current APB: 50%

The ACP, like all life-cycle cost estimates built by the Deputy Assistant Secretary of the Army for Cost and Economics (DASA-CE), was built upon a product-oriented work breakdown structure, based on historical actual cost information to the maximum extent possible and, most importantly, based on conservative assumptions that are consistent with actual demonstrated contractor and government performance for a series of acquisition programs in which the Department has been successful.

It is difficult to calculate mathematically the precise confidence levels associated with life-cycle cost estimates prepared for MDAPs. Based on the rigor in methods used in building estimates, the strong adherence to the collection and use of historical cost information, and the review of applied assumptions, we project that it is about equally likely that the estimate will prove too low or too high for execution of the program described.

#### Cost Notes

The costs for WIN-T Inc 3 reflect all sunk costs associated with the original WIN-T program as well as the costs to implement WIN-T Inc 3. Technology development prior to the FY 2007 Nunn-McCurdy certification that is now identified as WIN-T Inc 2 functionality appears as sunk costs in WIN-T Inc 3. WIN-T Inc 3 develops the technologies which will be inserted into WIN-T Inc 2. All funds required for development and testing are included in WIN-T Inc 3 and reflected in the costs in this report.

The Current Estimate reflects September 15, 2014 APB and FY 2017 PB funding. The program no longer reports cost

growth against PAUC and APUC due to the reduction in procurement quantities to zero.

Total Quantity			
Quantity	SAR Baseline Development Estimate	Current APB Development	Current Estimate
RDT&E	39	0	0
Procurement	3443	0	0
Total	3482	0	0

#### Quantity Notes

The unit of measure is a communications node which varies in capability depending upon the increment of WIN-T being executed. The WIN-T Inc 3 unit of measure is comprised of Tactical Communications Nodes, Points of Presence, and Soldier Network Extensions. The sum of these three items equates to the total number of communications nodes to be procured for WIN-T Inc 3. Procurement quantities have been reduced to zero to reflect the May 30, 2014 ADM direction.

## Cost and Funding

### Funding Summary

Appropriation Summary									
FY 2017 President's Budget / December 2015 SAR (TY\$ M)									
Appropriation	Prior	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
RDT&E	1812.7	33.5	0.0	0.0	0.0	0.0	0.0	0.0	1846.2
Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2017 Total	1812.7	33.5	0.0	0.0	0.0	0.0	0.0	0.0	1846.2
PB 2016 Total	1817.0	39.7	0.0	0.0	0.0	0.0	0.0	0.0	1856.7
Delta	-4.3	-6.2	0.0	0.0	0.0	0.0	0.0	0.0	-10.5

Quantity Summary										
FY 2017 President's Budget / December 2015 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	0	0	0	0	0	0	0	0	0
PB 2017 Total	0	0	0	0	0	0	0	0	0	0
PB 2016 Total	0	0	0	0	0	0	0	0	0	0
Delta	0	0	0	0	0	0	0	0	0	0

## Cost and Funding

### Annual Funding By Appropriation

Annual Funding							
2040   RDT&E   Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2002	--	--	--	--	--	--	12.1
2003	--	--	--	--	--	--	48.8
2004	--	--	--	--	--	--	87.7
2005	--	--	--	--	--	--	95.1
2006	--	--	--	--	--	--	92.0
2007	--	--	--	--	--	--	119.3
2008	--	--	--	--	--	--	191.7
2009	--	--	--	--	--	--	300.8
2010	--	--	--	--	--	--	145.7
2011	--	--	--	--	--	--	167.3
2012	--	--	--	--	--	--	167.3
2013	--	--	--	--	--	--	158.8
2014	--	--	--	--	--	--	117.2
2015	--	--	--	--	--	--	108.9
2016	--	--	--	--	--	--	33.5
Subtotal	--	--	--	--	--	--	1846.2

Annual Funding 2040   RDT&E   Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	BY 2009 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2002	--	--	--	--	--	--	14.0
2003	--	--	--	--	--	--	55.2
2004	--	--	--	--	--	--	96.9
2005	--	--	--	--	--	--	102.2
2006	--	--	--	--	--	--	96.2
2007	--	--	--	--	--	--	121.8
2008	--	--	--	--	--	--	192.0
2009	--	--	--	--	--	--	297.5
2010	--	--	--	--	--	--	141.9
2011	--	--	--	--	--	--	159.9
2012	--	--	--	--	--	--	157.4
2013	--	--	--	--	--	--	146.9
2014	--	--	--	--	--	--	106.3
2015	--	--	--	--	--	--	97.2
2016	--	--	--	--	--	--	29.6
Subtotal	--	--	--	--	--	--	1815.0

## Low Rate Initial Production

There is no LRIP for this program.

## **Foreign Military Sales**

None

## **Nuclear Costs**

None

## Unit Cost

### Unit Cost Report

Item	BY 2009 \$M	BY 2009 \$M	% Change
	Current UCR Baseline (Sep 2014 APB)	Current Estimate (Dec 2015 SAR)	
<b>Program Acquisition Unit Cost</b>			
Cost	1820.8	1815.0	
Quantity	0	0	
Unit Cost	--	--	--
<b>Average Procurement Unit Cost</b>			
Cost	0.0	0.0	
Quantity	0	0	
Unit Cost	--	--	--

Item	BY 2009 \$M	BY 2009 \$M	% Change
	Original UCR Baseline (May 2009 APB)	Current Estimate (Dec 2015 SAR)	
<b>Program Acquisition Unit Cost</b>			
Cost	15807.9	1815.0	
Quantity	3482	0	
Unit Cost	4.540	--	--
<b>Average Procurement Unit Cost</b>			
Cost	13212.4	0.0	
Quantity	3443	0	
Unit Cost	3.837	--	--

**Unit Cost History**



Item	Date	BY 2009 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	May 2009	4.540	3.837	5.403	4.693
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Oct 2010	4.177	3.551	5.013	4.382
Current APB	Sep 2014	N/A	N/A	N/A	N/A
Prior Annual SAR	Dec 2014	N/A	N/A	N/A	N/A
Current Estimate	Dec 2015	N/A	N/A	N/A	N/A

**SAR Unit Cost History**

Current SAR Baseline to Current Estimate (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
5.403	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Current SAR Baseline to Current Estimate (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.693	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	Jul 2003	N/A	Jul 2003
Milestone C	N/A	May 2013	N/A	N/A
IOC	N/A	Apr 2017	N/A	N/A
Total Cost (TY \$M)	N/A	18813.2	N/A	1846.2
Total Quantity	N/A	3482	N/A	0
PAUC	N/A	5.403	N/A	N/A

## Cost Variance

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	2656.5	16156.7	--	18813.2
Previous Changes				
Economic	+7.5	+247.1	--	+254.6
Quantity	-141.9	-12821.9	--	-12963.8
Schedule	-14.0	-98.5	--	-112.5
Engineering	-761.3	+450.9	--	-310.4
Estimating	+109.9	+260.2	--	+370.1
Other	--	--	--	--
Support	--	-4194.5	--	-4194.5
Subtotal	-799.8	-16156.7	--	-16956.5
Current Changes				
Economic	-1.9	--	--	-1.9
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-8.6	--	--	-8.6
Other	--	--	--	--
Support	--	--	--	--
Subtotal	-10.5	--	--	-10.5
Total Changes	-810.3	-16156.7	--	-16967.0
CE - Cost Variance	1846.2	--	--	1846.2
CE - Cost & Funding	1846.2	--	--	1846.2

Summary BY 2009 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	2595.5	13212.4	--	15807.9
Previous Changes				
Economic	--	--	--	--
Quantity	-124.4	-10115.9	--	-10240.3
Schedule	-0.5	-394.3	--	-394.8
Engineering	-739.5	+378.5	--	-361.0
Estimating	+91.4	+143.3	--	+234.7
Other	--	--	--	--
Support	--	-3224.0	--	-3224.0
Subtotal	-773.0	-13212.4	--	-13985.4
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-7.5	--	--	-7.5
Other	--	--	--	--
Support	--	--	--	--
Subtotal	-7.5	--	--	-7.5
Total Changes	-780.5	-13212.4	--	-13992.9
CE - Cost Variance	1815.0	--	--	1815.0
CE - Cost & Funding	1815.0	--	--	1815.0

Previous Estimate: December 2014

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-1.9
Decrease due to fact of life Congressional adjustments. (Estimating)	-3.8	-4.3
Decrease due to fewer than expected Program Trouble Reports, more efficient senior staff allocated to Build 4, and the Cost Plus Incentive Fee contract type. (Estimating)	-5.5	-6.2
Adjustment for current and prior escalation. (Estimating)	+1.8	+1.9
RDT&E Subtotal	-7.5	-10.5

## Contracts

### Contract Identification

**Appropriation:** RDT&E  
**Contract Name:** Follow-On EMD  
**Contractor:** General Dynamics C4 Systems, Incorporated  
**Contractor Location:** 400 John Quincy Adams Road  
 Taunton, MA 02780  
**Contract Number:** W15P7T-14-D-0002  
**Contract Type:** Cost Plus Incentive Fee (CPIF), Indefinite Delivery Indefinite Quantity (IDIQ)  
**Award Date:** October 31, 2013  
**Definitization Date:** October 31, 2013

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
89.4	N/A	0	237.6	N/A	0	236.0	229.3

### Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to modification of task orders for continued Network Operations and Net Centric Waveform development and test.

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2015)	+17.5	-2.1
Previous Cumulative Variances	+13.6	-0.7
Net Change	+3.9	-1.4

### Cost and Schedule Variance Explanations

The favorable net change in the cost variance is due to fewer than expected Program Trouble Reports and more efficient senior staff allocated to Build 4.

The unfavorable net change in the schedule variance is due to complexities in operating environment software development. Critical path items remain on schedule.

## Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	0	0	0	--
Total Program Quantity Delivered	0	0	0	--

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	1846.2	Years Appropriated	15
Expended to Date	1813.8	Percent Years Appropriated	100.00%
Percent Expended	98.25%	Appropriated to Date	1846.2
Total Funding Years	15	Percent Appropriated	100.00%

The above data is current as of February 09, 2016.

The program is greater than 90% expended. Per the May 30, 2014 ADM the program will continue submitting SARs reflecting a software only program until the Army Acquisition Executive (AAE) authorizes deployment of both the Net-Centric Waveform 10.x and Network Operations Build 4/5. A Deployment Decision Review with the AAE is planned for 4th Quarter FY 2016.

Expenditures reflect only direct program funding.

## Operating and Support Cost

### Cost Estimate Details

Date of Estimate:	January 14, 2015
Source of Estimate:	POE
Quantity to Sustain:	0
Unit of Measure:	Node
Service Life per Unit:	0.00 Years
Fiscal Years in Service:	FY 2002 - FY 2016

A Node is defined as Tactical Communications Node, Point of Presence, and Soldier Network Extension Configuration Items.

### Sustainment Strategy

There is no longer a requirement for Sustainment on WIN-T Inc 3 due to the May 30, 2014 ADM direction to transfer fielding requirements to WIN-T Inc 2.

### Antecedent Information

No Antecedent

Cost Element	Annual O&S Costs BY2009 \$K	
	WIN-T Inc 3 Average Annual Cost Per Node	No Antecedent (Antecedent) N/A
Unit-Level Manpower	0.000	0.000
Unit Operations	0.000	0.000
Maintenance	0.000	0.000
Sustaining Support	0.000	0.000
Continuing System Improvements	0.000	0.000
Indirect Support	0.000	0.000
Other	0.000	0.000
Total	--	--

Total O&S requirement is \$3.3M which consists only of Military Personnel costs from FY 2002 to FY 2016. Ordinarily, these costs would appear in the Sustaining Support Cost Element. However, with the removal of the Nodes there is no longer a unitized cost.

Item	Total O&S Cost \$M			
	WIN-T Inc 3			No Antecedent (Antecedent)
	Current Development APB Objective/Threshold		Current Estimate	
Base Year	3.3	3.6	3.3	N/A
Then Year	3.5	N/A	3.5	0.0

Total O&S requirement is \$3.3M which consists only of Military Personnel supporting the program office from FY 2002 to FY 2016.

O&S Cost Variance		
Category	BY 2009 \$M	Change Explanations
Prior SAR Total O&S Estimates - Dec 2014 SAR	3.3	
Programmatic/Planning Factors	0.0	
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	
Other	0.0	
Total Changes	0.0	
Current Estimate	3.3	

#### Disposal Estimate Details

**Date of Estimate:** January 14, 2015  
**Source of Estimate:** POE  
**Disposal/Demilitarization Total Cost (BY 2009 \$M):** Total costs for disposal of all Node are 0.0

There are no disposal/demilitarization costs associated with this program.