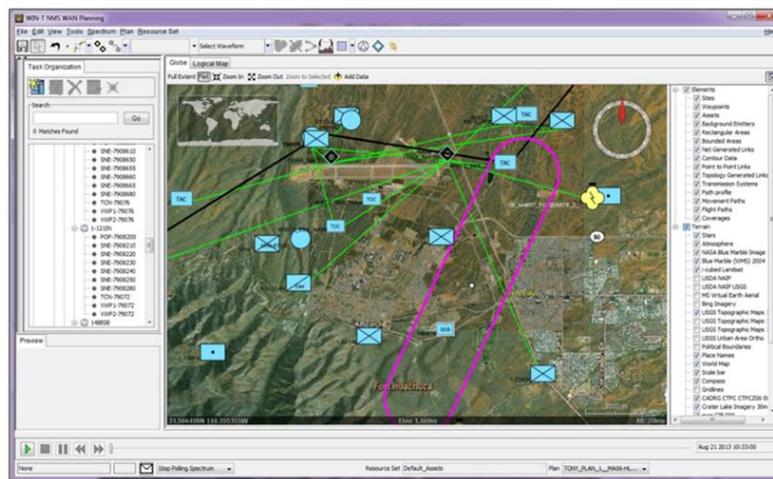




Selected Acquisition Report (SAR)

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 2016 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

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Date

Assigned: September 29, 2011

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 radio programs.

Executive Summary

On May 6, 2014 the PM WIN-T briefed the DAE on the proposed revised WIN-T Inc 3 program strategy. The DAE approved the requested strategy which includes executing a program restructure with remaining efforts limited to: 1) software development of Network Operations (NetOps) Build 4/5; 2) software development of the Net Centric Waveform (NCW) 10.x; and 3) software development and demonstration of Highband Networking Waveform (HNW) 3.0. The DAE formally notified Congress of the program restructure, highlighting the remaining efforts with planned completion by the end of FY 2016 and the corresponding ADM was signed on May 30, 2014. The ADM directed the Army to: 1) update the Army Cost Position (ACP) to reflect the restructure; 2) submit for DAE approval an updated APB with the revised ACP, end item quantities, schedule and performance parameters; 3) submit for Director, Operational, Test, and Evaluation and Deputy Assistant Secretary of Defense, Developmental Test and Evaluation approval an updated appendix to the WIN-T Inc 2 Test and Evaluation Master Plan (TEMP) that describes the test and evaluation of the NCW 10.x and NetOps Build 4/5 capabilities; 4) continue submitting SARs reflecting a software only program until the Army Acquisition Executive has authorized deployment of both the NCW 10.x and NetOps Build 4/5. The ACP, APB and TEMP appendix are complete. The procurement quantities were reduced from 699 to zero to reflect ADM direction. The Army will plan for increasing procurement quantities of WIN-T Inc 2 configuration items to complete WIN-T capability set fielding requirements previously slated for WIN-T Inc 3 hardware items.

Throughout FY 2014, program development was on-going. The NetOps first Field Qualification Test (FQT) #1 was completed on December 19, 2014. NetOps software development is on-going. Another FQT is planned for 3rd Quarter FY 2015. NCW 10.x verification testing was completed in 4th Quarter FY 2014. The HNW 3.0 field FQT was completed on November 6, 2014. Development of the HNW 3.0 waveform is now complete. A final HNW Demonstration is planned for 3rd Quarter FY 2016, prior to entering the HNW software into the Department of Defense Waveform Repository. On August 27, 2014 the Army Contracting Center awarded the WIN-T Inc 3 Task Order 1 modification for extension and ceiling increase. This was signed in accordance with the ADM of May 30, 2014. This contract will complete the software development and testing of NetOps Build 4 and will continue software development and testing of NetOps Build 5. On December 12, 2014 the Army Contracting Center awarded the WIN-T Inc 3 Network Centric Waveform Task Order. This was signed in accordance with the ADM of May 30, 2014. This task order will support integration and testing of the waveform with the WIN-T network.

A Functional Capabilities Board held on June 5, 2014 approved reductions of the KPP requirements to align with the ADM of May 30, 2014. The Director of Force Structure Resources and Assessments of the Joint Chiefs of Staff (J8) approved and recommended that the Joint Capabilities Board endorse the program restructure and KPP changes via Joint Requirements Oversight Council Memorandum (JROCM). Approval via JROCM 082-13 was received August 8, 2014.

The Defense Contract Management Agency (DCMA) performed a Compliance Review of the General Dynamics (GD) Earned Value Management System from April 28 to May 7, 2014. On June 19, 2014 GD was notified of deficiencies via an initial determination notification. GD provided a response to include actions taken and has closed all discrepancies. DCMA completed its review and provided a determination of acceptance on August 12, 2014.

The current funding is sufficient to complete program activities as directed by the ADM of May 30, 2014.

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

Threshold Breaches

APB Breaches

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

Nunn-McCurdy Breaches

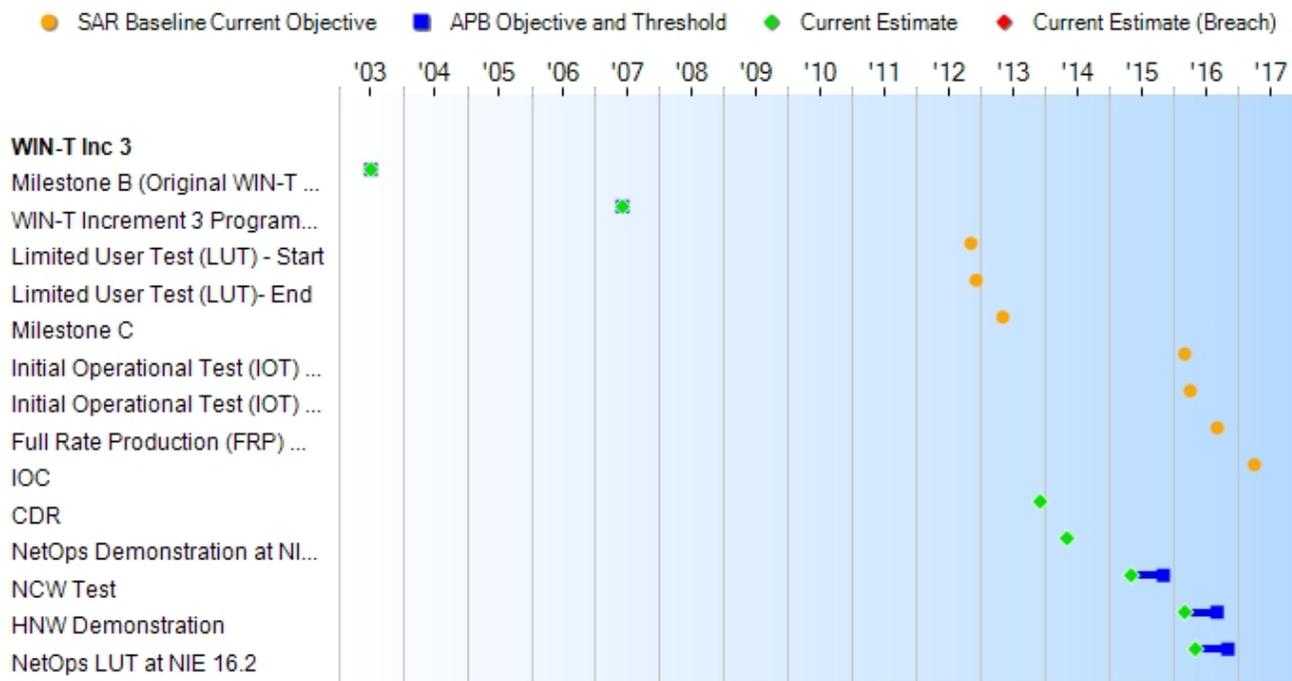
Current UCR Baseline

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	(Ch-1)
Limited User Test (LUT)- End	Dec 2012	N/A	N/A	N/A	(Ch-1)
Milestone C	May 2013	N/A	N/A	N/A	(Ch-1)
Initial Operational Test (IOT) - Start	Mar 2016	N/A	N/A	N/A	(Ch-1)
Initial Operational Test (IOT) - End	Apr 2016	N/A	N/A	N/A	(Ch-1)
Full Rate Production (FRP) Decision Review	Sep 2016	N/A	N/A	N/A	(Ch-1)
IOC	Apr 2017	N/A	N/A	N/A	(Ch-1)
CDR	N/A	Dec 2013	Dec 2013	Dec 2013	(Ch-2)
NetOps Demonstration at NIE 14.2	N/A	May 2014	May 2014	May 2014	(Ch-2)
NCW Test	N/A	May 2015	Nov 2015	May 2015	(Ch-2)
HNW Demonstration	N/A	Mar 2016	Sep 2016	Mar 2016	(Ch-2)
NetOps LUT at NIE 16.2	N/A	May 2016	Nov 2016	May 2016	(Ch-2)

Change Explanations

(Ch-1) The following current estimates changed due to direction of the May 30, 2014 ADM and the corresponding September 15, 2014 APB: LUT start changed from May 2016 to N/A, LUT end changed from May 2016 to N/A, Milestone C changed from March 2017 to N/A, IOT start changed from November 2018 to N/A, IOT end changed from December 2018 to N/A, FRP Decision Review changed from June 2019 to N/A, IOC changed from February 2020 to N/A.

(Ch-2) The following events were added per the September 15, 2014 approved APB: CDR was completed in December 2013, NetOps Demonstration at NIE 14.2 was completed in May 2014, NCW Test is scheduled for May 2015, HNW Demonstration is scheduled for March 2016, and NetOps LUT at NIE 16.2 is scheduled for May 2016.

Notes

The NetOps LUT at NIE 16.2 will be a follow-on operational test including both NetOps and NCW per the approved TEMP Appendix.

Acronyms and Abbreviations

CDR - Critical Design Review
HNW - Highband Networking Waveform
IOT - Initial Operational Test
LUT - Limited User Test
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		
Net Ready					
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.	TBD	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.	(Ch-1)
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)					
Outside of the AOR.	N/A	N/A	N/A	N/A	(Ch-1)
Information Dissemination Category 1/Category 2					
Critical survival information	N/A	N/A	N/A	N/A	(Ch-1)

(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	(Ch-1)
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	(Ch-1)

Requirements Reference

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

Change Explanations

(Ch-1) Performance parameters reflect the revised program as approved in the APB of September 15, 2014.

Notes

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

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
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 (0) funding in the FY 2016 PB.

RDT&E

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

Army 2040 04 0603782A

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

355 WIN-TACTICAL DEM/VAL (Shared) (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

Notes: This Project EE8 is not a new start in FY 2015. This effort is funded under PE 0603782A Project 372 through FY 2014. It is funded under 0605350A Project EE8 in the out years.

Procurement

Appn	BA	PE
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Army 2035 04 0310704A

Line Item	Name
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BS9723 WIN-T SPARES (Sunk)

Army 2035 02 0310704A

Line Item	Name
-----------	------

BW7120 INCREMENT 3 - FULL NETWORKING ON THE MOVE (Shared) (Sunk)

Notes

The parent Line Item for the WIN-T Inc 3 Procurement line (BW7120) is BW7100. The parent Line Item for the WIN-T Inc 3 Spares (BW9723) is 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		Current Estimate	SAR Baseline Development Estimate	Current APB Development Objective	Current Estimate
RDT&E	2595.5	1820.8	2002.9	1822.5	2656.5	1856.8	1856.7
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	1822.5	18813.2	1856.8	1856.7

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 Major Defense Acquisition Programs. 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 these technology inserts are included in WIN-T Inc 3 and reflected in the costs in this report.

The current estimate reflects the APB approved on September 15, 2014 and the FY 2016 PB funding. The program will no

longer report cost growth against PAUC and APUC due to the reduction in procurement quantities from 699 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 from 699 to zero (0) to reflect the ADM direction of May 30, 2014.

Cost and Funding

Funding Summary

Appropriation Summary									
FY 2016 President's Budget / December 2014 SAR (TY\$ M)									
Appropriation	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
RDT&E	1703.8	113.2	39.7	0.0	0.0	0.0	0.0	0.0	1856.7
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 2016 Total	1703.8	113.2	39.7	0.0	0.0	0.0	0.0	0.0	1856.7
PB 2015 Total	1703.8	113.2	39.7	70.7	534.3	551.6	475.9	226.3	3715.5
Delta	0.0	0.0	0.0	-70.7	-534.3	-551.6	-475.9	-226.3	-1858.8

Quantity Summary										
FY 2016 President's Budget / December 2014 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	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 2016 Total	0	0	0	0	0	0	0	0	0	0
PB 2015 Total	0	0	0	0	6	252	252	189	0	699
Delta	0	0	0	0	-6	-252	-252	-189	0	-699

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	--	--	--	--	--	--	113.2
2016	--	--	--	--	--	--	39.7
Subtotal	--	--	--	--	--	--	1856.7

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	--	--	--	--	--	--	159.8
2012	--	--	--	--	--	--	157.3
2013	--	--	--	--	--	--	146.7
2014	--	--	--	--	--	--	105.9
2015	--	--	--	--	--	--	100.3
2016	--	--	--	--	--	--	34.8
Subtotal	--	--	--	--	--	--	1822.5

Low Rate Initial Production

There is no LRIP for this program.

Foreign Military Sales

None

Nuclear Costs

None

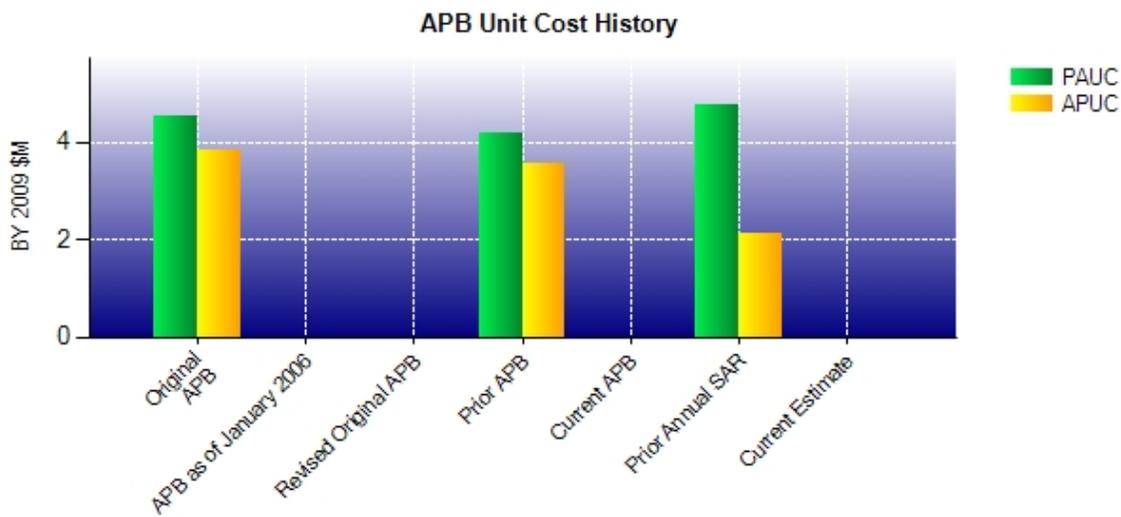
Unit Cost

Unit Cost Report

Item	BY 2009 \$M	BY 2009 \$M	% Change
	Current UCR Baseline (Sep 2014 APB)	Current Estimate (Dec 2014 SAR)	
Program Acquisition Unit Cost			
Cost	1820.8	1822.5	
Quantity	0	0	
Item	--	--	--
Average Procurement Unit Cost			
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 2014 SAR)	
Program Acquisition Unit Cost			
Cost	15807.9	1822.5	
Quantity	3482	0	
Unit Cost	4.540	--	--
Average Procurement Unit Cost			
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 2013	4.758	2.142	5.315	2.646
Current Estimate	Dec 2014	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	1856.7
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	+9.7	+272.3	--	+282.0
Quantity	-141.9	-9605.7	--	-9747.6
Schedule	-14.0	+207.7	--	+193.7
Engineering	-761.3	-951.3	--	-1712.6
Estimating	+116.7	-549.2	--	-432.5
Other	--	--	--	--
Support	--	-3680.7	--	-3680.7
Subtotal	-790.8	-14306.9	--	-15097.7
Current Changes				
Economic	-2.2	-25.2	--	-27.4
Quantity	--	-3216.2	--	-3216.2
Schedule	--	-306.2	--	-306.2
Engineering	--	+1402.2	--	+1402.2
Estimating	-6.8	+809.4	--	+802.6
Other	--	--	--	--
Support	--	-513.8	--	-513.8
Subtotal	-9.0	-1849.8	--	-1858.8
Total Changes	-799.8	-16156.7	--	-16956.5
CE - Cost Variance	1856.7	--	--	1856.7
CE - Cost & Funding	1856.7	--	--	1856.7

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	-7458.7	--	-7583.1
Schedule	-0.5	-141.4	--	-141.9
Engineering	-739.5	-779.9	--	-1519.4
Estimating	+97.2	-525.3	--	-428.1
Other	--	--	--	--
Support	--	-2809.5	--	-2809.5
Subtotal	-767.2	-11714.8	--	-12482.0
Current Changes				
Economic	--	--	--	--
Quantity	--	-2657.2	--	-2657.2
Schedule	--	-252.9	--	-252.9
Engineering	--	+1158.4	--	+1158.4
Estimating	-5.8	+668.6	--	+662.8
Other	--	--	--	--
Support	--	-414.5	--	-414.5
Subtotal	-5.8	-1497.6	--	-1503.4
Total Changes	-773.0	-13212.4	--	-13985.4
CE - Cost Variance	1822.5	--	--	1822.5
CE - Cost & Funding	1822.5	--	--	1822.5

Previous Estimate: December 2013

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-2.2
Revised the Network Operations Operational Test estimate. (Estimating)	-7.1	-8.3
Adjustment for current and prior escalation. (Estimating)	+1.3	+1.5
RDT&E Subtotal	-5.8	-9.0

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-25.2
Quantity variance resulting from a decrease of 699 Nodes from 699 to zero due to the ADM direction to transfer all fielding requirements to WIN-T Inc 2. (Subtotal)	-1151.1	-1389.3
Quantity variance resulting from a decrease of 699 Nodes from 699 to zero due to the ADM direction to transfer all fielding requirements to WIN-T Inc 2. (Quantity)	(-2725.2)	(-3294.7)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(-252.9)	(-306.2)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)	(+1158.4)	(+1402.2)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+668.6)	(+809.4)
Additional quantity variance to account for non-Node Configuration Items. (Quantity)	+68.0	+78.5
Decrease in Fielding, New Equipment Training, and Hardware End of Life (Technology Refresh) resulting from 699 fewer Nodes procured. (Support) (QR)	-369.8	-457.9
Decrease in Initial Spares due to procurement of 699 fewer Nodes. (Support) (QR)	-44.7	-55.9
Procurement Subtotal	-1497.6	-1849.8

(QR) Quantity Related

Contracts

Contract Identification

Appropriation: RDT&E
Contract Name: Follow-On EMD
Contractor: General Dynamics C4 Systems, Incorporated
Contractor Location: 400 John Quincy Adams Rd
 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	156.5	N/A	0	120.5	119.7

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.

Contract Variance

Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2014)	+13.6	-0.7
Previous Cumulative Variances	+1.6	-0.1
Net Change	+12.0	-0.6

Cost and Schedule Variance Explanations

The favorable net change in the cost variance is due to a positive variance between planned and actual rates for 2014 and a skill mix change for engineering efforts resulting in program cost underrun.

The unfavorable net change in the schedule variance is due to the delay of the Functional Qualification Testing 1 start date from November 2014 to December 2014.

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	1856.7	Years Appropriated	14
Expended to Date	1697.2	Percent Years Appropriated	93.33%
Percent Expended	91.41%	Appropriated to Date	1817.0
Total Funding Years	15	Percent Appropriated	97.86%

The above data is current as of January 31, 2015.

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 authorizes deployment of both the Net-Centric Waveform 10.x and Network Operations Build 4/5.

Expenditures reflect only direct program funding. Expenditures to Date are less than depicted in the December 2013 SAR due to the removal of Overseas Contingency Operation funded efforts from the program.

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 (TCN), Point of Presence (PoP), and Soldier Network Extension (SNE) Configuration Items (CI).

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	N/A

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 2013 SAR	3206.0	
Programmatic/Planning Factors	-3202.7	Sustainment requirement removed due to ADM direction to transfer fielding requirements to WIN-T Inc 2.
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	-3202.7	
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.