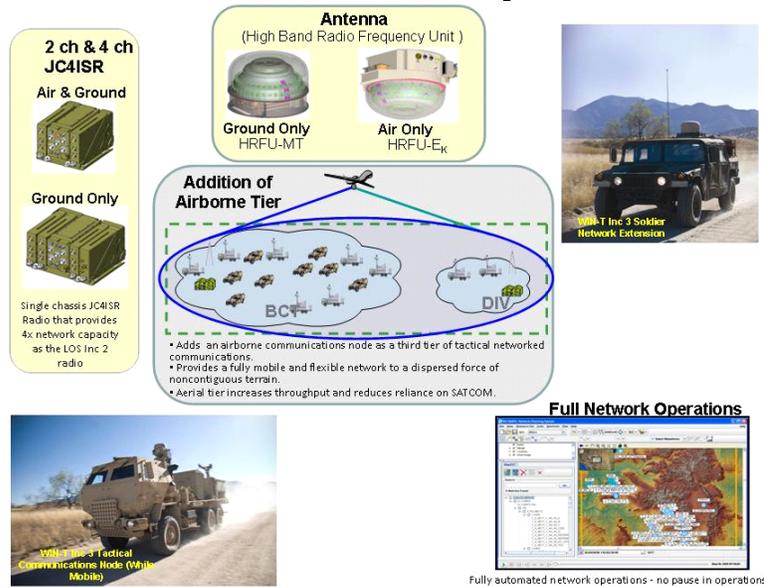




Selected Acquisition Report (SAR)

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

WIN-T Increment 3 – Full Networking On The Move



WIN-T INCREMENT 3

As of December 31, 2010

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Program Information

Designation And Nomenclature (Popular Name)

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

DoD Component

Army

Responsible Office

Responsible Office

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Date Assigned August 24, 2007

References

SAR Baseline (Development Estimate)

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

Approved APB

DAE Approved Acquisition Program Baseline (APB) dated October 22, 2010

Mission and Description

Warfighter Information Network-Tactical (WIN-T) is the implementation of the Army's strategy to achieve a world-class Joint expeditionary network enabled by information technologies that support the goals of the Army Campaign Plan and other Army/Joint mandates. WIN-T is a cornerstone tactical communications system supporting the implementation of the LandWarNet strategy during the 2007 to 2025 timeframe. The WIN-T program is establishing a single integrating framework creating a network of networks for the Army.

The WIN-T program focus is to design, develop, produce and field the Future Modular Force transport network, while leveraging mature technologies that can enhance the Current Modular Force to operate in an emerging noncontiguous environment. WIN-T will be developed and fielded in increments that will successively build upon one another.

The focus of this document is WIN-T Increment 3. Increment 3 is the Army's communication system for reliable, secure, and seamless video, data, imagery, and voice services that enables decisive combat actions. WIN-T Increment 3 is key to the Army's Network Modernization program. It will be focused on moving information in a manner that supports commanders, staffs, functional units, and capabilities - based on formations - all mobile, agile, lethal, sustainable, and deployable. Increment 3 will provide the Commander/user within the tactical area of responsibility a mobile infrastructure that passes relevant information effectively and efficiently for combined arms capabilities in all required terrain and environmental conditions. WIN-T is implementing the Global Information Grid (GIG) NetCentric Vision including Information Assurance and Network Centric Enterprise Services. In addition, WIN-T is a key component of the tactical GIG. WIN-T provides dynamic bandwidth and enables formations on-the-move (OTM). WIN-T Increment 3 develops the mature technologies which will be inserted into Increment 2. Increment 3 introduces the aerial tier to complete the three-tier objective architecture.

Executive Summary

Engineering and Manufacturing Development efforts are ongoing. In the past year, General Dynamics has continued development, integration and test of Increment 3 Configuration Items. Numerous component Preliminary Design Reviews (PDRs) and Critical Design Reviews (CDRs) have been successfully completed including: Hardware Networking Waveform v2.2 software, Multi Purpose Modem-1000 (MPM-1000), Highband Radio Frequency Unit-Extended Range/Multi-Purpose Kurtz band (HRFU-EK), and Extended Range/Multi-Purpose WIN-T Communications Payload (ER/MP WCP).

The original WIN-T Increment 3 Acquisition Program Baseline (APB) was approved by the Defense Acquisition Executive (DAE) on May 18, 2009. The Acquisition Decision Memorandum (ADM) of the same date noted known changes to the program including elimination of Future Combat Systems (FCS) Manned Ground Vehicles (MGVs), liquid cooled radios, and, subsequently, the termination of Class IV Unmanned Aerial Vehicles (UAV). The ADM directed these changes be addressed by: establishing an updated WIN-T Increment 3 Cost Analysis Requirements Document (CARD) to reflect a restructured program to align with the FY2010 President's Budget, completing an updated Army Cost Position (ACP) and updated Independent Cost Estimate (ICE), and submission of a revised APB. All of these documents were completed, culminating with the revised APB signed by the Defense Acquisition Executive (DAE) on October 22, 2010.

There are no significant software-related issues associated with the 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"/>
Unit Cost	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

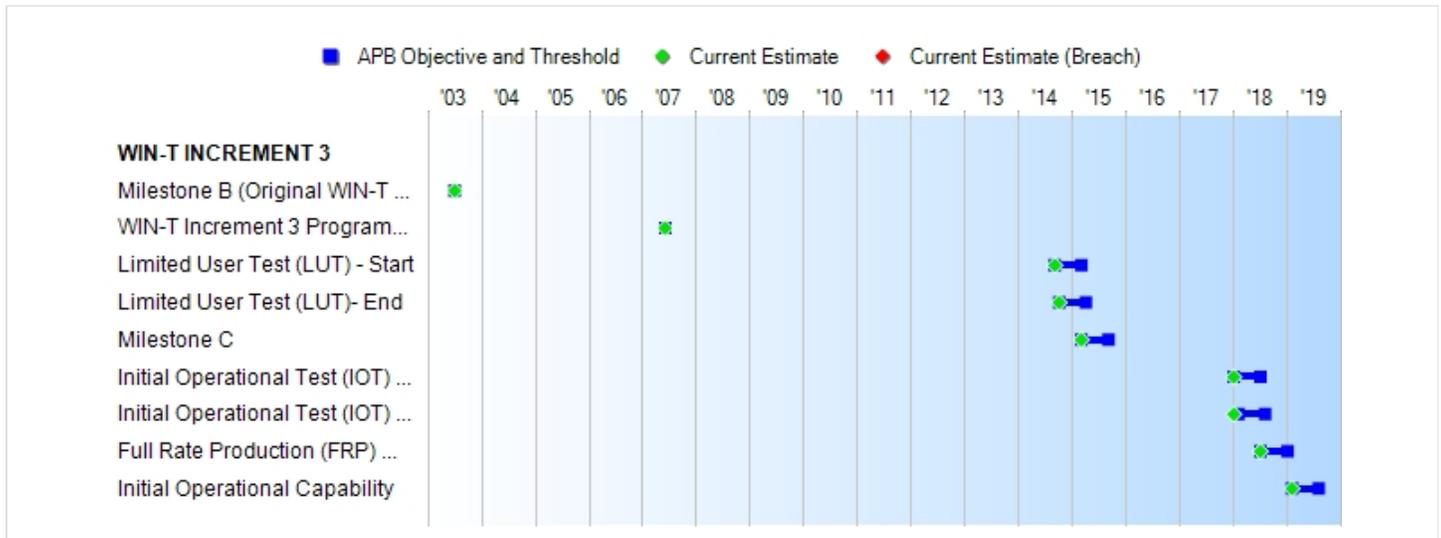
Nunn-McCurdy Breaches**Current UCR Baseline**

PAUC	None
APUC	None

Original UCR Baseline

PAUC	None
APUC	None

Schedule



Milestones	SAR Baseline Dev Est	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	SEP 2014	MAR 2015	SEP 2014	(Ch-1)
Limited User Test (LUT)- End	DEC 2012	OCT 2014	APR 2015	OCT 2014	(Ch-1)
Milestone C	MAY 2013	MAR 2015	SEP 2015	MAR 2015	(Ch-1)
Initial Operational Test (IOT) - Start	MAR 2016	JAN 2018	JUL 2018	JAN 2018	(Ch-1)
Initial Operational Test (IOT) - End	APR 2016	FEB 2018	AUG 2018	JAN 2018	(Ch-1)
Full Rate Production (FRP) Decision Review	SEP 2016	JUL 2018	JAN 2019	JUL 2018	(Ch-1)
Initial Operational Capability	APR 2017	FEB 2019	AUG 2019	FEB 2019	(Ch-1)

Change Explanations

(Ch-1) The schedule has been accelerated due to an Army-directed request to accelerate implementation of the aerial tier. This has impacted the schedule as follows:
 LUT Start has changed from November 2015 to September 2014.
 LUT End has changed from December 2015 to October 2014.
 Milestone C has changed from May 2016 to March 2015.
 IOT Start has changed from May 2018 to January 2018.
 IOT End has changed from June 2018 to January 2018.
 FRP has changed from December 2018 to July 2018.
 Initial Operational Capability has changed from June 2019 to February 2019.

Memo

The original WIN-T program underwent a Nunn-McCurdy certification process. The resulting Acquisition Decision Memorandum of June 5, 2007 restructured WIN-T into four increments in which WIN-T Increment 3 was designated "post Milestone B". The Milestone B for the original WIN-T program occurred in July 2003.

Performance

Characteristics	SAR Baseline Dev Est	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, KIP4 – JTF Component to JTF Headquarters, KIP 5 – STEP and Teleport,	The system must support Net-Centric military operations. The system must be able to enter and be managed in the network, and exchange data in a secure manner to enhance mission effectiveness. The system must continuously provide survivable, interoperable, secure, and operationally effective information exchanges to enable a Net-Centric military capability. The system must fully support execution of all operational activities identified in the applicable joint and system integrated	The system must support Net-Centric military operations. The system must be able to enter and be managed in the network, and exchange data in a secure manner to enhance mission effectiveness. The system must continuously provide survivable, interoperable, secure, and operationally effective information exchanges to enable a Net-Centric military capability. The system must fully support execution of joint critical operational activities identified in the applicable joint and system integrated	TBD	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 identified in the KIP declaration table, 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity,

	<p>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.</p>	<p>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 identified in the KIP declaration table, 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</p>	<p>architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs identified in the KIP declaration table, 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an IATO by the DAA, and 5) Operationally effective information exchanges; and mission critical performance and information</p>		<p>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.</p>
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		attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.	assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.		
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.	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 and internet-working components for networks that connect Secret and Unclass users from a location: Objective: Outside of the AOR.	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 and internet-working components for networks that connect Secret and Unclass users from a location: Threshold: At the Corps, Division and	TBD	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 and internet-working components for networks that connect Secret and Unclass users from a location. Objective: Outside of the AOR.

			Brigade in the AOR.		
Information Dissemination Category 1/Category 2	Critical survival information (Category 1) delivery in less than or equal to 0.5 sec. and time sensitive information (Category 2) in less than 1 sec.	WIN-T will provide a transport capability that enables battle command and situational awareness information to be sent/ delivered to ATH manned platforms: Objective: Critical survival information (Category 1) delivery in less than 0.5 seconds and time sensitive information (Category 2) in less than 1 seconds.	WIN-T will provide a transport capability that enables battle command and situational awareness information to be sent/ delivered to ATH manned platforms: Threshold: Critical survival information (Category 1) delivery in less than or equal to 5 seconds and time sensitive information (Category 2) in less than 8 seconds.	TBD	WIN-T will provide a transport capability that enables battle command and situational awareness information to be sent / delivered to At-the-Halt (ATH) manned platforms. Objective: Critical survival information (Category 1) delivery in less than or equal to 0.5 sec. and time sensitive information (Category 2) in less than 1 sec.
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	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	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	TBD	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.	and below require armor kits for protection of passengers and crew from small arms fire, mines, IED and other anti-vehicle/ personnel threats.	and below require armor kits for protection of passengers and crew from small arms fire, mines, IED and other anti-vehicle/ personnel threats.		and below require armor kits for protection of passengers and crew from small arms fire, mines, IED and other anti-vehicle / personnel threats.
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.	WIN-T will enable selected warfighters to conduct decisive operations throughout the battlespace while moving "cross-country" in a tactical formation utilizing satellite communications: Objective: Modular Force ground vehicles: from zero to 45 miles per hour with four Mbps per link available for user data. FCS BCT ground vehicles: from zero to 72 kilometers per hour with four Mbps per link	WIN-T will enable selected warfighters to conduct decisive operations throughout the battlespace while moving "cross-country" in a tactical formation utilizing satellite communications: Threshold: Modular Force ground vehicles: from zero to 25 miles per hour with 256 Kbps per link available for user data. FCS BCT ground vehicles: from zero to 45 kilometers per hour with 256 Kbps per link	TBD	WIN-T will enable selected warfighters to conduct decisive operations throughout the battlespace while moving "cross-country" in a tactical formation utilizing satellite communications. Objective: 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.

		available for user data.	available for user data.		
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Requirements Source: Capability Development Document (CDD) for Warfighter Information Network – Tactical (WIN-T), approved November 6, 2006 and revalidated by the Joint Requirements Oversight Council (JROC) in May 2007 in JROCM 128-07.

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
 Bps - Bits per second
 DAA - Designated Approval Authority
 DISN - Defense Information Systems Network
 DISR - Department of Defense IT Standards Registry
 FCS - Future Combat Systems
 GIG - Global Information Grid
 IATO - Interim Approval to Operate
 IED - Improvised Explosive Devices
 IT - Information Technology
 JTF - Joint Task Force
 Kbps - Kilobits per second
 KIP - Key Interface Profile
 Mbps - Megabits per second
 mph - Miles per hour
 NCOW - Net Centric Operations and Warfare
 RM - Reference Model
 sec - seconds
 STEP - Standardized Tactical Entry Point
 TV - Technical View

Change Explanations

None

Memo

The WIN-T CDD does not include the Sustainment KPP for Materiel Availability and the associated Key System Attributes (KSAs). Per CJCSI 3170.01G dated March 1, 2009, it will not be applied as a mandatory KPP in the WIN-T Increment 3 Capabilities Production Document (CPD) for Milestone C because it was not included in the CDD. WIN-T Increment 3 will identify the associated sustainment metrics for the system based on expected performance of the system that will go into production.

When the FCS program was terminated, the requirement as stated in the Mobile Throughput KPP for FCS ground vehicles ceased to exist. The reference is included in this section to show consistency with the approved CDD. WIN-T Increment 3 will provide B-Kits to ground vehicles in order to support Key Performance Parameter 5 (KPP 5): Mobile Throughput.

Track To Budget

General Memo

The FY 2014 and FY 2015 procurement funding does not match the FY 2012 President's Budget because additional funds were put into the Increment 3 OPA line, but are not tracked to the Increment 3 program. These funds will be moved to other Army procurement programs in FY 2013-2017.

The parent line for the Increment 3 procurement funding line (BW7120) is BW7100.

RDT&E

APPN 2040	BA 04	PE 0603782A	(Army)
	Project 355	WIN-TACTICAL DEM/VAL	(Shared) (Sunk)
	Sunk in 2008. Prior to FY2009 WIN-T Increment 3 shared Project 355 with WIN-T Increment 2.		
	Project 372	WIN-T INCREMENT 3 - FULL NETWORKING ON THE MOVE	
	Project 372 began in FY2009 for WIN-T Increment 3 exclusively.		

Procurement

APPN 2035	BA 02		(Army)
	ICN BW7120	INCREMENT 3 - FULL NETWORKING ON THE MOVE	(Shared)

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

Appropriation	BY2009 \$M			BY2009 \$M	TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate	SAR Baseline Dev Est	Current APB Development Objective	Current Estimate
RDT&E	2595.5	2146.3	2360.9	2146.3	2656.5	2194.3	2196.4
Procurement	13212.4	11250.7	12370.8	11250.7	16156.7	13881.7	13859.5
Flyaway	9988.4	--	--	7972.4	12068.9	--	9710.5
Recurring	9967.0	--	--	7950.5	12044.6	--	9685.0
Non Recurring	21.4	--	--	21.9	24.3	--	25.5
Support	3224.0	--	--	3278.3	4087.8	--	4149.0
Other Support	2555.3	--	--	2702.9	3248.6	--	3422.6
Initial Spares	668.7	--	--	575.4	839.2	--	726.4
MILCON	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
Total	15807.9	13397.0	N/A	13397.0	18813.2	16076.0	16055.9

The original WIN-T program underwent a Nunn-McCurdy certification process as documented in the December 2006 Selected Acquisition Report (SAR). The resulting Acquisition Decision Memorandum of June 5, 2007 restructured the WIN-T program into four increments. The costs for WIN-T Increment 3 reflect all sunk costs associated with the original WIN-T program as well as the costs to implement this individual increment.

Technology development prior to Nunn-McCurdy certification that is now identified as WIN-T Increment 2 functionality appears as sunk costs in WIN-T Increment 3. WIN-T Increment 3 develops the mature technologies which will be inserted into WIN-T Increment 2. All of the funds required for these technology inserts are included in WIN-T Increment 3 and reflected in the costs in this report.

The WIN-T Increment 3 cost is estimated and funded to the Cost Analysis and Program Evaluation Independent Cost Estimate (CAPE ICE) at the 50 percent confidence level. The program is considered a low risk program at this point in its acquisition life cycle. Following the Milestone C review, the program will enter Low Rate Initial Production using a firm fixed price indefinite delivery/indefinite quantity contract with prices that are effective for the first three years of production. In addition, many of the components of the WIN-T system are commercial off the shelf items which will assist in keeping the prices of the items stable even after this initial contract period. The variability of funding and thus changes in procurement quantity is the only identifiable risk.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	39	39	39
Procurement	3443	3168	3168
Total	3482	3207	3207

The unit of measure is a communications node which varies in capability depending upon the increment of WIN-T being executed. The WIN-T Increment 3 unit of measure is comprised of Tactical Communications Nodes (TCNs), Points of Presence (PoPs) and Soldier Network Extensions (SNEs). The sum of these three items equates to the total number of communications nodes to be procured for WIN-T Increment 3.

Cost and Funding**Funding Summary**

Appropriation and Quantity Summary
FY2012 President's Budget / December 2010 SAR (TY\$ M)

Appropriation	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
RDT&E	1093.2	173.5	287.8	275.2	168.9	71.7	20.9	105.2	2196.4
Procurement	0.0	0.0	0.0	0.0	0.0	232.8	406.7	13220.0	13859.5
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 2012 Total	1093.2	173.5	287.8	275.2	168.9	304.5	427.6	13325.2	16055.9
PB 2011 Total	1094.1	173.5	203.5	247.1	557.6	606.1	708.5	12373.3	15963.7
Delta	-0.9	0.0	84.3	28.1	-388.7	-301.6	-280.9	951.9	92.2

Quantity	Undistributed	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
Development	39	0	0	0	0	0	0	0	0	39
Production	0	0	0	0	0	0	0	6	90	3072 3168
PB 2012 Total	39	0	0	0	0	0	0	6	90	3072 3207
PB 2011 Total	39	0	0	6	6	84	95	148	2829	3207
Delta	0	0	0	-6	-6	-84	-89	-58	243	0

Cost and Funding**Annual Funding By Appropriation****Annual Funding TY\$****2040 | RDT&E | Research, Development, Test, and Evaluation, Army**

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
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	--	--	--	--	--	--	173.5
2012	--	--	--	--	--	--	287.8
2013	--	--	--	--	--	--	275.2
2014	--	--	--	--	--	--	168.9
2015	--	--	--	--	--	--	71.7
2016	--	--	--	--	--	--	20.9
2017	--	--	--	--	--	--	71.4
2018	--	--	--	--	--	--	33.8
Subtotal	39	--	--	--	--	--	2196.4

Annual Funding BY\$**2040 | RDT&E | Research, Development, Test, and Evaluation, Army**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2009 \$M	Non End Item Recurring Flyaway BY 2009 \$M	Non Recurring Flyaway BY 2009 \$M	Total Flyaway BY 2009 \$M	Total Support BY 2009 \$M	Total Program BY 2009 \$M
2002	--	--	--	--	--	--	14.0
2003	--	--	--	--	--	--	55.2
2004	--	--	--	--	--	--	96.9
2005	--	--	--	--	--	--	102.2
2006	--	--	--	--	--	--	96.2
2007	--	--	--	--	--	--	121.8
2008	--	--	--	--	--	--	192.1
2009	--	--	--	--	--	--	298.0
2010	--	--	--	--	--	--	142.7
2011	--	--	--	--	--	--	167.3
2012	--	--	--	--	--	--	273.2
2013	--	--	--	--	--	--	257.0
2014	--	--	--	--	--	--	155.1
2015	--	--	--	--	--	--	64.7
2016	--	--	--	--	--	--	18.6
2017	--	--	--	--	--	--	62.3
2018	--	--	--	--	--	--	29.0
Subtotal	39	--	--	--	--	--	2146.3

Annual Funding TY\$

2035 | Procurement | Other Procurement, Army

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
2015	6	224.7	--	6.0	230.7	2.1	232.8
2016	90	382.3	--	--	382.3	24.4	406.7
2017	94	468.2	--	--	468.2	86.4	554.6
2018	434	1225.7	--	17.3	1243.0	167.4	1410.4
2019	360	1243.3	--	2.2	1245.5	211.1	1456.6
2020	440	1297.9	--	--	1297.9	415.9	1713.8
2021	612	1449.9	--	--	1449.9	456.7	1906.6
2022	373	1124.7	--	--	1124.7	479.5	1604.2
2023	418	1151.7	--	--	1151.7	534.1	1685.8
2024	341	1116.6	--	--	1116.6	511.5	1628.1
2025	--	--	--	--	--	634.0	634.0
2026	--	--	--	--	--	625.9	625.9
Subtotal	3168	9685.0	--	25.5	9710.5	4149.0	13859.5

Annual Funding BY\$**2035 | Procurement | Other Procurement, Army**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2009 \$M	Non End Item Recurring Flyaway BY 2009 \$M	Non Recurring Flyaway BY 2009 \$M	Total Flyaway BY 2009 \$M	Total Support BY 2009 \$M	Total Program BY 2009 \$M
2015	6	201.9	--	5.3	207.2	1.9	209.1
2016	90	337.7	--	--	337.7	21.6	359.3
2017	94	406.7	--	--	406.7	75.0	481.7
2018	434	1046.9	--	14.8	1061.7	142.9	1204.6
2019	360	1044.1	--	1.8	1045.9	177.4	1223.3
2020	440	1071.8	--	--	1071.8	343.4	1415.2
2021	612	1177.3	--	--	1177.3	370.8	1548.1
2022	373	898.0	--	--	898.0	382.8	1280.8
2023	418	904.2	--	--	904.2	419.3	1323.5
2024	341	861.9	--	--	861.9	394.9	1256.8
2025	--	--	--	--	--	481.2	481.2
2026	--	--	--	--	--	467.1	467.1
Subtotal	3168	7950.5	--	21.9	7972.4	3278.3	11250.7

Low Rate Initial Production

WIN-T Increment 3 will have a three year LRIP phase with quantities totalling 190 communications nodes. The LRIP units will be procured over three years. The basic LRIP contract award and first option will be used to procure sufficient assets to support Production Qualification Testing (PQT) and Initial Operational Test (IOT). The second option will be used to establish an initial production base for the system to support production ramp-up and fielding to permit an orderly increase to the production rate for the system.

Foreign Military Sales

There are no Foreign Military Sales data to display.

Nuclear Cost

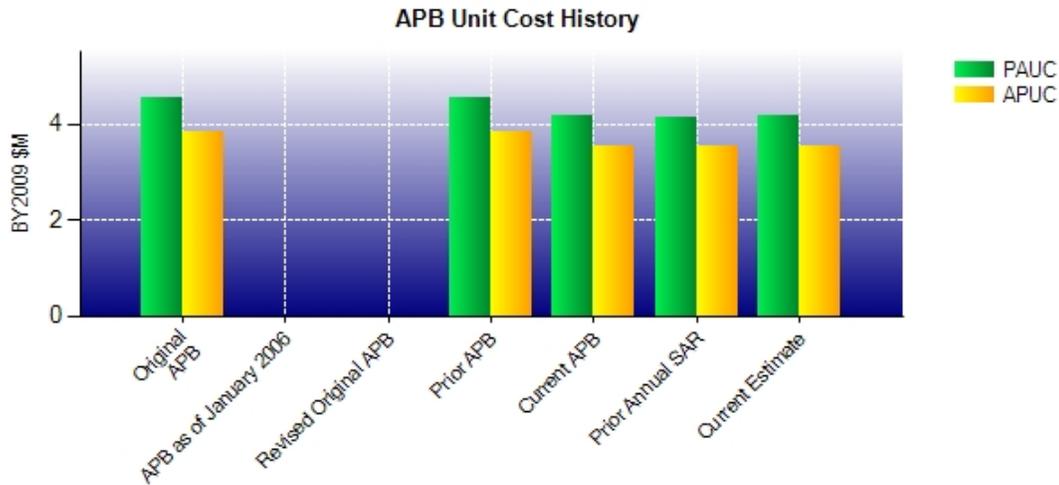
There are no Nuclear Cost data to display.

Unit Cost**Unit Cost Report**

	BY2009 \$M	BY2009 \$M	
Unit Cost	Current UCR Baseline (OCT 2010 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	13397.0	13397.0	
Quantity	3207	3207	
Unit Cost	4.177	4.177	0.00
Average Procurement Unit Cost (APUC)			
Cost	11250.7	11250.7	
Quantity	3168	3168	
Unit Cost	3.551	3.551	0.00

	BY2009 \$M	BY2009 \$M	
Unit Cost	Original UCR Baseline (MAY 2009 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	15807.9	13397.0	
Quantity	3482	3207	
Unit Cost	4.540	4.177	-8.00
Average Procurement Unit Cost (APUC)			
Cost	13212.4	11250.7	
Quantity	3443	3168	
Unit Cost	3.837	3.551	-7.45

Unit Cost History



	Date	BY2009 \$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	MAY 2009	4.540	3.837	5.403	4.693
Current APB	OCT 2010	4.177	3.551	5.013	4.382
Prior Annual SAR	DEC 2009	4.142	3.531	4.978	4.357
Current Estimate	DEC 2010	4.177	3.551	5.007	4.375

SAR Unit Cost History

Current SAR Baseline to Current Estimate (TY \$M)

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
5.403	-0.077	0.226	0.104	-0.641	-0.049	0.000	0.041	-0.396	5.007

Current SAR Baseline to Current Estimate (TY \$M)

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.693	-0.075	0.167	0.110	-0.494	-0.067	0.000	0.041	-0.318	4.375

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	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	MAR 2015
IOC	N/A	APR 2017	N/A	FEB 2019
Total Cost (TY \$M)	N/A	18813.2	N/A	16055.9
Total Quantity	N/A	3482	N/A	3207
Prog. Acq. Unit Cost (PAUC)	N/A	5.403	N/A	5.007

Cost Variance**Cost Variance Summary**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	2656.5	16156.7	--	18813.2
Previous Changes				
Economic	-7.9	-211.5	--	-219.4
Quantity	--	-761.0	--	-761.0
Schedule	--	+338.1	--	+338.1
Engineering	-491.2	-1565.5	--	-2056.7
Estimating	+1.8	-271.6	--	-269.8
Other	--	--	--	--
Support	--	+119.3	--	+119.3
Subtotal	-497.3	-2352.2	--	-2849.5
Current Changes				
Economic	-1.9	-25.8	--	-27.7
Quantity	--	--	--	--
Schedule	-14.9	+10.9	--	-4.0
Engineering	--	--	--	--
Estimating	+54.0	+59.3	--	+113.3
Other	--	--	--	--
Support	--	+10.6	--	+10.6
Subtotal	+37.2	+55.0	--	+92.2
Total Changes	-460.1	-2297.2	--	-2757.3
CE - Cost Variance	2196.4	13859.5	--	16055.9
CE - Cost & Funding	2196.4	13859.5	--	16055.9

Summary Base Year 2009 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Dev Est)	2595.5	13212.4	--	15807.9
Previous Changes				
Economic	--	--	--	--
Quantity	--	-596.5	--	-596.5
Schedule	--	--	--	--
Engineering	-499.0	-1242.2	--	-1741.2
Estimating	+1.8	-221.4	--	-219.6
Other	--	--	--	--
Support	--	+34.2	--	+34.2
Subtotal	-497.2	-2025.9	--	-2523.1
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	-0.5	--	--	-0.5
Engineering	--	--	--	--
Estimating	+48.5	+44.1	--	+92.6
Other	--	--	--	--
Support	--	+20.1	--	+20.1
Subtotal	+48.0	+64.2	--	+112.2
Total Changes	-449.2	-1961.7	--	-2410.9
CE - Cost Variance	2146.3	11250.7	--	13397.0
CE - Cost & Funding	2146.3	11250.7	--	13397.0

Previous Estimate: December 2009

RDT&E	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	-1.9
Shortened Development schedule due to acceleration of the Air Tier. (Schedule)	-0.5	-14.9
Adjustment for current and prior escalation. (Estimating)	+0.3	+0.3
Increased Government test costs based on refinement of estimate. (Estimating)	+43.7	+48.5
Additional costs in FY 2018 for Government Program Management support of Initial Operational Test (IOT). (Estimating)	+4.5	+5.2
RDT&E Subtotal	+48.0	+37.2

Procurement	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	-25.8
Compression of the procurement schedule by 4 years due to delaying the start date from FY 2012 to FY 2015 and shortening the end date from FY 2027 to FY 2026. (Schedule)	0.0	+10.9
Increased warranty cost factor based on experience from Increment 2 Low Rate Initial Production (LRIP) negotiations. (Estimating)	+169.7	+208.3
Re-phased 39 Joint Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (JC4ISR) radios and antennas to FY 2015 and FY 2016 in support of enhanced interoperability with Inc 2. (Estimating)	+1.9	-1.2
Decrease in Government and Contractor Systems Engineering/Program Management costs due to compression of procurement schedule by 4 years. (Estimating)	-127.5	-147.8
Increase in Other Support due to adjustments for New Equipment Training (NET) and fielding based on Inc 2 actual contract costs. (Support)	+19.6	+10.5
Increase in spares cost due to refinement of methodology. (Support)	+0.5	+0.1
Procurement Subtotal	+64.2	+55.0

Contracts

Appropriation: RDT&E

Contract Name	WIN-T Increment 3 SDD
Contractor	General Dynamics C4 Systems, Inc.
Contractor Location	Tauton, MA 02780
Contract Number, Type	DAAB07-02-C-F404, CPAF
Award Date	July 01, 2007
Definitization Date	November 03, 2009

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
784.2	N/A	39	816.0	N/A	39	725.6	757.4

Variance	Cost Variance	Schedule Variance
Cumulative Variances To Date	-34.5	-8.2
Previous Cumulative Variances	--	--
Net Change	-34.5	-8.2

Cost And Schedule Variance Explanations

The net unfavorable cost variance of -\$34.5M is mainly driven by the following: The Highband Radio Frequency Unit - M Band Terrestrial (HRFU-MT) required additional resources for the design of the Antenna System Controller, and additional resources were required for the design of apertures and converters. NetOps Build 1.0 and Build 2.0 experienced a greater number of software Program Trouble Reports (PTR) than was anticipated resulting in additional labor being required, Highband Networking Waveform (HNW) v2.2 required additional labor efforts for PTR resolution and integration and test.

The net unfavorable schedule variance of -\$8.2M is driven by delays in NetOps Node Management and NetOps Wide Area Network (WAN) Management Build 2.5 due to additional work being required to complete Build 2.0.

Contract Comments

The change from the initial contract price to the current contract price is due to finalizing the contract requirements in the April 2009 definitization modification and awarding the Extended Range/Multi-Purpose WIN-T Communications Payload (ER/MP WCP) priced option.

The estimated price at completion is less than the initial and current contract prices due to funding cuts and limitations of the Increment 3 contract duration. Certain efforts will not be completed under the current contract, and will be deferred to a follow-on contract.

Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	0	0	39	0.00%
Production	0	0	3168	0.00%
Total Program Quantities Delivered	0	0	3207	0.00%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	16055.9	Years Appropriated	10
Expenditures To Date	1190.0	Percent Years Appropriated	40.00%
Percent Expended	7.41%	Appropriated to Date	1266.7
Total Funding Years	25	Percent Appropriated	7.89%

Total expenditures to date reflects actual disbursements through December 31, 2010.

Operating and Support Cost

Assumptions And Ground Rules

1. Operating and support costs based on the approved Acquisition Program Baseline (APB) as of October 22, 2010.
2. Costs estimated in accordance with Department of the Army Cost Analysis Manual, Deputy Assistant Secretary of the Army, US Army Cost and Economic Analysis Center, May 2002.
3. Operating and support cost factors taken from Operating and Support Management Information System.
4. The figures below are per the Office of the Secretary of Defense (OSD) Operating and Support (O&S) cost structure.
5. Mission Pay and Allowance costs are the total Military Personnel costs.
6. Mission Pay and Allowance estimates based on WIN-T manpower estimates included in the WIN-T Increment 3 Cost Analysis Requirements Description (CARD) dated December 22, 2009.
7. Intermediate Maintenance costs reflect the OSD cost element Maintenance Costs and includes Depot Maintenance and Contractor Support.
8. Estimated costs based on Operating Tempo approved by the Army's Training and Doctrine Command.
9. Other costs reflect the OSD defined Continuing Improvement cost total.
10. Costs based on two-level maintenance concept.
11. System life is estimated at 20 years.
12. Operating and support costs reflect the total average annual cost per WIN-T Increment 3 communications node. Multiplying the total average annual cost by 20 years and by 3168 communications nodes will achieve the total costs shown below.
13. There is no antecedent program to this system.

Costs BY2009 \$M		
Cost Element	WIN-T INCREMENT 3 Average Annual Cost Per Communications Node	No Antecedent
Unit-Level Manpower	0.172	--
Unit Operations	0.003	--
Maintenance	0.068	--
Sustaining Support	0.005	--
Continuing System Improvements	0.057	--
Indirect Support	--	--
Other	0.010	--
Total Unitized Cost (Base Year 2009 \$)	0.315	--

Total O&S Costs \$M	WIN-T INCREMENT 3	No Antecedent
Base Year	19927.9	--
Then Year	33390.1	--