



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-349

WIN-T Increment 2 – Initial Networking On The Move



Warfighter Information Network-Tactical Increment 2 (WIN-T Inc 2)

As of FY 2011 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 (WIN-T) Increment 2 (WIN-T Increment 2)

DoD Component

Army

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References

SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 18, 2007

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 8, 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 on-the-move (OTM) 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 2, which provides an initial commercial and military band networking OTM capability and a mobile infrastructure to Division, Brigade, Battalion and Company. WIN-T Increment 2 also supports limited collaboration and mission planning. It enables the distribution of information via voice, data and real-time video from ground-to-ground and ground-to-satellite communications. WIN-T Increment 2 enables an initial Planning, Monitoring, Controlling and Prioritizing (PMCP) capability to the Division Headquarters (HQs) and/or the Brigade network. Network survivability is enhanced by automatically reconfiguring the network due to node or link loss. Spectrum efficiency and reuse is accomplished with the Highband Network Waveform (HNW) and Net-Centric Waveform (NCW). The Quality of Service (QoS) capability enables message traffic prioritization by level of importance to the warfighter. This acquisition approach will minimize risk, cost and schedule. WIN-T Increment 3 develops the mature technologies which will be inserted into WIN-T Increment 2.

WIN-T Increment 2 will be developed, tested, produced and fielded using an evolutionary acquisition approach. This approach minimizes time, cost and risk, while providing a capability in increments that is fully integrated with the Army's overall warfighting capabilities. An evolutionary acquisition strategy is being utilized to provide for the timely insertion of new technologies into Army communication systems by adhering to the basic principles of the Department of Defense (DoD) Modular Open Systems Approach (MOSA). This allows the Army to keep pace with changing commercial technology and to maintain required interoperability with other joint, strategic and commercial standards-based networks.

Executive Summary

The WIN-T Increment 2 program conducted a Milestone C on February 3, 2010. The corresponding Acquisition Decision Memorandum (ADM) approves the Milestone C and entry into the Production and Deployment phase.

Since December 2007, the program office has continued development and test efforts to complete the Engineering and Manufacturing Development (EMD) phase. A series of major events have successfully occurred as follows: Critical Design Review (CDR) in February 2008, Development Test (DT) in November 2008, and Limited User Test (LUT) in March 2009, a Production Readiness Review in July – September 2009 and test for Mobile Throughput capability in December 2009. A Reliability Growth Plan has been established to ensure the reliability performance parameter is achieved. Initial reliability growth testing occurred at General Dynamics throughout January 2010. Additional testing is planned for February through July 2010.

The Director of Defense Research & Engineering (DDR&E) approved the WIN-T Increment 2 Technology Readiness Level (TRL) at or above 6 in March 2008. Subsequently, in July 2009, the Army's Independent Review Team (IRT) approved WIN-T Increment 2 at or above TRL 7. DDR&E approval of TRL 7 was achieved on November 5, 2009.

The WIN-T Increment 2 System Development and Demonstration (SDD) contract with General Dynamics was definitized on September 19, 2008. A Request for Proposal for the Low Rate Initial Production (LRIP) contract was released in June 2009 and a proposal was received in July 2009. This proposal is currently being evaluated. On-going technical and financial assessments have resulted in Cost as an Independent Variable (CAIV) trades to finalize the program scope. Contract Award is anticipated in March 2010, with final definitization in June 2010.

There are no significant software-related issues for 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

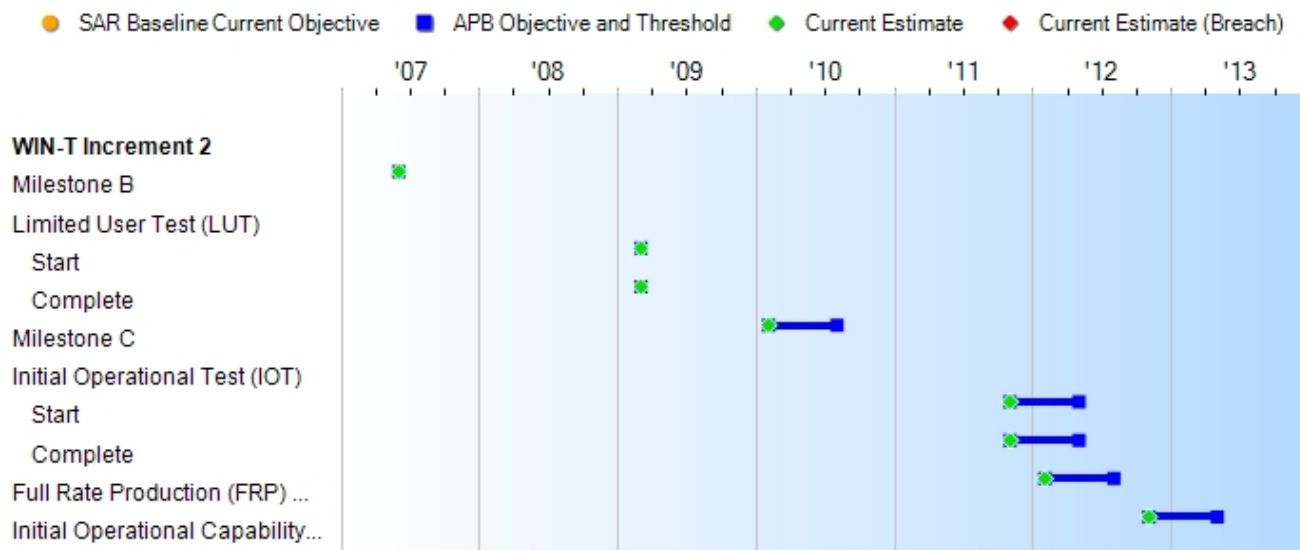
Current UCR Baseline

PAUC	None
APUC	None

Original UCR Baseline

PAUC	None
APUC	None

Schedule



Schedule Events					
Events	SAR Baseline Development Estimate	Current APB Production Objective/Threshold		Current Estimate	
Milestone B	Jun 2007	Jun 2007	Jun 2007	Jun 2007	
Limited User Test (LUT)					
Start	Dec 2008	Mar 2009	Mar 2009	Mar 2009	(Ch-1)
Complete	Dec 2008	Mar 2009	Mar 2009	Mar 2009	(Ch-1)
Milestone C	Apr 2009	Feb 2010	Aug 2010	Feb 2010	(Ch-2)
Initial Operational Test (IOT)					
Start	Jun 2010	Nov 2011	May 2012	Nov 2011	(Ch-2)
Complete	Aug 2010	Nov 2011	May 2012	Nov 2011	(Ch-2)
Full Rate Production (FRP) Decision Review	Nov 2010	Feb 2012	Aug 2012	Feb 2012	(Ch-2)
Initial Operational Capability (IOC)	Aug 2011	Nov 2012	May 2013	Nov 2012	(Ch-2)

Change Explanations

(Ch-1) The Limited User Test was changed from December 2008 to March 2009 due to availability of an identified unit to support the test.

(Ch-2) The WIN-T Increment 2 Milestone C Defense Acquisition Board (MS C DAB) was conducted on February 3, 2010. This schedule above reflects the schedule documented in the Production Acquisition Program Baseline (APB) that was approved by the Defense Acquisition Executive (DAE) on March 9, 2010.

Performance

Performance Characteristics			
SAR Baseline Development Estimate	Current APB Production Objective/Threshold	Demonstrated Performance	Current Estimate
Net Ready			
Comply with approved KIPs 2 (Ka and Ku only), 3 (CENTRIXS), 4, 5 and 7 (DSN, NIPR and SIPR)	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) IA requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, 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.	The system must fully support execution of joint critical operational activities identified in the applicable joint and system integrated 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) IA 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 assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.	Achieved threshold at Limited User Test (LUT). 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) IA requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, 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.

(Ch-1)

Network Management					
Top Secret, Secret, and Unclassified users at Brigade level	Increment 2 will enable the BCT S6 NetOps managers to plan, monitor, prioritize, control and visually display (e.g., current network status and connectivity) its WIN-T equipped units (Bde, Bn, Co) that connect: Objective: Top Secret, Secret, and Unclassified users.	Increment 2 will enable the BCT S6 NetOps managers to plan, monitor, prioritize, control and visually display (e.g., current network status and connectivity) its WIN-T equipped units (Bde, Bn, Co) that connect: Threshold: Secret and Unclassified users.	The ability to plan a network was not tested during the LUT. NetOps soldiers could not monitor, manage, or troubleshoot the Quality of Service Edge Device.	Increment 2 will enable the BCT S6 NetOps managers to plan, monitor, prioritize, control and visually display (e.g., current network status and connectivity) its WIN-T equipped units (Bde, Bn, Co) that connect: Objective: Top Secret, Secret, and Unclassified users.	(Ch-1)
Information Dissemination					
Critical survival information ATH (data) (Category 1) delivery in <0.5 sec and time sensitive information ATH (data) (Category 2) in <1 sec	Increment 2 will provide a transport capability that enables battle command and situational awareness data message information to be exchanged within a BCT's WIN-T Increment 2 enabled ATH platforms and to its WIN-T enabled ATH Divisional HQ: Objective: Critical survival information (Category 1) delivery in <0.5 seconds (95% of completed messages) and time sensitive information (Category 2) in <1 seconds (92% of completed messages).	Increment 2 will provide a transport capability that enables battle command and situational awareness data message information to be exchanged within a BCT's WIN-T Increment 2 enabled ATH platforms and to its WIN-T enabled ATH Divisional HQ: Threshold: Critical survival information (Category 1) delivery in < or = to 5 seconds (95% of completed messages) and time sensitive information (Category 2) in <8 seconds (92% of completed messages).	Demonstrated during Development Test in December 2008 and used during the LUT in March 2009.	Increment 2 will provide a transport capability that enables battle command and situational awareness data message information to be exchanged within a BCT's WIN-T Increment 2 enabled ATH platforms and to its WIN-T enabled ATH Divisional HQ: Objective: Critical survival information (Category 1) delivery in <0.5 seconds (95% of completed messages) and time sensitive information (Category 2) in <1 seconds (92% of completed messages).	(Ch-1)
Force Protection Armor required for protection of passengers inside the vehicle cab from small arms fire, mines, and other anti-vehicle/personnel threats					
Required	Increment 2 unique vehicles require armor kits for protection of passengers inside the vehicle cab from	Increment 2 unique vehicles require armor kits for protection of passengers inside the vehicle cab from small arms fire, mines, and	Achieved threshold at LUT.	Increment 2 unique vehicles require armor kits for protection of passengers inside the vehicle cab from small arms fire, mines, and	(Ch-1)

	small arms fire, mines, and other anti-vehicle/ personnel	other anti-vehicle/personnel threats (IAW JROCM 120-05)		other antivehicle personnel.
Mobile Throughput For Brigade/Battalion maneuver commanders and their CPs				
From 0 to 45 mph w/4 mbps per link available for user data	Increment 2 will enable selected warfighters (Bde/Bn maneuver commanders and their CPs) to conduct decisive operations while moving "cross-country" utilizing satellite communications: Objective: Ground vehicles: from 0 to 45 mph with 4 Mbps per link available for user data.	Increment 2 will enable selected warfighters (Bde/Bn maneuver commanders and their CPs) to conduct decisive operations while moving "cross-country" utilizing satellite communications: Threshold: Ground vehicles: from 0 to 25 mph with 256 Kbps per link available for user data.	Not demonstrated in LUT. TRADOC clarified KPP 5 as aggregate bandwidth (both UDP and TCP-IP, in December 2009). Development Test (DT)demonstrated 160 Kbps simultaneously sent and received UDP data in December 2008. Army and contractor DT demonstrated rates exceeding 256 Kbps using UDP data in December 2009. Army is planning DT event for more challenging TCP-IP data.	Increment 2 will enable selected warfighters (Bde/Bn maneuver commanders and their CPs) to conduct decisive operations while moving "crosscountry" utilizing satellite communications: Objective: Ground vehicles: from 0 to 45 mph with 4 Mbps per link available for user data.

(Ch-1)

Requirements Reference

Capability Production Document (CPD) dated November 25, 2008

Change Explanations

(Ch-1) The WIN-T Increment 2 Milestone C Defense Acquisition Board (DAB) was conducted on February 3, 2010. The current estimates for performance parameters included in this section reflect those estimates that are included in the revised Acquisition Program Baseline (APB) that was approved by the Defense Acquisition Executive (DAE) on March 9, 2010.

Notes

Performance Characteristics provided are as documented in the Capability Development Document (CDD) approved November 6, 2006 by the Joint Requirements Oversight Council (JROC). This document was revalidated by the JROC on May 2, 2007 as part of the Nunn-McCurdy Certification.

A WIN-T Increment 2 Capabilities Production Document (CPD) was approved by the Joint Requirements Oversight Council (JROC) on November 25, 2008.

Demonstrated performance is as documented in the Operational Assessment dated January 14, 2010.

Acronyms and Abbreviations

ATH - At The Halt
ATO - Authority to Operate
BCT - Brigade Combat Team
Bde - Brigade
Bn - Battalion
CENTRIX - Combined Enterprise Regional Information Exchange
CP - Command Post
CPD - Capabilities Production Document
DAA - Designated Approving Authority
DISR - Department of Defense Information Technology Standards and Profile Registry
DSN - Defense Switched Network
DT - Development Test
GIG - Global Information Grid
HQ - Headquarters
IA - Information Assurance
IT - Information Technology
JROC - Joint Requirements Oversight Council
Ka - Kurtz Above
Kbps - Kilobits Per Second
KIPs - Key Interface Profiles
KPP - Key Performance Parameter
Ku - Kurtz Under
LUT - Limited User Test
Mbps - Megabits Per Second
Mph - Miles Per Hour
NCOW - Network Centric Operations and Warfare
NetOps - Network Operations
NIPR - Non-Secure Internet Protocol Router
RM - Reference Model
Sec - Second
SIPR - Secure Internet Protocol Router
TCP-IP - Transmission Control Protocol - Internet Protocol
TRADOC - Training and Doctrine Command
UDP - User Datagram Protocol

Track to Budget

General Notes

Project 355 was a shared line for both WIN-T Increment 2 and WIN-T Increment 3. Project 367 begins in FY2009 for WIN-T Increment 2 exclusively.

RDT&E

Appn	BA	PE
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Army 2040 04 0603782A

Project	Name
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355 WIN-T DEM/VAL/Warfighter (Shared) (Sunk)
Information Network Tactical -
DEM/VAL

Notes: Sunk in 2008

367 WIN-T DEM/VAL/Warfighter
Information Network Tactical -
DEM/VAL

Procurement

Appn	BA	PE
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Army 2035 02

Line Item	Name
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BW7115 Increment 2 Initial Networking On The Move

BS9741 WIN-T INCREMENT 2 Spares

Cost and Funding

Cost Summary

Total Acquisition Cost							
Appropriation	BY 2010 \$M			BY 2010 \$M	TY \$M		
	SAR Baseline Development Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Development Estimate	Current APB Production Objective	Current Estimate
RDT&E	232.7	264.7	291.2	265.6	235.0	266.5	267.4
Procurement	3384.5	4421.3	4863.4	4421.2	3672.0	4730.4	4730.3
Flyaway	--	--	--	3429.7	--	--	3655.5
Recurring	--	--	--	3319.7	--	--	3540.0
Non Recurring	--	--	--	110.0	--	--	115.5
Support	--	--	--	991.5	--	--	1074.8
Other Support	--	--	--	729.8	--	--	790.9
Initial Spares	--	--	--	261.7	--	--	283.9
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	3617.2	4686.0	N/A	4686.8	3907.0	4996.9	4997.7

Confidence Level

Confidence Level of cost estimate for current APB: 50%

The Independent Cost Estimate (ICE) to support the WIN-T Inc 2 Milestone C decision, like all life cycle cost estimates previously performed by the Cost Assessment and Program Evaluation (CAPE) office, is 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 (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.

The Base Year for the program has been updated from FY 2007 to FY 2010 using the following deflators:

Appn Category	Deflation Factor
RDT&E	1.0495382
Procurement	1.04975856

Cost Notes

Funding changes to the WIN-T Increment 2 program are based on the FY2010 President's Budget and the FY2011 President's Budget which have increased funding and the number of units WIN-T Increment 2 procures.

The costs in this section reflect the Office of the Secretary of Defense Cost Assessment and Program Evaluation Independent Cost Estimate (OSD CAPE ICE) that were presented at the Milestone C review on February 3, 2010.

Like all life-cycle cost estimated previously performed by the OSD CAPE, the updated estimate to support the WIN-T Increment 2 Milestone C approval is not consistent with the 80% confidence level specified in the recent Acquisition Reform Act of 2009. It is 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. (Source: Acquisition Decision Memorandum of March 9, 2010.)

Total Quantity			
Quantity	SAR Baseline Development Estimate	Current APB Production	Current Estimate
RDT&E	56	56	56
Procurement	1837	2160	2160
Total	1893	2216	2216

Quantity Notes

Unit of measure is a combination of communications nodes, which vary in capability depending upon the increment of WIN-T being executed. WIN-T Increment 2 unit of measure is comprised of Tactical Communications Nodes (TCNs), Points of Presence (PoPs) and Soldier Network Extensions (SNEs).

Cost and Funding

Funding Summary

Appropriation Summary									
FY 2011 President's Budget / December 2009 SAR (TY\$ M)									
Appropriation	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
RDT&E	207.1	18.4	17.4	3.0	0.0	0.0	0.0	21.5	267.4
Procurement	136.0	467.1	362.1	789.3	783.7	815.8	1105.7	270.6	4730.3
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 2011 Total	343.1	485.5	379.5	792.3	783.7	815.8	1105.7	292.1	4997.7
PB 2009 Total	382.7	606.0	782.2	709.6	616.8	614.3	159.2	0.0	3870.8
Delta	-39.6	-120.5	-402.7	82.7	166.9	201.5	946.5	292.1	1126.9

Quantity Summary										
FY 2011 President's Budget / December 2009 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Development	56	0	0	0	0	0	0	0	0	56
Production	0	56	248	96	444	384	376	556	0	2160
PB 2011 Total	56	56	248	96	444	384	376	556	0	2216
PB 2009 Total	56	105	303	413	359	303	354	0	0	1893
Delta	0	-49	-55	-317	85	81	22	556	0	323

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
2007	--	--	--	--	--	--	8.2
2008	--	--	--	--	--	--	107.6
2009	--	--	--	--	--	--	91.3
2010	--	--	--	--	--	--	18.4
2011	--	--	--	--	--	--	17.4
2012	--	--	--	--	--	--	3.0
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	--
2015	--	--	--	--	--	--	--
2016	--	--	--	--	--	--	21.5
Subtotal	56	--	--	--	--	--	267.4

Annual Funding 2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	BY 2010 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2007	--	--	--	--	--	--	8.4
2008	--	--	--	--	--	--	108.8
2009	--	--	--	--	--	--	91.2
2010	--	--	--	--	--	--	18.2
2011	--	--	--	--	--	--	16.9
2012	--	--	--	--	--	--	2.9
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	--
2015	--	--	--	--	--	--	--
2016	--	--	--	--	--	--	19.2
Subtotal	56	--	--	--	--	--	265.6

Annual Funding								
2035 Procurement Other Procurement, Army								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2009	56	134.3	--	--	134.3	1.7	136.0	
2010	248	386.9	--	56.0	442.9	24.2	467.1	
2011	96	217.9	--	2.5	220.4	141.7	362.1	
2012	444	701.9	--	--	701.9	87.4	789.3	
2013	384	561.4	--	28.5	589.9	193.8	783.7	
2014	376	656.7	--	6.2	662.9	152.9	815.8	
2015	556	880.9	--	22.3	903.2	202.5	1105.7	
2016	--	--	--	--	--	270.6	270.6	
Subtotal	2160	3540.0	--	115.5	3655.5	1074.8	4730.3	

Annual Funding 2035 Procurement Other Procurement, Army								
Fiscal Year	Quantity	BY 2010 \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2009	56	133.8	--	--	133.8	1.7	135.5	
2010	248	380.5	--	55.0	435.5	23.8	459.3	
2011	96	210.9	--	2.4	213.3	137.1	350.4	
2012	444	668.0	--	--	668.0	83.1	751.1	
2013	384	525.3	--	26.7	552.0	181.3	733.3	
2014	376	604.2	--	5.7	609.9	140.7	750.6	
2015	556	797.0	--	20.2	817.2	183.1	1000.3	
2016	--	--	--	--	--	240.7	240.7	
Subtotal	2160	3319.7	--	110.0	3429.7	991.5	4421.2	

Low Rate Initial Production

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	6/5/2007	2/3/2010
Approved Quantity	408	400
Reference	Restructure ADM	MS C ADM
Start Year	2009	2010
End Year	2010	2011

The WIN-T Increment 2 Low Rate Initial Production (LRIP) program is consistent with Defense Acquisition Executive (DAE) direction contained in the WIN-T Acquisition Decision Memorandum (ADM) dated June 5, 2007 and corresponding Office of the Secretary of Defense (OSD) Cost Analysis Improvement Group (CAIG) estimate. The ADM stated "The Army will fund to the Chairman of the Cost Analysis Improvement Group's (CAIG) estimate for Increments 1 and 2; procure Increment 1 equipment to complete fielding to about 199 Army units; and procure Increment 2 equipment for about 37 Army units, based on affordability through Fiscal Year (FY) 2013." The current WIN-T Increment 2 program only procures 28 Army units through FY2013.

The original LRIP quantity was reported to Congress in the September 2007 Selected Acquisition Report (SAR) and again in the December 2007 SAR. This original LRIP plan consisted of a two year LRIP phase with quantities totaling 408 communications nodes, or approximately 22%, of the total Army Procurement Objective (APO) of 1837. These LRIP units were to be procured over two years, with the first year providing units to support Production Qualification Test (PQT) and Initial Operational Test (IOT), and the second year supporting production ramp up and fielding.

The current WIN-T Increment 2 LRIP plan consists of a two year LRIP phase with quantities totaling 400 communications nodes, or approximately 18%, of the total APO of 2256. The first year of LRIP provides units to support Initial Operational Test (IOT) and the second year permits an orderly increase in the production rate for the system sufficient to lead to full-rate production upon the successful completion of operational testing.

Foreign Military Sales

Notes

None.

Nuclear Costs

None.

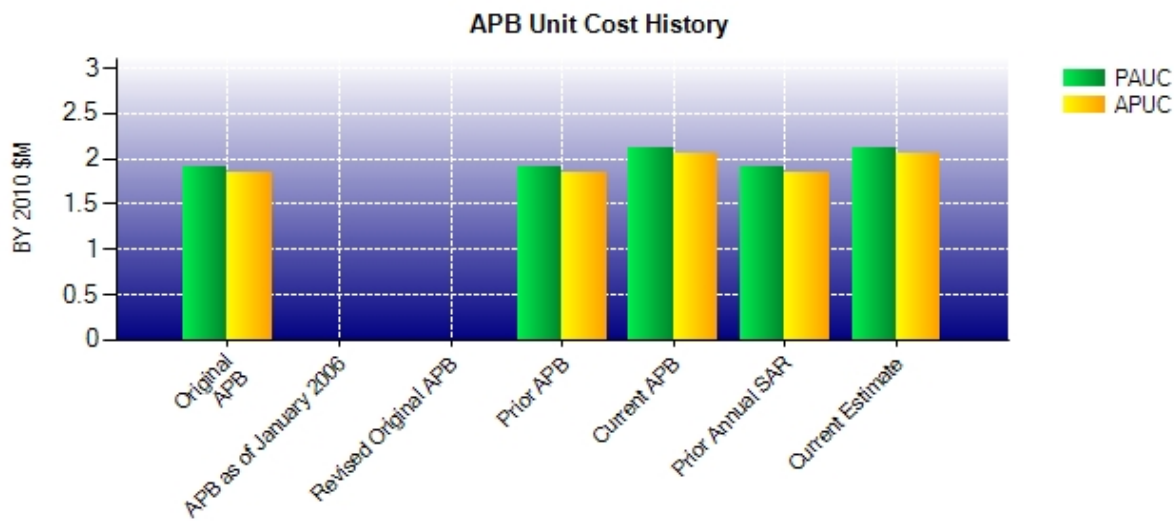
Unit Cost

Unit Cost Report

Item	BY 2010 \$M	BY 2010 \$M	% Change
	Current UCR Baseline (Mar 2010 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	4686.0	4686.8	
Quantity	2216	2216	
Item	2.115	2.115	0.00
Average Procurement Unit Cost			
Cost	4421.3	4421.2	
Quantity	2160	2160	
Unit Cost	2.047	2.047	0.00

Item	BY 2010 \$M	BY 2010 \$M	% Change
	Original UCR Baseline (Oct 2007 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	3617.2	4686.8	
Quantity	1893	2216	
Unit Cost	1.911	2.115	+10.68
Average Procurement Unit Cost			
Cost	3384.5	4421.2	
Quantity	1837	2160	
Unit Cost	1.842	2.047	+11.13

Unit Cost History



Item	Date	BY 2010 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Oct 2007	1.911	1.842	2.064	1.999
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 2007	1.911	1.842	2.064	1.999
Current APB	Mar 2010	2.115	2.047	2.255	2.190
Prior Annual SAR	Dec 2007	1.911	1.842	2.045	1.980
Current Estimate	Dec 2009	2.115	2.047	2.255	2.190

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	
2.064	-0.055	-0.063	0.016	0.000	0.093	0.000	0.200	0.191	2.255

Current SAR Baseline to Current Estimate (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
1.999	-0.055	-0.055	0.017	0.000	0.079	0.000	0.205	0.191	2.190

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	Jun 2007	N/A	Jun 2007
Milestone C	N/A	Apr 2009	N/A	Feb 2010
IOC	N/A	Aug 2011	N/A	Nov 2012
Total Cost (TY \$M)	N/A	3907.0	N/A	4997.7
Total Quantity	N/A	1893	N/A	2216
PAUC	N/A	2.064	N/A	2.255

Cost Variance

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	235.0	3672.0	--	3907.0
Previous Changes				
Economic	-1.8	-34.0	--	-35.8
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-0.1	+86.1	--	+86.0
Other	--	--	--	--
Support	--	-86.4	--	-86.4
Subtotal	-1.9	-34.3	--	-36.2
Current Changes				
Economic	-1.2	-84.0	--	-85.2
Quantity	--	+527.4	--	+527.4
Schedule	--	+36.1	--	+36.1
Engineering	--	--	--	--
Estimating	+35.5	+84.4	--	+119.9
Other	--	--	--	--
Support	--	+528.7	--	+528.7
Subtotal	+34.3	+1092.6	--	+1126.9
Adjustments	--	--	--	--
Total Changes	+32.4	+1058.3	--	+1090.7
Current Estimate	267.4	4730.3	--	4997.7

Summary BY 2010 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	232.7	3384.5	--	3617.2
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	+78.5	--	+78.5
Other	--	--	--	--
Support	--	-78.5	--	-78.5
Subtotal	--	--	--	--
Current Changes				
Economic	--	--	--	--
Quantity	--	+477.1	--	+477.1
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+32.9	+81.2	--	+114.1
Other	--	--	--	--
Support	--	+478.4	--	+478.4
Subtotal	+32.9	+1036.7	--	+1069.6
Adjustments	--	--	--	--
Total Changes	+32.9	+1036.7	--	+1069.6
Current Estimate	265.6	4421.2	--	4686.8

Previous Estimate: December 2007

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-1.2
Adjustment for current and prior escalation. (Estimating)	+1.0	+1.0
Addition of Follow-On Test and Evaluation (FOTE) for insertion of the Joint Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (JC4ISR) radio and antennas. (Estimating)	+19.2	+21.5
Addition of Force Development Test and Evaluation (FDT&E) and cold region testing. (Estimating)	+12.7	+13.0
RDT&E Subtotal	+32.9	+34.3

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-84.0
Quantity variance resulting from an increase of 323 communications nodes from 1837 to 2160. (Quantity)	+477.1	+527.4
Stretch-out of procurement buy profile. (Schedule)	0.0	+36.1
Adjustment for current and prior escalation. (Estimating)	+10.6	+10.8
Increase in unit cost of A-Kits due to introduction of Stryker Brigade Combat Teams and refinement of A-Kit estimate for armored vehicles. (Estimating)	+235.6	+245.7
Increase due to refinement of Hardware Warranty estimate. (Estimating)	+17.8	+18.9
Increase due to refinement of Contractor System Engineering/Program Management (SE/PM) and testing estimates, and also additional contractor testing requirements for the JC4ISR radio. (Estimating)	+172.1	+177.5
Increase due to refinement of Government SE/PM cost estimate. (Estimating)	+69.5	+73.2
Revised estimate of Engineering Changes revised due to better system definition. (Estimating)	-424.4	-441.7
Adjustment for current and prior escalation. (Support)	+1.1	+1.1
Increase in Other Support cost due to increases in expected effort required to support each fielding; and refinement of the cost of maintaining and supporting system hardware and software. (Support)	+371.4	+409.6
Increase in Initial Spares estimate based on updated Mean Time Between Failure data for system components. (Support)	+105.9	+118.0
Procurement Subtotal	+1036.7	+1092.6

Contracts

Contract Identification

Appropriation: RDT&E
Contract Name: WIN-T Increment 2
Contractor: General Dynamics C4 System
Contractor Location: Taunton, MA 02780
Contract Number: DAAB07-02-C-F404
Contract Type: Cost Plus Award Fee (CPAF)
Award Date: August 14, 2007
Definitization Date: September 19, 2008

Contract Price

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
126.8	N/A	56	113.7	N/A	56	153.0	153.0

Contract Variance

Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (11/27/2009)	-3.5	-1.7
Previous Cumulative Variances	+0.1	+2.7
Net Change	-3.6	-4.4

Cost and Schedule Variance Explanations

General Contract Variance Explanation

Performance data reflects contractor reporting, as reported in the January 2010 Contract Performance Report (CPR). This contract is currently performing close to the planned schedule and is slightly over cost. The net unfavorable schedule variance of \$4.4M is due to delayed tasks, resource prioritization and prioritization of work efforts and manufacturing delays. The net unfavorable cost variance of \$3.6M is due to limited development assets, workload prioritization and staff resource availability.

Notes

The WIN-T Increment 2 program was initiated per the June 5, 2007 Acquisition Decision Memorandum. The WIN-T Increment 2 System Development and Demonstration (SDD) effort was implemented through a within scope change to the Phase 3 SDD contract, under authority of the Federal Acquisition Regulation (FAR) 52.243-02, Changes. The modification incorporating this change was awarded on August 14, 2007.

The Initial Contract Price of \$126.8M represents a Not To Exceed amount. The Current Contract Price represents the performance measurement baseline of the contract.

Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	56	56	56	100.00%
Production	0	0	2160	0.00%
Total Program Quantity Delivered	56	56	2216	2.53%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	4997.7	Years Appropriated	4
Expended to Date	153.7	Percent Years Appropriated	40.00%
Percent Expended	3.08%	Appropriated to Date	828.6
Total Funding Years	10	Percent Appropriated	16.58%

Total expenditures to date reflects actual disbursements through December 30, 2009.

Operating and Support Cost

Assumptions and Ground Rules

1. Operating and support costs based on the Army Affordability Assessment dated January 28, 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. A "buy-to-budget" strategy is reflected in the figures below.
6. Mission Pay and Allowance costs are the total Military Personnel costs.
7. Mission Pay and Allowance estimates based on WIN-T manpower estimates included in the WIN-T Increment 2 Cost Analysis Requirements Description (CARD) dated June 3, 2009.
8. Unit Level Consumption and Intermediate Maintenance assume threshold reliability is met.
9. Intermediate Maintenance Costs reflect the OSD cost element Maintenance Costs and includes Depot Maintenance and Contractor Support.
10. Estimated costs based on Operating Tempo approved by the Army's Training and Doctrine Command.
11. Costs based on two-level maintenance concept.
12. System life is estimated at 10 years.
13. Operating and support costs reflect the total average annual cost for WIN-T Increment 2 communications nodes. Multiplying the total average annual cost by 10 years and by 2160 communications nodes will achieve the total costs shown below.
14. There is no antecedent program to this system.

Cost Estimate Reference:

None

Sustainment Strategy:

None

Antecedent Information:

None

Unitized O&S Costs BY2010 \$K		
Cost Element	WIN-T Increment 2 Average Annual Cost Per Communications Node	Antecedent System (Antecedent) N/A
Mission Pay & Allowance	116.080	--
Unit Level Consumption	2.700	--
Intermediate Maintenance	59.710	--
Depot Maintenance	0.000	--
Contractor Support	0.000	--
Sustaining Support	13.430	--
Indirect	0.000	--
Other	24.450	--
Total	216.370	--

Unitized Cost Comments:

None

Item	Total O&S Cost \$M			
	WIN-T Increment 2			Antecedent System (Antecedent)
	Current Production APB Objective/Threshold		Current Estimate	
Base Year	4673.7	5141.1	4673.7	N/A
Then Year	5668.0	N/A	5668.0	N/A

Total O&S Cost Comment

None

Disposal Estimate Details

Date of Estimate:

Source of Estimate:

Disposal/Demilitarization Total Cost (BY 2010 \$M):