Selected Acquisition Report (SAR)

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

WIN-T Increment 2 – Initial Networking On The Move

WIN-T INCREMENT 2

As of December 31, 2011

Defense Acquisition Management
Information Retrieval
(DAMIR)

Table of Contents

Program Information

Designation And Nomenclature (Popular Name)

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

DoD Component

Army

Responsible Office

Responsible Office

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Date Assigned September 29, 2011

References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acqusition Program Baseline (APB) dated March 8, 2010.

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 8, 2010

Mission and Description

WIN-T Inc 2 provides commercial and military band satellite communications to Division, Brigade, Battalion and Company, while also providing On-The-Move (OTM) capability and a mobile infrastructure; it also provides Satellite Communications (SATCOM) OTM extended to Company level. It supports limited collaboration and mission planning. It enables distribution of information via voice, data and real-time video from ground-to-ground and ground-to-satellite communications. Inc 2 extends wide area/Global Information Grid (GIG) network connectivity to the lower tactical subnets at the Company level. It capitalizes on commercial off the shelf/government off the shelf (COTS/GOTS) mature technologies and adds mobility to Brigade Combat Teams (BCTs), Battalions and Companies while enabling planning, monitoring, controlling and prioritizing (PMCP) to Div HQs and/or the Brigade network. Inc 2 is key to the Army's Network Modernization program. Inc 3 mature technologies will continue to be provided to Inc 2.

Executive Summary

WIN-T Inc 2 conducted a Milestone C (MS C) on February 3, 2010. The corresponding Acquisition Decision Memorandum (ADM) approved the MS C and entry into the Production and Deployment phase and provided authorization to procure the Low Rate Initial Production (LRIP) Lot 1A. A Letter Contract for Production efforts was awarded on March 24, 2010 and was definitized on December 30, 2010. A subsequent ADM on September 3, 2010 approved authorization to procure the LRIP Lots 1B and 2. A delivery order for the production of Lots 1B and 2 was awarded on January 28, 2011. Follow-on Lots 3 and 4 will be awarded after the Full Rate Production Decision Review, which is planned for September 2012.

As reported in the December 2010 SAR, Inc 2 incurred a Total Procurement Cost Breach due to Headquarters Army (HQDA) increased Procurement funding in FY 2012 and FY 2016 which supports fielding to 9 Brigade Combat Teams (9 BCTs) and 1 Division (Div). A Program Deviation Report (PDR) was signed by the Army Acquisition Executive on May 31, 2011 and has been sent forward.

A series of events have successfully occurred as follows: a Production Qualification Test-Contractor (PQT-C), a Production Qualification Test-Government (PQT-G), Joint Interoperability Test Certification (JITC) testing, a Logistics Demonstration (LOGDEMO), Reliability Qualification Testing, Army Interoperability Certification (AIC) testing, and a Cold Region Test. In addition, New Equipment Training has begun and is planned to complete March 2012, in preparation for an Initial Operational Test (IOT) in May 2012. In addition, the Inc 2 program has participated in the Army's Network Integration Exercise (NIE) 12.1. This provides the Army with an early integration opportunity, soldier hands-on exposure and lessons learned, reducing risk for the Inc 2 IOT.

An Army Configuration Steering Board (CSB) was held on October 31, 2011. Funding for the Inc 2 program was returned to the President's Budget FY 2012 level. The CSB also directed that Inc 2 fielded units will not be replaced by Inc 3. Instead, Inc 2 will remain in the field and receive the Joint Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (JC4ISR) radio and antenna technology insert.

The Inc 2 Test and Evaluation Master Plan (TEMP) has been approved at the Army level. The TEMP has been forwarded for formal staffing within the Office of the Secretary of Defense (OSD). Comments continue to be adjudicated. Final TEMP approval is required prior to the IOT scheduled to begin in May 2012.

A Full Rate Production Acquisition Working Integrated Product Team (WIPT) Kickoff was held on February 1, 2012. WIPT members concurred with the way ahead to the Full Rate Production Decision Review (FRP DR) and the list of documents required for FRP.

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

Threshold Breaches

APB Breaches		
Schedule		☑
Performance		☐
Cost	RDT&E	☐
	Procurement	☑
	MILCON	☐
	Acq O&M	☐
Unit Cost	PAUC	☐
	APUC	☐

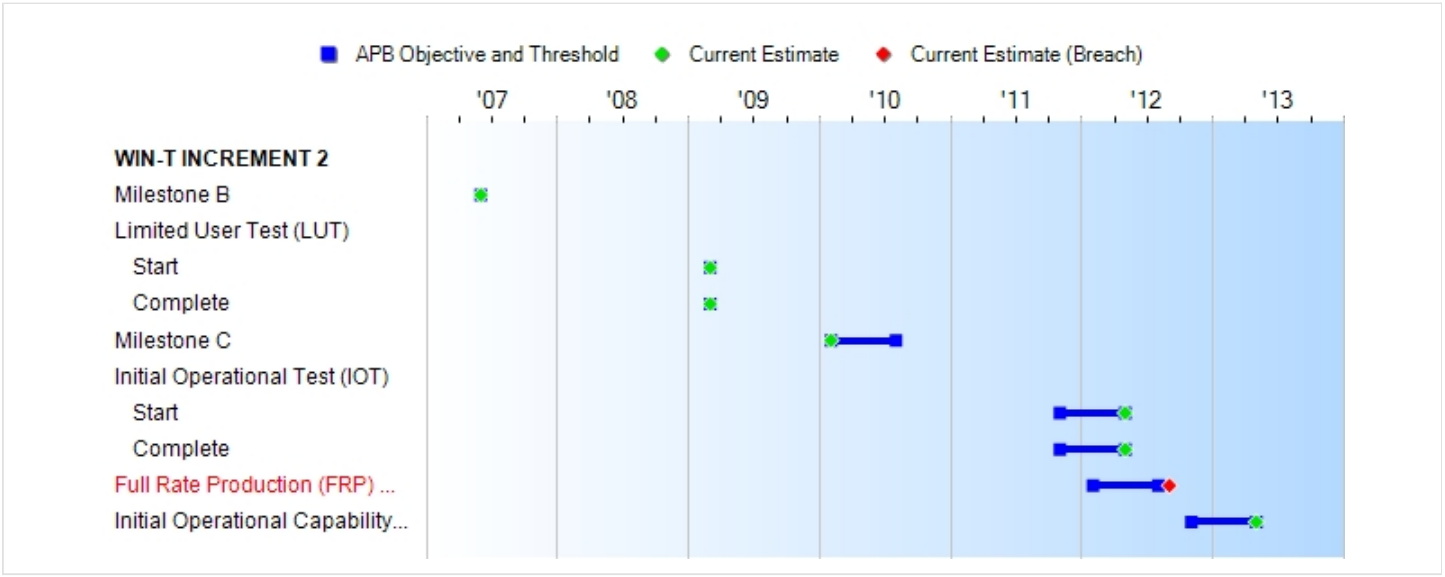
Nunn-McCurdy Breaches		
Current UCR Baseline		
	PAUC	None
	APUC	None
Original UCR Baseline		
	PAUC	None
	APUC	None

Explanation of Breach

The program has incurred a schedule breach due to a shift in the Initial Operational Test (IOT) schedule. The IOT start date has changed from November 2011 to May 2012 as directed by Army Headquarters to accommodate the Army Network Integration Exercise (NIE) testing schedules. This change impacted the Full Rate Production (FRP) date as a sufficient amount of time is required to receive necessary test reports in support of the FRP decision review.

As described in the December 2010 SAR, because the program is executing successfully, there have been increases to the Inc 2 Procurement quantities and therefore funding. The FY 2012 and subsequently the FY 2013 President's Budgets reflect the increased funding and the quantity of units Inc 2 procures. A Program Deviation Report was signed by the Army Acquisition Executive (AAE) on May 31, 2011 and has been sent forward.

Schedule



Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	
Milestone B	JUN 2007	JUN 2007	JUN 2007	JUN 2007	
Limited User Test (LUT)					
Start	MAR 2009	MAR 2009	MAR 2009	MAR 2009	
Complete	MAR 2009	MAR 2009	MAR 2009	MAR 2009	
Milestone C	FEB 2010	FEB 2010	AUG 2010	FEB 2010	
Initial Operational Test (IOT)					
Start	NOV 2011	NOV 2011	MAY 2012	MAY 2012	(Ch-1)
Complete	NOV 2011	NOV 2011	MAY 2012	MAY 2012	
Full Rate Production (FRP) Decision Review	FEB 2012	FEB 2012	AUG 2012	**SEP 2012** [1]	(Ch-2)
Initial Operational Capability (IOC)	NOV 2012	NOV 2012	MAY 2013	MAY 2013	

[1] *APB Breach*

Change Explanations

(Ch-1) The IOT Start date changed from April 2012 to May 2012 as directed by Army Headquarters to accommodate the Army Network Integration Exercise (NIE) testing schedules.

(Ch-2) The FRP Decision Review changed from August 2012 to September 2012 due to changes in the IOT schedule and time required to receive reports needed for the FRP decision review.

Performance

Characteristics	SAR Baseline Prod Est	Current APB Production 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 identified in the KIP declaration table, 3) NCOW RM Enterprise Services 4) IA requirements including availability, integrity, authenticat-	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, authenticat-	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,	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, authentica-

	ion, 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.	ion, 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.	authenticat-ion, confidentiality, and nonrepudiation, and issuance of an IATO by the DAA, and 5) Operationally effective information exchanges; and mission critical performance and inforamtion assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.		tion, confidentiality, and nonrepudi-ation, 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.
Network Management	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	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	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	The ability to plan a network was not tested at LUT. NetOps soldiers could not monitor, manage or troubleshoot the Quality of Service Edge Device.	Inc 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.	units (Bde, Bn, Co) that connect: Objective: Top Secret, Secret, and Unclassified users.	units (Bde, Bn, Co) that connect: Threshold: Secret and Unclassified users.		units (Bde, Bn, Co) that connect: Objective: Top Secret, Secret, and Unclassified users.
Information Dissemination	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	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	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	Demonstrat-ed during Development Test in December 2008 and used during the LUT in March 2009.	Inc 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 Inc 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).	messages).	messages).		messages).
Force Protection Armor required for protection of passengers inside the vehicle cab from small arms fire, mines, and other anti-vehicle/personnel threats	Increment 2 unique vehicles require armor kits for protection of passengers inside the vehicle cab from small arms fire, mines, and other anti-vehicle/personnel	Increment 2 unique vehicles require armor kits for protection of passengers inside the vehicle cab from small arms fire, mines, and other anti-vehicle/ personnel	Increment 2 unique vehicles require armor kits for protection of passengers inside the vehicle cab from small arms fire, mines, and other anti-vehicle/personnel threats (IAW JROCM 120-05)	Achieved threshold at LUT.	Inc 2 unique vehicles require armor kits for protection of passengers inside the vehicle cab from small arms fire, mines, and other antivehicle personnel.
Mobile Throughput For Brigade/Battalion maneuver commanders and their CPs	Increment 2 will enable selected warfighters (Bde/Bn maneuver commanders and their CPs) to conduct decisive operations while moving "cross-country" utilizing satellite communicat-ions: 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 communicat-ions: 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 communicat-ions: Threshold: Ground vehicles: from 0 to 25 mph with 256 Kbps per link available for user data.	Not demonstrat-ed at LUT. TRADOC clarified KPP5 as aggregate bandwidth (both UDP and TCP-IP) in December 2009. Development Test demonstrat-ed 160 Kbps simul-taneously sent and received UDP data in December 2008. TCP-IP data rates were demonstrat-ed at Production Qualification Test - Government in June 2011.	Inc 2 will enable selected warfighters (Bde/Bn maneuver commanders and their CPs) to conduct decisive operations while moving "cross-country" utilizing satellite communica-tions: Objective: Ground vehicles: from 0 to 45 mph with 4 Mbps per link available for user data.

Requirements Source:
Capability Production Document (CPD) for Warfighter Information Network - Tactical (WIN-T), approved November 25, 2008

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

Change Explanations

None

Memo

Demonstrated performance is as demonstrated in the LUT of March 2009, the Production Qualification Test-Government (PQT-G) of June 2011, and the Operational Assessment (OA) dated January 14, 2010.

Track To Budget

RDT&E				
APPN 2040	BA 04	PE 0603782A	(Army)	
	Project 355	WIN-T DEM/VAL/Warfighter Information Network Tactical - DEM/VAL	(Shared)	(Sunk)
	Sunk in 2008			
	Project 367	WIN-T DEM/VAL/Warfighter Information Network Tactical - DEM/VAL		
	Project 367 began in FY 2009 for WIN-T Inc 2 exclusively. Prior to FY 2009 Project 355 was a shared line for both WIN-T Inc 2 and WIN-T Inc 3.			

Procurement			
APPN 2035	BA 04	PE 0310706A	(Army)
	ICN BS9741	WIN-T INCREMENT 2 Spares	
APPN 2035	BA 02	PE 0310706A	(Army)
	ICN BW7115	Increment 2 Initial Networking On The Move	

The parent line for the Inc 2 Spares (BS9741) is BS9100. The parent line for the Inc 2 procurement (BW7115) is BW7100.

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

	BY2010 $M			BY2010 $M	TY $M		
Appropriation	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	264.7	264.7	291.2	279.5	266.5	266.5	283.5
Procurement	4421.3	4421.3	4863.4	**5628.1** [1]	4730.4	4730.4	6177.8
Flyaway	3426.9	--	--	4212.9	3652.6	--	4589.9
Recurring	3316.9	--	--	3987.5	3537.1	--	4348.0
Non Recurring	110.0	--	--	225.4	115.5	--	241.9
Support	994.4	--	--	1415.2	1077.8	--	1587.9
Other Support	732.7	--	--	1088.5	793.9	--	1222.7
Initial Spares	261.7	--	--	326.7	283.9	--	365.2
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	4686.0	4686.0	N/A	5907.6	4996.9	4996.9	6461.3

[1] ***APB Breach***

Confidence Level is 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 (MDAP). 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.

As documented in the December 2010 SAR, because the program is executing successfully, there have been increases to the Inc 2 Procurement quantities and therefore funding. The FY 2012 and subsequently the FY 2013 President's Budgets reflect the increased funding and the quantity of units Inc 2 procures. A Program Deviation Report was signed by the Army Acquisition Executive (AAE) on May 31, 2011 and has been sent forward.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	56	56	56
Procurement	2160	2160	2790
Total	2216	2216	2846

Unit of measure is a combination of communications nodes, which vary in capability depending upon the increment of WIN-T being executed. WIN-T Inc 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 and Quantity Summary
FY2013 President's Budget / December 2011 SAR (TY$ M)

Appropriation	Prior	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	To Complete	Total
RDT&E	242.2	10.1	2.8	6.0	0.9	21.5	0.0	0.0	283.5
Procurement	941.5	827.3	785.9	982.6	1098.4	1052.7	286.2	203.2	6177.8
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 2013 Total	1183.7	837.4	788.7	988.6	1099.3	1074.2	286.2	203.2	6461.3
PB 2012 Total	1207.9	946.5	775.9	769.2	1081.8	1059.3	267.9	244.0	6352.5
Delta	-24.2	-109.1	12.8	219.4	17.5	14.9	18.3	-40.8	108.8

Quantity	Undistributed	Prior	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	To Complete	Total
Development	56	0	0	0	0	0	0	0	0	56
Production	0	400	546	368	482	556	438	0	0	2790
PB 2013 Total	56	400	546	368	482	556	438	0	0	2846
PB 2012 Total	56	400	642	336	370	556	486	0	0	2846
Delta	0	0	-96	32	112	0	-48	0	0	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
2007	--	--	--	--	--	--	8.2
2008	--	--	--	--	--	--	107.6
2009	--	--	--	--	--	--	91.3
2010	--	--	--	--	--	--	18.3
2011	--	--	--	--	--	--	16.8
2012	--	--	--	--	--	--	10.1
2013	--	--	--	--	--	--	2.8
2014	--	--	--	--	--	--	6.0
2015	--	--	--	--	--	--	0.9
2016	--	--	--	--	--	--	21.5
Subtotal	**56**	**--**	**--**	**--**	**--**	**--**	**283.5**

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2010 $M	Non End Item Recurring Flyaway BY 2010 $M	Non Recurring Flyaway BY 2010 $M	Total Flyaway BY 2010 $M	Total Support BY 2010 $M	Total Program BY 2010 $M
2007	--	--	--	--	--	--	8.4
2008	--	--	--	--	--	--	108.6
2009	--	--	--	--	--	--	91.0
2010	--	--	--	--	--	--	18.0
2011	--	--	--	--	--	--	16.2
2012	--	--	--	--	--	--	9.5
2013	--	--	--	--	--	--	2.6
2014	--	--	--	--	--	--	5.5
2015	--	--	--	--	--	--	0.8
2016	--	--	--	--	--	--	18.9
Subtotal	**56**	**--**	**--**	**--**	**--**	**--**	**279.5**

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
2009	56	121.0	--	0.6	121.6	14.3	135.9
2010	248	402.1	--	36.0	438.1	29.0	467.1
2011	96	176.1	--	94.7	270.8	67.7	338.5
2012	546	725.4	--	11.8	737.2	90.1	827.3
2013	368	577.1	--	6.9	584.0	201.9	785.9
2014	482	730.3	--	41.7	772.0	210.6	982.6
2015	556	892.4	--	7.2	899.6	198.8	1098.4
2016	438	723.6	--	28.0	751.6	301.1	1052.7
2017	--	--	--	7.4	7.4	278.8	286.2
2018	--	--	--	7.6	7.6	195.6	203.2
Subtotal	**2790**	**4348.0**	**--**	**241.9**	**4589.9**	**1587.9**	**6177.8**

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 2010 $M	Non End Item Recurring Flyaway BY 2010 $M	Non Recurring Flyaway BY 2010 $M	Total Flyaway BY 2010 $M	Total Support BY 2010 $M	Total Program BY 2010 $M
2009	56	120.2	--	0.6	120.8	14.2	135.0
2010	248	392.1	--	35.1	427.2	28.3	455.5
2011	96	168.5	--	90.7	259.2	64.7	323.9
2012	546	682.4	--	11.1	693.5	84.7	778.2
2013	368	532.9	--	6.4	539.3	186.4	725.7
2014	482	662.6	--	37.8	700.4	191.1	891.5
2015	556	795.3	--	6.4	801.7	177.2	978.9
2016	438	633.5	--	24.5	658.0	263.6	921.6
2017	--	--	--	6.4	6.4	239.7	246.1
2018	--	--	--	6.4	6.4	165.3	171.7
Subtotal	**2790**	**3987.5**	**--**	**225.4**	**4212.9**	**1415.2**	**5628.1**

Low Rate Initial Production

	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	2009
End Year	2010	2011

The WIN-T Inc 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 Inc 2 program only procures 32 Army units through FY 2013**.**

The original LRIP quantity was reported to Congress in the September 2007 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 Inc 2 LRIP plan consists of a two year LRIP phase with quantities totaling 400 communications nodes. The Product Manager (PM) has received approval to exceed the 10% limit. 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.

The Milestone C was held on February 3, 2010 after which the program entered into LRIP. The initial LRIP quantities and costs were funded with FY 2009 dollars.

Foreign Military Sales

None.

Nuclear Cost

None.

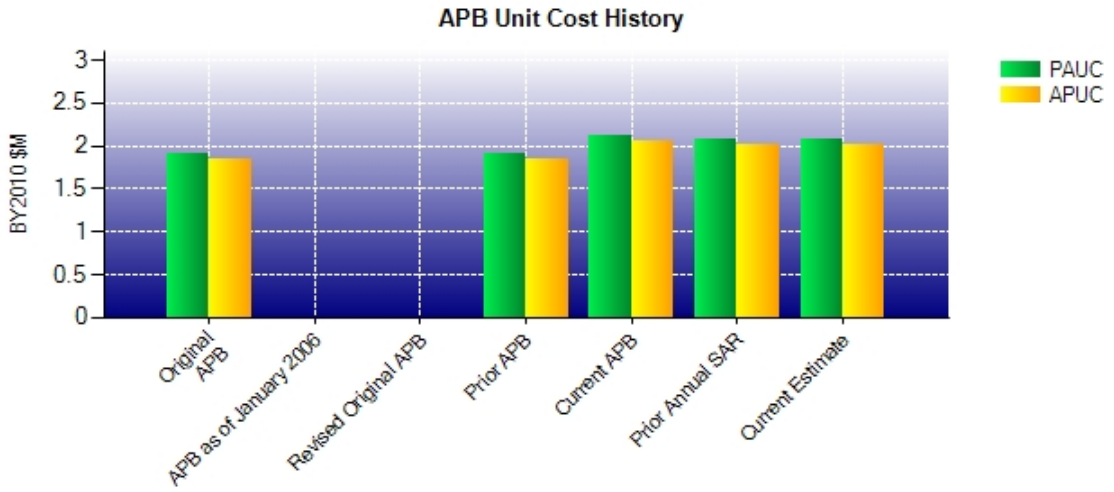
Unit Cost

Unit Cost Report

Unit Cost	BY2010 $M Current UCR Baseline (MAR 2010 APB)	BY2010 $M Current Estimate (DEC 2011 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4686.0	5907.6	
Quantity	2216	2846	
Unit Cost	2.115	2.076	-1.84
Average Procurement Unit Cost (APUC)			
Cost	4421.3	5628.1	
Quantity	2160	2790	
Unit Cost	2.047	2.017	-1.47

Unit Cost	BY2010 $M Original UCR Baseline (OCT 2007 APB)	BY2010 $M Current Estimate (DEC 2011 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	3617.2	5907.6	
Quantity	1893	2846	
Unit Cost	1.911	2.076	+8.63
Average Procurement Unit Cost (APUC)			
Cost	3384.5	5628.1	
Quantity	1837	2790	
Unit Cost	1.842	2.017	+9.50

Unit Cost History



		BY2010 $M		TY $M	
	Date	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 2010	2.070	2.015	2.232	2.179
Current Estimate	DEC 2011	2.076	2.017	2.270	2.214

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY $M)

Initial PAUC Dev Est	Changes								PAUC Prod Est
	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)

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
2.255	0.030	-0.154	-0.004	0.000	-0.028	0.000	0.171	0.015	2.270

Initial SAR Baseline to Current SAR Baseline (TY $M)

Initial APUC Dev Est	Changes								APUC Prod Est
	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

Current SAR Baseline to Current Estimate (TY $M)

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
2.190	0.030	-0.142	-0.004	0.000	-0.034	0.000	0.174	0.024	2.214

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	JUN 2007	N/A	JUN 2007
Milestone C	N/A	APR 2009	N/A	FEB 2010
IOC	N/A	AUG 2011	N/A	MAY 2013
Total Cost (TY $M)	N/A	3907.0	N/A	6461.3
Total Quantity	N/A	1893	N/A	2846
Prog. Acq. Unit Cost (PAUC)	N/A	2.064	N/A	2.270

Cost Variance

Cost Variance Summary

Summary Then Year $M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	266.5	4730.4	--	4996.9
Previous Changes				
Economic	+0.1	-3.2	--	-3.1
Quantity	--	+983.4	--	+983.4
Schedule	--	-13.2	--	-13.2
Engineering	--	--	--	--
Estimating	+7.3	-82.3	--	-75.0
Other	--	--	--	--
Support	--	+463.5	--	+463.5
Subtotal	+7.4	+1348.2	--	+1355.6
Current Changes				
Economic	+1.2	+87.3	--	+88.5
Quantity	--	--	--	--
Schedule	--	+2.1	--	+2.1
Engineering	--	--	--	--
Estimating	+8.4	-13.0	--	-4.6
Other	--	--	--	--
Support	--	+22.8	--	+22.8
Subtotal	+9.6	+99.2	--	+108.8
Total Changes	+17.0	+1447.4	--	+1464.4
CE - Cost Variance	283.5	6177.8	--	6461.3
CE - Cost & Funding	283.5	6177.8	--	6461.3

Summary Base Year 2010 $M				
	RDT&E	**Proc**	**MILCON**	**Total**
SAR Baseline (Prod Est)	264.7	4421.3	--	4686.0
Previous Changes				
Economic	--	--	--	--
Quantity	--	+879.1	--	+879.1
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+7.1	-82.1	--	-75.0
Other	--	--	--	--
Support	--	+402.2	--	+402.2
Subtotal	+7.1	+1199.2	--	+1206.3
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+7.7	-11.0	--	-3.3
Other	--	--	--	--
Support	--	+18.6	--	+18.6
Subtotal	+7.7	+7.6	--	+15.3
Total Changes	+14.8	+1206.8	--	+1221.6
CE - Cost Variance	279.5	5628.1	--	5907.6
CE - Cost & Funding	279.5	5628.1	--	5907.6

Previous Estimate: December 2010

RDT&E	$M	
Current Change Explanations	**Base Year**	**Then Year**
Revised escalation indices. (Economic)	N/A	+1.2
Cost decrease due to FY 2011 fact of life Revised Annual Program (RAP) Congressional adjustments. (Estimating)	-0.5	-0.6
Increase of Government test costs to support continued Inc 2 testing and the Follow-on Operational Test. (Estimating)	+9.0	+9.8
Adjustment for current and prior escalation. (Estimating)	-0.8	-0.8
RDT&E Subtotal	+7.7	+9.6

Procurement	$M	
Current Change Explanations	**Base Year**	**Then Year**
Revised escalation indices. (Economic)	N/A	+87.3
Realignment of Procurement and Fielding Schedule based on requirements moving from FY 2012 into FY 2014. (Schedule)	0.0	+2.1
Decrease in Hardware costs due to removal of the 4-Channel Joint Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (JC4ISR) Radio requirement and fewer JC4ISR Radio technical inserts required. (Estimating)	-59.3	-66.9
Increase in integration costs due to refinement of Platform Integration estimates. (Estimating)	+32.8	+34.9
Increase in recurring A-Kit costs due to addition of the Stryker Double-V Hull (DVH) and Mine Resistant Ambush Protected (MRAP) variants. (Estimating)	+16.3	+19.7
Increase in System Test and Evaluation (ST&E) costs due to refinement of estimates for Cold Region Test, Force Development Test and Evaluation (FDT&E), Initial Operational Test and Evaluation (IOT&E), and Follow-on testing. (Estimating)	+15.5	+16.6
Adjustment for current and prior escalation. (Estimating)	-16.3	-17.3
Adjustment for current and prior escalation. (Support)	-2.3	-2.3
Decrease in Other Support costs due to revision of the Software Support estimating methodology. (Support)	-54.3	-62.7
Increase due to the revision of spares costs for the A-Kits and Satellite Tactical Terminal + (STT+). (Support)	+75.2	+87.8
Procurement Subtotal	+7.6	+99.2

Contracts

Appropriation: Procurement	
Contract Name	**WIN-T Increment 2 Production**
Contractor	General Dynamics C4 Systems, Inc.
Contractor Location	Taunton, MA 02780-1036
Contract Number, Type	W15P7T-10-D-C007, FPIF/FFP
Award Date	March 24, 2010
Definitization Date	December 30, 2010

Initial Contract Price ($M)			Current Contract Price ($M)			Estimated Price At Completion ($M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
299.7	299.7	160	640.7	640.7	400	640.7	640.7

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FPIF/FFP contract.

Contract Comments

The difference between the initial contract price target and the current contract price target is due to the procurement of Lots 1B and 2, which equate to an an additional 240 units for Low Rate Initial Production (LRIP). In addition, contractor test effort support was added to the contract price.

Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	56	56	56	100.00%
Production	0	0	2790	0.00%
Total Program Quantities Delivered	56	56	2846	1.97%

Expenditures and Appropriations (TY $M)			
Total Acquisition Cost	6461.3	Years Appropriated	6
Expenditures To Date	985.4	Percent Years Appropriated	50.00%
Percent Expended	15.25%	Appropriated to Date	2021.1
Total Funding Years	12	Percent Appropriated	31.28%

Total expenditures to date reflects actual disbursements through December 31, 2011.

Operating and Support Cost

Assumptions And Ground Rules

1. Operating and support costs based on the annual update to the Inc 2 Program Office Estimate, as of January 23, 2012.
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 Inc 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 has been extended from 10 years to 20 years due to Configuration Steering Board direction.
13. Operating and support costs reflect the total average annual cost for WIN-T Inc 2 communications nodes. Multiplying the total average annual cost by 20 years and by 2790 communications nodes will achieve the total costs shown below.
14. There is no antecedent program to this system.

Costs BY2010 $M		
Cost Element	**WIN-T INCREMENT 2 Average Annual Cost per Communications Node**	**Antecedent System N/A**
Unit-Level Manpower	0.094	--
Unit Operations	0.002	--
Maintenance	0.061	--
Sustaining Support	0.006	--
Continuing System Improvements	0.025	--
Indirect Support	0.000	--
Other	0.003	--
Total Unitized Cost (Base Year 2010 $)	0.191	--

Total O&S Costs $M	WIN-T INCREMENT 2	Antecedent System
Base Year	10710.6	--
Then Year	14726.6	--

Total O&S Costs include demilitarization and disposal costs valued at $11.6 BY 2010 $M.