



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-360



Joint Tactical Radio System Ground Mobile Radio (formerly Cluster 1) (JTRS GMR)

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

Joint Tactical Radio System (JTRS) Ground Mobile Radios (GMR) (JTRS GMR)

DoD Component

DOD

Joint Participants

US Army; US Navy; US Air Force; US Marine Corps; Army is the lead Component per SECDEF Memo dated August 31, 2009

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Date

Assigned: August 28, 2009

References

SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated June 24, 2002

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated January 16, 2008

Mission and Description

The JTRS Ground Mobile Radio (GMR) will enable the Services to acquire and field a family of affordable, scaleable, high capacity, interoperable radio sets based on a common set of JTRS Application Programming Interfaces (APIs) developed IAW the JTRS Software Communications Architecture (SCA). JTRS GMR will provide networking capability using the Wideband Networking Waveform and Soldier Radio Waveform to connect unmanned sensors to decision makers "On-The-Move" (OTM), which will significantly reduce the decision cycle. JTRS GMR will provide the warfighter with mobile Internet-like capabilities such as voice, data, networking and video communications, as well as interoperability with current force and other JTRS radios across the battle space. The JTRS is a key enabler of the DOD and Army Transformation and will provide critical communications capabilities across the full spectrum of operations in a Joint environment. It is a Joint program encompassing the incorporation of the JTRS Network Enterprise Domain (NED) developed waveforms (porting) and Ground Vehicular applications.

Executive Summary

The requirement for the Joint Tactical Radio System (JTRS) is documented in the Mission Needs Statement (MNS) for the Joint Tactical Radio (JTR), dated August 21, 1997. The JTRS Ground Mobile Radios (GMR) development was designated an Acquisition Category 1D (ACAT 1D) program at Milestone (MS) B and following full and open competition, a Cost Plus Award Fee (CPAF) contract was awarded to the Prime System Contractor (PSC) on June 24, 2002. The acquisition strategy called for a PSC who would select and qualify two sources for production of GMRs. These two sources will develop and build the radios to meet the requirements of the JTRS Operational Requirements Document (ORD).

As part of the JTRS Enterprise reorganization directed by the March 31, 2006 Acquisition Decision Memorandum (ADM), the GMR program was restructured as JTRS GMR Increment 1 and is compliant with the JTRS ORD version 3.2.1, dated August 28, 2006. Army Aviation Rotary Wing (AARW) and Air Force Tactical Air Control Party (TACP) requirements were removed from the JTRS GMR program and allocated to another JTRS program. A new Acquisition Program Baseline (APB) was signed by the Defense Acquisition Executive on January 16, 2008, and the modified contract was executed on May 23, 2008.

In early 2008, the GMR Program Office projected a six month schedule slip and associated cost increases for Fiscal Years 08-10 due to required modifications to the GMR Public Key Infrastructure (PKI) approach, changes to the Waveform Interface Software (WIS) implementation, increased Soldier Radio Waveform (SRW) porting costs and the impact of non-waveform software, waveform and hardware integration challenges. The Program Manager along with representatives of the Boeing Company, presented alternatives to address the future year shortfalls to Under Secretary of Defense Acquisition Technology and Logistics (USD AT&L) on August 02, 2008. As a result, USD AT&L issued an ADM on September 05, 2008 directing that the significant technical, cost or schedule challenges were to be fully funded and properly scheduled to reduce risk; to update the GMR Program Office Estimate (POE) estimate; and to reinstate the High Frequency (HF) and Ultra High Frequency (UHF) Demand Assigned Multiple Access (DAMA) Satellite Communications (SATCOM) capabilities previously deferred due to funding constraints. The ADM also returned the acquisition oversight to the Defense Acquisition Board (DAB) and Overarching Integrated Product Team (OIPT) process. On August 31, 2009, the Department of Army was designated the lead acquisition component for the JTRS program.

As directed by the September 2008 ADM, the program office has updated the POE to reflect revised unit cost information gained while producing Engineering Development Model (EDM) radios. Unit costs are now lower than those included in the previously approved January 2008 APB. A revised APB is currently being staffed with final approval expected in Fiscal Year (FY) 10. This APB includes the impacts associated with PKI, WIS, and SRW porting to GMR

Reinstating the HF and UHF DAMA SATCOM capabilities into the GMR program in FY08 caused a two month slip to system development activities. In 2009, a four month schedule increase was realized as a result of the software and hardware integration challenges predicted in 2008. The cumulative effect is a six month delay to the completion of Production Qualification Test (PQT) and all subsequent events including the Limited User Test (LUT), Milestone (MS) C approval, Low Rate Initial Production (LRIP) award, Multi-Service Operational Test and Evaluation (MOT&E), Initial Operation Capability (IOC) and Full Rate Production (FRP) decision. While conducting LRIP planning and review of the initial GMR Increment 1 Acquisition Strategy, the program office determined that an additional five months were needed between the LRIP contract award and the start of MOTE. This schedule is necessary to provide the procurement and production lead time to test and deliver sufficient assets to execute the MOTE. Cost impacts have been assessed and resourced at the JTRS Joint Program Executive Office (JPEO) level.

The GMR program met a major milestone with the shipment of the first two EDM radios on September 17, 2008. The GMR Program has since produced 28 EDM sets to support qualification testing and delivered 30 EDM sets to the Program Executive Office – Integration (PEO-I) to support their LUT-2010 activities. During 2010 the program will complete delivery of the 91 sets for GMR testing and 153 sets to PEO-I. Of the latter, 85 EDM sets are scheduled to be fielded early to the first PEO-I Increment 1 Infantry Brigade Combat Team (IIBCT) in 2011. The 153 EDM radios were purchased by the PEO-I Lead System Integrator from Boeing GMR. The cost and quantity associated with this acquisition are not part of the GMR unit cost baseline.

In 2009, GMR conducted Functional Qualification Testing (FQT) porting Single Channel Ground and Airborne Radio System (SINCGARS) waveform, Enhanced Position Location Reporting System (EPLRS) waveform, UHF DAMA SATCOM waveform, and begun FQT for the GMR Operating Environment (OE). The SRW and the JTRS WNW Network Manager (JWNM) FQT is scheduled to be complete in early 2010.

The GMR Program is executing in accordance with the JTRS GMR Increment 1 Acquisition Strategy which emphasizes field experimentation and testing. The JTRS GMR program successfully conducted or supported numerous field tests in 2008 and 2009 including Field Experiment - 4 (FE-4), Future Combat Systems (FCS) Spin-Out Pre-LUT (2008) and the FCS IBCT-E LUT (2009). Both FE4 and the FCS LUT tested 12 Pre-EDM nodes in extensive Over-the-Air (OTA) operations. Together the tests demonstrated the GMR OE, WNW, SINCGARS, SRW and the JWNM. Tests included mobility using High Mobility Multipurpose Wheeled Vehicles (HMMWVs). System throughput and range requirements were achieved in the tests. The GMR Program Office and PEO-I have also begun testing production representative EDM hardware. The FCS LUT included 4 GMR EDM radios operating SINCGARS and WNW waveforms and GMR PMO completed the EDM Field Integration -1 (EF1) test. EF12 and 3 are now in progress. Test and Evaluation (T&E) activities will continue through FY10 with the PQT, SIT and LUT leading to a MS C decision in 2QFY11.

The GMR Program Office is awaiting final confirmation that the unit under test for the GMR LUT has been identified and tasked. The Army Evaluation Task Force (AETF) is the unit supporting the PEO-I Increment 1 LUT and is the preferred unit to support GMR. Assigning a different test unit will impact cost and schedule to the GMR program. This delay would also preclude the planned LRIP contract award in FY11.

On August 28, 2009, a Change of Charter ceremony took place establishing Colonel Gregory Fields as the GMR Program Manager (PM).

The GMR Program Office remains focused on the security challenges inherent with software defined radios capable of processing multiple security levels of voice and data deployed in tactical units with connectivity to strategic defense networks. The National Security Agency (NSA) has concurred with the GMR design and is in the process of reviewing final documentation and code in preparation for the FY10 Security Verification Test (SVT). At the conclusion of a successful SVT, NSA will issue a certification for the GMR system including the waveforms, operating environment and network manager.

The PM continues to monitor cost, schedule and performance very closely as the contractor concludes the GMR development effort this year. Integration, qualification and verification of software and EDM hardware are continuing challenges that have the potential to negatively impact schedule.

There are no significant software issues with the program as of this report.

Threshold Breaches

APB Breaches		Explanation of Breach
Schedule	<input type="checkbox"/>	The Program Manager (PM) submitted a Program Deviation Report (PDR) to the Office the Secretary Defense (OSD) in December 2008, indicating that the program would experience a total RDT&E cost threshold breach. Factors contributing to this breach include architecture design modifications to the Waveform Interface Software (WIS), changes to the Public Key Infrastructure (PKI) approach, and cost growth related to hardware and software integration challenges. Additionally, the Soldier Radio Waveform (SRW) porting integration and development proposal exceeded Increment 1 baseline estimate. Funding to address these issues has been provided as part of Program Decision Memorandum (PDM) III.
Performance	<input type="checkbox"/>	
Cost	<input checked="" type="checkbox"/>	
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	<input type="checkbox"/>	
PAUC	<input type="checkbox"/>	
APUC	<input type="checkbox"/>	

Nunn-McCurdy Breaches

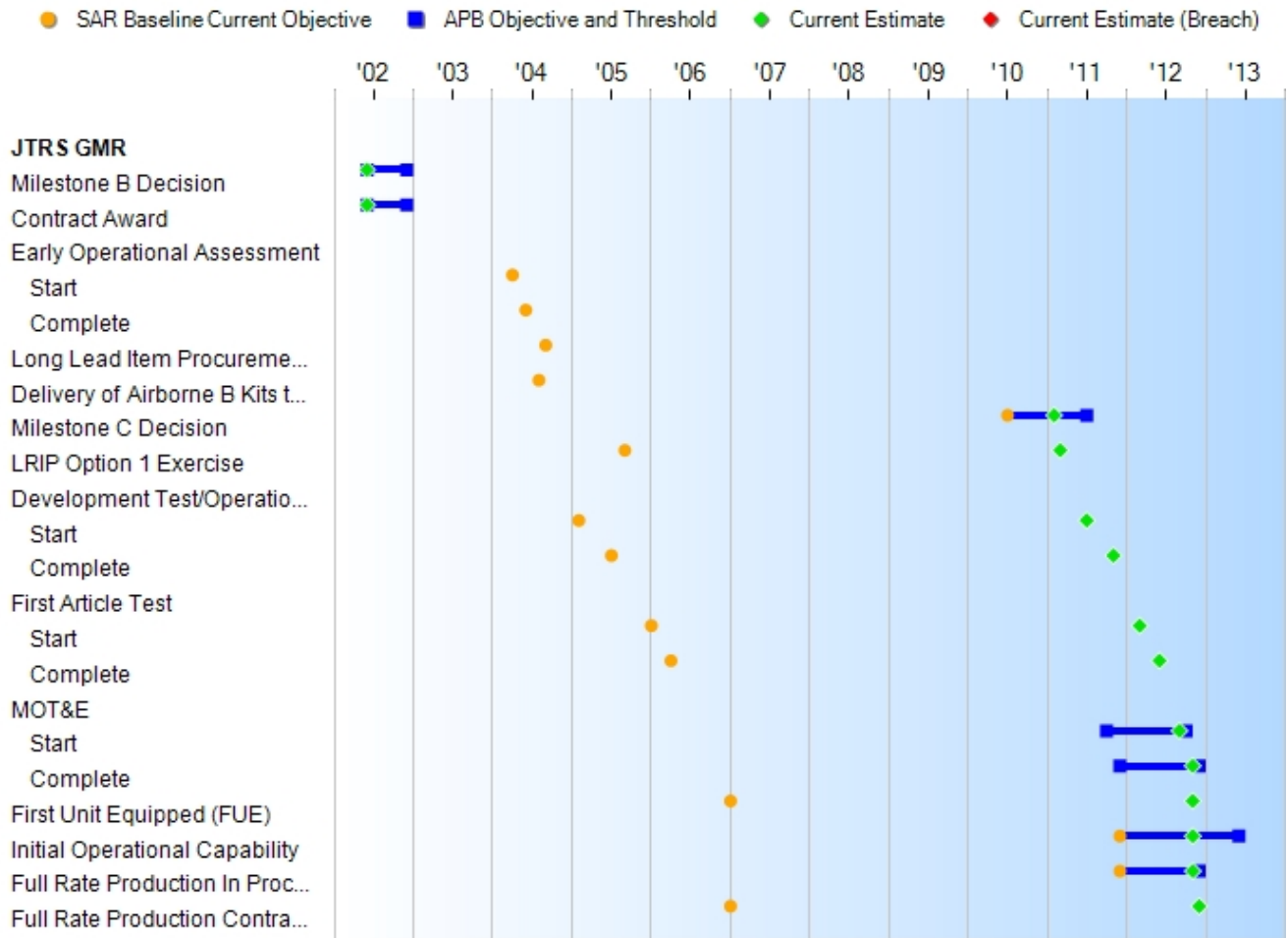
Current UCR Baseline

PAUC None
 APUC None

Original UCR Baseline

PAUC None
 APUC None

Schedule



Schedule Events					
Events	SAR Baseline Development Estimate	Current APB Development Objective/Threshold		Current Estimate	
Milestone B Decision	Jun 2002	Jun 2002	Dec 2002	Jun 2002	
Contract Award	Jun 2002	Jun 2002	Dec 2002	Jun 2002	
Early Operational Assessment					
Start	Apr 2004	N/A	N/A	N/A	
Complete	Jun 2004	N/A	N/A	N/A	
Long Lead Item Procurement Option 1 Approval OIPT	Sep 2004	N/A	N/A	N/A	
Delivery of Airborne B Kits to Aviation for Airworthiness Certification and Integration	Aug 2004	N/A	N/A	N/A	
Milestone C Decision	Aug 2005	Jul 2010	Jul 2011	Feb 2011	(Ch-1)
LRIP Option 1 Exercise	Sep 2005	N/A	N/A	Mar 2011	(Ch-2)
Development Test/Operational Test/Limited User Test					
Start	Feb 2005	N/A	N/A	Jul 2011	(Ch-2)
Complete	Jul 2005	N/A	N/A	Nov 2011	(Ch-2)
First Article Test					
Start	Jan 2006	N/A	N/A	Mar 2012	(Ch-2)
Complete	Apr 2006	N/A	N/A	Jun 2012	(Ch-2)
MOT&E					
Start	Aug 2006	Oct 2011	Oct 2012	Sep 2012	(Ch-1)
Complete	Oct 2006	Dec 2011	Dec 2012	Nov 2012	(Ch-1)
First Unit Equipped (FUE)	Jan 2007	N/A	N/A	Nov 2012	(Ch-2)
Initial Operational Capability	N/A	Dec 2011	Jun 2013	Nov 2012	(Ch-1)
Full Rate Production In Process Review	Feb 2007	Dec 2011	Dec 2012	Nov 2012	(Ch-1)
Full Rate Production Contract Award	Jan 2007	N/A	N/A	Dec 2012	(Ch-2)

Change Explanations

(Ch-1) There was a six month delay to the completion of Production Qualification Testing which was prompted by the four month 2009 schedule increase realized because of the software and hardware integration challenges predicted in 2008; all subsequent events, including Milestone C approval, Multi-Service Operational Test and Evaluation, Initial Operational Capability and Full Rate Production, are also delayed by six months.

(Ch-2) This schedule item was previously listed as N/A in the Current Estimate; this item now has a date entered into the Current Estimate field.

Notes

The USD ATL signed the JTRS GMR Acquisition Program Baseline (APB) on January 16, 2008. Current estimate

milestones identified with "N/A" have been deleted from the current APB.

Acronyms and Abbreviations

LRIP - Low Rate Initial Production

MOT&E - Multi-Service Operational Test and Evaluation

OIPT - Overarching Integrated Product Team

Performance

Performance Characteristics				
SAR Baseline Development Estimate	Current APB Development Objective/Threshold	Demonstrated Performance	Current Estimate	
Have an internal growth capability				
Open System Architecture IAW JTA; Modular, Scaleable, Flexible Form Factors	Open system architecture in accordance with DISR; Modular, Scaleable, Flexible Form Factors	Open system architecture in accordance with DISR; Modular, Scaleable, Flexible Form Factors	TBD	Open system architecture in accordance with DOD Information Technology (IT) Standards Registry (DISR); Modular, Scaleable, Flexible Form Factors
JTR set modes/capabilities configuration and reconfiguration via software				
By operators in their operational environment	By operators in their operational environment	By operators in their operational environment	TBD	By operators in their operational environment
Multi-channel routing and retransmission				
Objective waveforms that are compatible in mode (voice, data, or video) and use compatible data rates	Objective waveforms that are same in mode (voice, data, or video) and use like data rates and operate at permissible security classification levels	KPP waveforms that are same in mode (voice, data, or video) and use like data rates and operate at permissible security classification levels	TBD	KPP waveforms that are same in mode (voice, data, or video) and use like data rates and operate at permissible security classification levels
Support time-critical waveforms				
SINCGARS ESIP (MIL-STD188-220) HAVE QUICK II UHF DAMA SATCOM (MIL-STD 188-181) w/EPLRS WNW (new, modified or existing waveform) and non-KPP LINK-16 (-) for TACP	See Annexes D and F of ORD 3.2.1	See Annexes D and F of ORD 3.2.1	TBD	See Annexes D and F of ORD 3.2.1
Operate on designated number of channels at the same time				
GPS+8 (Vehicular), GPS+10 (Airborne)	8 Vehicular	4 Vehicular	TBD	GPS+4 (Vehicular)
Scaleable networking services				

Maritime/Fix-ed Domain	All Domains	All Domains	TBD	All Domains
Network extension/coverage				
Across Organization-al boundaries	Across organization-al boundaries	Across organization-al boundaries	TBD	Across organizational boundaries
JTR System network interoperability				
Inter-operate with Allied/Coalition and commercial networks; satisfy 100% of top-level IERs	100% of interfaces; services; policy-enforcement controls; and data correctness, availability and processing requirements in the Joint integrated architecture	100% of interfaces; services; policy-enforcement controls; and data correctness, availability and processing requirements designated as enterprise -level or critical in the Joint integrated architecture	TBD	100% percent of interfaces; services; policy-enforcement controls; and data correctness, availability and processing requirements designated as enterprise-level or critical in the Joint integrated architecture.
Operational Availability (Ao)				
0.99 Channel / 0.96 (Set)	0.99 Channel/0.96 (Set)	0.96 Channel	TBD	0.96 (Channel)
Net Ready (NR) capability				
N/A	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 TV1 2) DISR mandated GIG KIPs identified in the KIP declaration (Table 31) 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an ATO by the DAA 5) Operationally effective information exchanges; and mission	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 TV1 2) DISR mandated GIG KIPs identified in the KIP declaration (Table 31) 3) NCOW RM Enterprise Services 4) IA requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an IATO by the DAA 5) Operationally effective information exchanges; and mission	TBD	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 TV1 2) DISR mandated GIG KIPs identified in the KIP declaration (Table 31) 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and nonrepudiation, and issuance of an Interim Approval to Operate (IATO) by the Designated Approval Authority (DAA) 5) Operationally effective information exchanges; and

	critical performance and IA attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views	critical performance and IA attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views		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.
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Requirements Reference

Increment 1 JTRS Ground Mobile Radio (GMR) Performance Requirements for Increment 1 are based on JROCM 131-06 dated June 29, 2006 and JROCM 171-06 dated August 28, 2006. The JROCM 131-06 mandated the NR KPP and JROCM 171-06 approved the ORD version 3.2

Change Explanations

None

Notes

Increment 1 JTRS Ground Mobile Radio (GMR) Performance Requirements are based on JROCM 131-06 dated June 29, 2006 and Joint Requirements Oversight Council Memorandum (JROCM) 171-06 dated August 28, 2006. The JROCM 131-06 mandated the Net Ready Key Performance Parameters (NR KPP) and JROCM 171-06 approved the Operational Requirements Document (ORD) Version 3.2.1. NR KPP language as required by CJCSI 6212.01D dated March 8, 2006.

Acronyms and Abbreviations

ATO - Authority To Operate
DAA - Designated Approving Authority
DAMA - Demand Assigned Multiple Access
DISR - DoD Information Technology Standards Registry
EPLRS - Enhanced Position Location Reporting System
ESIP - Enhanced SINCGARS Improvement Program
GIG - Global Information Grid
GPS - Global Positioning System
IA - Information Assurance
IATO - Interim Authority To Operate
IAW - In Accordance With
IER - Information Exchange Requirement
IT - Information Technology
JTA - Joint Technical Architecture
JTR - Joint Tactical Radio
KIP - Key Interface Profile
KPP - Key Performance Parameters
MIL-STD - Military Standard
NCOW-RM - Net Centric Operations and Warfare - Reference Model
ORD - Operational Requirements Document
SATCOM - Satellite Communications
SINCGARS - Single Channel Ground and Airborne Radio System
TACP - Tactical Air Control Party
TBD - To Be Determined
TV - Technical View
UHF - Ultra High Frequency
WNW - Wideband Networking Waveform

Track to Budget

RDT&E

Appn	BA	PE	
Army	2040	05	0604280A
	Project	Name	
	162	JTRS/Ground Mobile Radio (Shared)	
Air Force	3600	05	0604280F
	Project	Name	
	5068	JTRS/Ground Mobile Radio (Shared)	
Navy	1319	05	0604280N
	Project	Name	
	3074	JTRS/Ground Mobile Radio (Shared)	
Army	2040	05	0604805A
	Project	Name	
	D615	Command, Project 615 Control, Comm Systems - Eng Dev/JTRS- Ground Domain Integration (Shared) (Sunk)	
Navy	1319	05	0604280N
	Project	Name	
	9999	Army Tactical Radios for PEO Integration (Shared)	

Notes

The JTRS Common RDT&E funding is consolidated under one Navy Program Element (PE 0604280N) in the execution and budget years (FY10-FY11). Army Program Element (PE 0604280A) and Air Force Program Element (PE 0604280F) represent outyear funding. Army Program Element (PE 06048505A) represents prior year funding.

Procurement

Appn	BA	PE	
Army	2035	02	
	Line Item	Name	
	B90100	JTRS GMR (Shared)	
	G86100	Future Combat System (FCS) (Shared)	
Air Force	3080	02	0207423F
	Line Item	Name	
	837100	Air Force Procurement (Shared)	
Navy	1109	02	0206313M
	Line Item	Name	
	4633	Marine Corps Communication Equipment / Radio Systems (Shared)	

Cost and Funding

Cost Summary

Total Acquisition Cost							
Appropriation	BY 2002 \$M			BY 2002 \$M	TY \$M		
	SAR Baseline Development Estimate	Current APB Development Objective/Threshold		Current Estimate	SAR Baseline Development Estimate	Current APB Development Objective	Current Estimate
RDT&E	845.1	1209.8	1330.9	1427.6 ¹	901.1	1356.7	1616.2
Procurement	13592.1	13060.9	14367.1	11918.7	18211.8	19387.1	17514.5
Flyaway	--	--	--	10384.6	--	--	15261.2
Recurring	--	--	--	10375.4	--	--	15250.0
Non Recurring	--	--	--	9.2	--	--	11.2
Support	--	--	--	1534.1	--	--	2253.3
Other Support	--	--	--	661.0	--	--	968.4
Initial Spares	--	--	--	873.1	--	--	1284.9
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	14437.2	14270.7	N/A	13346.3	19112.9	20743.8	19130.7

¹ APB Breach

Cost Notes

Total Quantity			
Quantity	SAR Baseline Development Estimate	Current APB Development	Current Estimate
RDT&E	302	140	131
Procurement	108086	86512	86948
Total	108388	86652	87079

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	1283.0	202.7	101.4	18.7	7.3	2.9	0.2	0.0	1616.2
Procurement	0.0	0.0	150.4	221.7	273.4	303.5	306.3	16259.2	17514.5
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 2011 Total	1283.0	202.7	251.8	240.4	280.7	306.4	306.5	16259.2	19130.7
PB 2009 Total	1202.3	172.3	38.6	78.5	685.9	424.8	427.4	17506.6	20536.4
Delta	80.7	30.4	213.2	161.9	-405.2	-118.4	-120.9	-1247.4	-1405.7

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	131	0	0	0	0	0	0	0	0	131
Production	0	0	0	321	531	714	887	934	83561	86948
PB 2011 Total	131	0	0	321	531	714	887	934	83561	87079
PB 2009 Total	140	0	62	5	63	1673	1140	1195	82374	86652
Delta	-9	0	-62	316	468	-959	-253	-261	1187	427

Cost and Funding

Annual Funding By Appropriation

Annual Funding							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2007	--	--	--	--	--	--	202.9
2008	--	--	--	--	--	--	262.8
2009	--	--	--	--	--	--	245.8
2010	--	--	--	--	--	--	202.7
2011	--	--	--	--	--	--	101.4
2012	--	--	--	--	--	--	6.0
2013	--	--	--	--	--	--	2.3
2014	--	--	--	--	--	--	0.9
Subtotal	91	--	--	--	--	--	1024.8

Annual Funding							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 2002 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2007	--	--	--	--	--	--	178.1
2008	--	--	--	--	--	--	226.5
2009	--	--	--	--	--	--	209.4
2010	--	--	--	--	--	--	170.8
2011	--	--	--	--	--	--	84.3
2012	--	--	--	--	--	--	4.9
2013	--	--	--	--	--	--	1.8
2014	--	--	--	--	--	--	0.7
Subtotal	91	--	--	--	--	--	876.5

Sunk costs associated with the original Joint Tactical Radio System (JTRS) Ground Mobile Radios (GMR) (formerly, Cluster 1) Acquisition Program Baseline (APB) from 2002 for the United States Marine Corps (USMC) program development have been removed from the current estimate. Similarly, these costs are not included in the JTRS GMR APB which was signed on January 16, 2008.

The JTRS Common RDT&E funding was consolidated under one Navy Program Element (PE-0604280N) in the execution and budget years(FY10-11) to consolidate execution under one Military Department (MILDEP).

Annual Funding							
2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2002	--	--	--	--	--	--	49.6
2003	--	--	--	--	--	--	87.8
2004	--	--	--	--	--	--	169.8
2005	--	--	--	--	--	--	97.2
2006	--	--	--	--	--	--	167.1
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	6.4
2013	--	--	--	--	--	--	2.5
2014	--	--	--	--	--	--	1.0
2015	--	--	--	--	--	--	0.1
Subtotal	40	--	--	--	--	--	581.5

Annual Funding 2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	BY 2002 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2002	--	--	--	--	--	--	49.1
2003	--	--	--	--	--	--	85.3
2004	--	--	--	--	--	--	161.0
2005	--	--	--	--	--	--	89.6
2006	--	--	--	--	--	--	149.9
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	5.2
2013	--	--	--	--	--	--	2.0
2014	--	--	--	--	--	--	0.8
2015	--	--	--	--	--	--	0.1
Subtotal	40	--	--	--	--	--	543.0

The Joint Tactical Radio System (JTRS) Common RDT&E funding was consolidated under one Navy Program Element (PE-0604280N) in the execution and budget years (FY10-FY11) to consolidate execution under one Military Department (MILDEP).

Annual Funding							
3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2012	--	--	--	--	--	--	6.3
2013	--	--	--	--	--	--	2.5
2014	--	--	--	--	--	--	1.0
2015	--	--	--	--	--	--	0.1
Subtotal	--	--	--	--	--	--	9.9

Annual Funding 3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	BY 2002 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2012	--	--	--	--	--	--	5.2
2013	--	--	--	--	--	--	2.0
2014	--	--	--	--	--	--	0.8
2015	--	--	--	--	--	--	0.1
Subtotal	--	--	--	--	--	--	8.1

Sunk costs associated with the original Joint Tactical Radio System (JTRS) Ground Mobile Radios (GMR) (formerly, Cluster 1) Acquisition Program Baseline (APB) from 2002 for the Air Force Tactical Air Control Party (TACP) program have been removed from the current estimate. Similarly, these costs are not included in the JTRS GMR APB which was signed on January 16, 2008.

The JTRS Common RDT&E funding was consolidated under one Navy Program Element (PE-0604280N) in the execution and budget years(FY10-FY11) to consolidate execution under one Military Department (MILDEP).

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
2011	301	117.9	--	11.2	129.1	12.7	141.8
2012	478	169.9	--	--	169.9	33.4	203.3
2013	659	211.9	--	--	211.9	44.0	255.9
2014	861	251.8	--	--	251.8	43.8	295.6
2015	893	250.3	--	--	250.3	44.0	294.3
2016	648	185.8	--	--	185.8	37.3	223.1
2017	667	189.1	--	--	189.1	38.6	227.7
2018	450	127.2	--	--	127.2	32.9	160.1
2019	8125	1553.7	--	--	1553.7	200.2	1753.9
2020	8125	1441.3	--	--	1441.3	187.7	1629.0
2021	8124	1382.9	--	--	1382.9	181.9	1564.8
2022	8125	1348.3	--	--	1348.3	178.6	1526.9
2023	8125	1327.5	--	--	1327.5	176.8	1504.3
2024	8125	1313.3	--	--	1313.3	198.3	1511.6
2025	8125	1304.8	--	--	1304.8	198.2	1503.0
2026	8126	1299.3	--	--	1299.3	198.7	1498.0
2027	8126	1297.9	--	--	1297.9	200.0	1497.9
2028	8126	1295.9	--	--	1295.9	200.8	1496.7
Subtotal	86209	15068.8	--	11.2	15080.0	2207.9	17287.9

Annual Funding 2035 Procurement Other Procurement, Army							
Fiscal Year	Quantity	BY 2002 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2011	301	97.0	--	9.2	106.2	10.5	116.7
2012	478	137.5	--	--	137.5	27.0	164.5
2013	659	168.6	--	--	168.6	35.0	203.6
2014	861	197.0	--	--	197.0	34.3	231.3
2015	893	192.6	--	--	192.6	33.8	226.4
2016	648	140.5	--	--	140.5	28.3	168.8
2017	667	140.7	--	--	140.7	28.7	169.4
2018	450	93.0	--	--	93.0	24.1	117.1
2019	8125	1117.3	--	--	1117.3	144.0	1261.3
2020	8125	1019.2	--	--	1019.2	132.7	1151.9
2021	8124	961.5	--	--	961.5	126.5	1088.0
2022	8125	921.8	--	--	921.8	122.1	1043.9
2023	8125	892.4	--	--	892.4	118.9	1011.3
2024	8125	868.1	--	--	868.1	131.1	999.2
2025	8125	848.1	--	--	848.1	128.8	976.9
2026	8126	830.4	--	--	830.4	127.0	957.4
2027	8126	815.6	--	--	815.6	125.7	941.3
2028	8126	800.8	--	--	800.8	124.0	924.8
Subtotal	86209	10242.1	--	9.2	10251.3	1502.5	11753.8

Army procurement quantities are reflective of what is required on the Joint Tactical Radio System (JTRS) Ground Mobile Radios (GMR) Increment 1 radio program.

Annual Funding								
3080 Procurement Other Procurement, Air Force								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2011	10	4.1	--	--	4.1	0.5	4.6	
2012	40	12.3	--	--	12.3	1.5	13.8	
2013	43	12.2	--	--	12.2	1.4	13.6	
Subtotal	93	28.6	--	--	28.6	3.4	32.0	

Annual Funding 3080 Procurement Other Procurement, Air Force							
Fiscal Year	Quantity	BY 2002 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2011	10	3.4	--	--	3.4	0.4	3.8
2012	40	10.1	--	--	10.1	1.2	11.3
2013	43	9.8	--	--	9.8	1.2	11.0
Subtotal	93	23.3	--	--	23.3	2.8	26.1

Annual Funding								
1109 Procurement Procurement, Marine Corps								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2011	10	3.6	--	--	3.6	0.4	4.0	
2012	13	4.1	--	--	4.1	0.5	4.6	
2013	12	3.5	--	--	3.5	0.4	3.9	
2014	26	7.1	--	--	7.1	0.8	7.9	
2015	41	10.7	--	--	10.7	1.3	12.0	
2016	45	11.5	--	--	11.5	1.7	13.2	
2017	61	15.5	--	--	15.5	2.2	17.7	
2018	61	15.4	--	--	15.4	2.2	17.6	
2019	61	14.5	--	--	14.5	2.5	17.0	
2020	61	13.6	--	--	13.6	2.9	16.5	
2021	61	13.1	--	--	13.1	3.2	16.3	
2022	61	12.8	--	--	12.8	3.8	16.6	
2023	54	11.1	--	--	11.1	3.7	14.8	
2024	42	8.6	--	--	8.6	3.8	12.4	
2025	17	3.5	--	--	3.5	3.7	7.2	
2026	10	2.0	--	--	2.0	4.1	6.1	
2027	10	2.0	--	--	2.0	4.8	6.8	
Subtotal	646	152.6	--	--	152.6	42.0	194.6	

Annual Funding 1109 Procurement Procurement, Marine Corps							
Fiscal Year	Quantity	BY 2002 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2011	10	3.0	--	--	3.0	0.3	3.3
2012	13	3.3	--	--	3.3	0.4	3.7
2013	12	2.8	--	--	2.8	0.3	3.1
2014	26	5.5	--	--	5.5	0.7	6.2
2015	41	8.2	--	--	8.2	1.0	9.2
2016	45	8.7	--	--	8.7	1.3	10.0
2017	61	11.5	--	--	11.5	1.6	13.1
2018	61	11.2	--	--	11.2	1.6	12.8
2019	61	10.4	--	--	10.4	1.8	12.2
2020	61	9.6	--	--	9.6	2.0	11.6
2021	61	9.1	--	--	9.1	2.2	11.3
2022	61	8.7	--	--	8.7	2.6	11.3
2023	54	7.4	--	--	7.4	2.5	9.9
2024	42	5.7	--	--	5.7	2.5	8.2
2025	17	2.3	--	--	2.3	2.4	4.7
2026	10	1.3	--	--	1.3	2.6	3.9
2027	10	1.3	--	--	1.3	3.0	4.3
Subtotal	646	110.0	--	--	110.0	28.8	138.8

Low Rate Initial Production

At the Milestone B, Low Rate Initial Production (LRIP) was not to exceed ten percent (10%) of total Production for all Services. Specific quantity amounts will be identified at the Milestone C.

Foreign Military Sales

None

Nuclear Costs

None

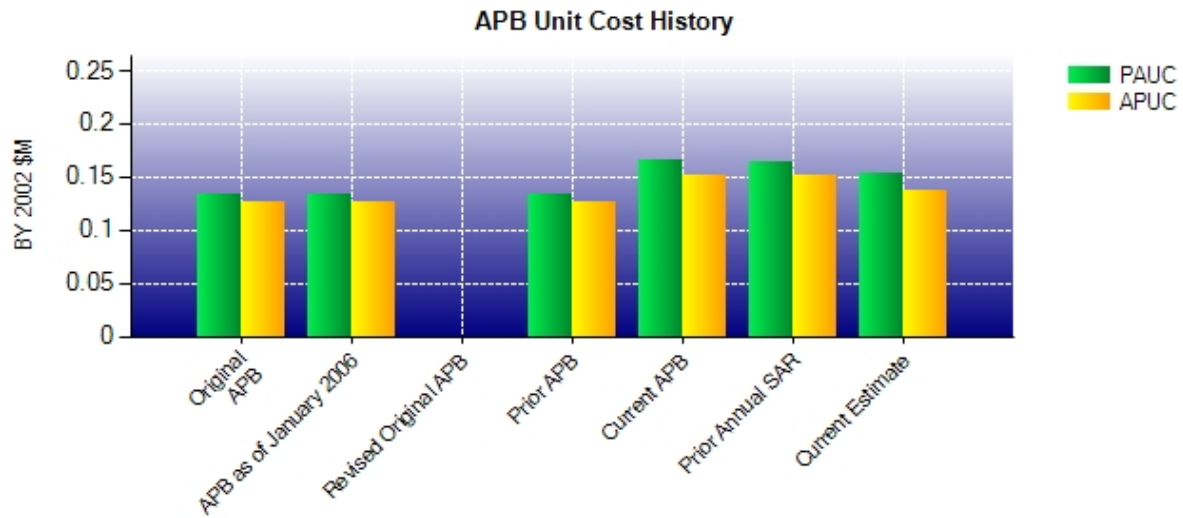
Unit Cost

Unit Cost Report

Item	BY 2002 \$M	BY 2002 \$M	% Change
	Current UCR Baseline (Jan 2008 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	14270.7	13346.3	
Quantity	86652	87079	
Item	0.165	0.153	-7.27
Average Procurement Unit Cost			
Cost	13060.9	11918.7	
Quantity	86512	86948	
Unit Cost	0.151	0.137	-9.27

Item	BY 2002 \$M	BY 2002 \$M	% Change
	Original UCR Baseline (Jun 2002 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	14437.2	13346.3	
Quantity	108388	87079	
Unit Cost	0.133	0.153	+15.04
Average Procurement Unit Cost			
Cost	13592.1	11918.7	
Quantity	108086	86948	
Unit Cost	0.126	0.137	+8.73

Unit Cost History



Item	Date	BY 2002 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Jun 2002	0.133	0.126	0.176	0.168
APB as of January 2006	Jun 2002	0.133	0.126	0.176	0.168
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Jun 2002	0.133	0.126	0.176	0.168
Current APB	Jan 2008	0.165	0.151	0.239	0.224
Prior Annual SAR	Dec 2007	0.164	0.151	0.237	0.222
Current Estimate	Dec 2009	0.153	0.137	0.220	0.201

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	
0.176	0.000	0.011	0.027	0.000	0.007	0.000	-0.001	0.044	0.220

Current SAR Baseline to Current Estimate (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.168	0.000	0.006	0.023	0.002	0.003	0.000	-0.001	0.033	0.201

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 2002	N/A	Jun 2002
Milestone C	N/A	Aug 2005	N/A	Feb 2011
IOC	N/A	N/A	N/A	Nov 2012
Total Cost (TY \$M)	N/A	19112.9	N/A	19130.7
Total Quantity	N/A	108388	N/A	87079
PAUC	N/A	0.176	N/A	0.220

Cost Variance

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	901.1	18211.8	--	19112.9
Previous Changes				
Economic	+23.9	+855.5	--	+879.4
Quantity	+9.3	-3029.3	--	-3020.0
Schedule	+392.2	+1096.2	--	+1488.4
Engineering	-126.6	+139.0	--	+12.4
Estimating	+150.6	+1667.2	--	+1817.8
Other	--	--	--	--
Support	--	+245.5	--	+245.5
Subtotal	+449.4	+974.1	--	+1423.5
Current Changes				
Economic	-3.3	-888.9	--	-892.2
Quantity	--	+74.1	--	+74.1
Schedule	--	+888.9	--	+888.9
Engineering	--	+0.8	--	+0.8
Estimating	+269.0	-1441.0	--	-1172.0
Other	--	--	--	--
Support	--	-305.3	--	-305.3
Subtotal	+265.7	-1671.4	--	-1405.7
Total Changes	+715.1	-697.3	--	+17.8
Current Estimate	1616.2	17514.5	--	19130.7

Summary BY 2002 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	845.1	13592.1	--	14437.2
Previous Changes				
Economic	--	--	--	--
Quantity	+8.8	-1874.5	--	-1865.7
Schedule	+346.4	+18.0	--	+364.4
Engineering	-105.2	+32.5	--	-72.7
Estimating	+105.9	+1200.1	--	+1306.0
Other	--	--	--	--
Support	--	+73.9	--	+73.9
Subtotal	+355.9	-550.0	--	-194.1
Current Changes				
Economic	--	--	--	--
Quantity	--	+51.4	--	+51.4
Schedule	--	+5.7	--	+5.7
Engineering	--	+0.7	--	+0.7
Estimating	+226.6	-904.7	--	-678.1
Other	--	--	--	--
Support	--	-276.5	--	-276.5
Subtotal	+226.6	-1123.4	--	-896.8
Total Changes	+582.5	-1673.4	--	-1090.9
Current Estimate	1427.6	11918.7	--	13346.3

Previous Estimate: December 2007

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-3.3
Adjustment for current and prior escalation. (Estimating)	+2.1	+2.5
Air Force estimating change associated with the transfer of funds from the Air Force Program Element (PE) to the Navy PE. (Estimating)	-60.5	-72.1
Navy Estimating change associated with the transfer of funds from the Army and Air force Program Elements (PE) to the Navy RDTE PE. (Estimating)	+106.2	+127.1
Navy estimating change associated with an RDTE requirements increase from FY08 through FY12. (Estimating)	+179.4	+211.4
Navy requirement change associated with the addition of the JTRS GMR Increment 1 Spiral activity for the Enhanced Position Location and Reporting System (EPLRS) Crypto Modernization. (Estimating)	+5.0	+6.1
Army estimating change associated with the transfer of funds from the Army Program Element (PE) to the Navy PE. (Estimating)	-58.8	-70.5
Army estimating change associated with an RDTE requirements increase for FY11 and FY12. (Estimating)	+21.5	+26.0
Army requirements change associated with the addition of JTRS GMR Increment 1 Spiral activity for EPLRS Crypto Modernization. (Estimating)	+5.0	+6.2
Air Force estimating change associated with an RDTE requirements increase for FY11 and FY12. (Estimating)	+21.7	+26.1
Air Force requirement change associated with the addition of JTRS GMR Increment 1 Spiral activity for EPLRS Crypto Modernization. (Estimating)	+5.0	+6.2
RDT&E Subtotal	+226.6	+265.7

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-888.9
Total Quantity variance resulting from an increase of 436 units from 210 to 646 (Navy). (Subtotal)	+66.6	+95.8
Quantity variance resulting from an increase of 436 units from 210 to 646 (Navy). (Quantity)	(+51.4)	(+74.1)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)	(+0.7)	(+0.8)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+8.8)	(+12.6)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(+5.7)	(+8.3)
Acceleration of 69 radios in the procurement buy profile between FY11-14 (Navy). (Schedule)	0.0	-0.9
Acceleration of 61 radios in the procurement buy profile for FY11-13 (Air Force). (Schedule)	0.0	-0.5
Stretch-out of procurement buy profile (Army). (Schedule)	0.0	+882.0
Air Force Estimating change associated with the reduction in the estimated recurring manufacturing total cost following the PEO Integration (PEO-I) purchase of GMR Engineering Development Model (EDM) radios. (Estimating)	-1.9	-2.3
USMC estimating change resulting from an increase in the total procurement requirement from 210 2-4 channel radios to 646 4 channel radios . (Estimating)	+2.4	+3.1
Adjustment for current and prior escalation. (Estimating)	+0.8	+1.0

Army estimating change associated with the addition of Network Management and Software Loader Verifier requirements through FY17. (Estimating)	+25.5	+32.9
Army estimating change associated with the reduction in the estimated recurring manufacturing total cost following the PEO-I purchase of GMR EDM radios. (Estimating)	-940.3	-1488.3
Adjustment for current and prior escalation. (Support)	+0.1	+0.1
Decrease in Other Support associated with the reduction in the estimated recurring manufacturing total cost. Other support is estimated as a percentage of recurring manufacturing. Other support includes: Training, Data, Fielding, Support Equipment, and Technical Insertion/Modifications (Army). (Support)	-186.6	-240.8
Decrease in Initial Spares associated with the reduction in the estimated recurring manufacturing total cost. Initial spares is estimated as a percentage of recurring manufacturing (Army). (Support)	-113.6	-99.2
Decrease in Initial Spares associated with the reduction in the estimated recurring manufacturing total cost. Initial spares is estimated as a percentage of recurring manufacturing (Air Force). (Support)	-0.1	-0.3
Increase in Other Support associated with the increase in total procurement quantities. Other support is estimated as a percentage of recurring manufacturing. Other support includes: Training, Data, Fielding, Support Equipment, and Technical Insertion/Modifications (Navy). (Support)	+18.0	+26.9
Increase in Initial Spares associated with the increase in total procurement quantities. Initial spares is estimated as a percentage of recurring manufacturing (Navy). (Support)	+5.8	+8.1
Decrease in Other Support associated with the reduction in the estimated recurring manufacturing total cost. Other support is estimated as a percentage of recurring manufacturing. Other support includes: Training, Data, Fielding, and Support Equipment (Air Force). (Support)	-0.1	-0.1
<hr/> Procurement Subtotal	<hr/> -1123.4	<hr/> -1671.4

(QR) Quantity Related

Contracts

Contract Identification

Appropriation: RDT&E
Contract Name: JTRS GMR
Contractor: THE BOEING COMPANY
Contractor Location: HUNTINGTON BEACH, CA 92647
Contract Number: DAAB07-02-C-C403
Contract Type: Cost Plus Award Fee (CPAF)
Award Date: June 24, 2002
Definitization Date: June 24, 2002

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
235.5	N/A	302	1195.4	N/A	131	1309.8	1309.8

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/17/2009)	-85.5	-19.2
Previous Cumulative Variances	-2.5	-8.0
Net Change	-83.0	-11.2

Cost and Schedule Variance Explanations

General Contract Variance Explanation

The net unfavorable contract cost variance of \$83.0 million and the net unfavorable schedule variance of \$11.2 million are a result of predicted cost and schedule growths, as well as continued hardware development and Operation Environment (OE) Integration issues. In early 2008 the GMR Program Office projected a six month schedule slip and associated cost increases for Fiscal Years 08-10 due to required modifications to the GMR Public Key Infrastructure (PKI) approach, changes to the Waveform Interface Software (WIS) implementation, increased Soldier Radio Waveform (SRW) porting costs and the impact of non-waveform software, waveform and hardware integration challenges. In September 2008, the Defense Acquisition Executive directed that significant technical, cost or schedule challenges were to be fully funded and properly scheduled to reduce risk; to update the GMR Program Office Estimate (POE) estimate; and to reinstate the High Frequency (HF) and Ultra High Frequency (UHF) Demand Assigned Multiple Access (DAMA) Satellite Communications (SATCOM) capabilities previously deferred due to funding constraints.

Notes

The estimated price at completion is based on actual costs incurred since June 2002 plus the anticipated contractor development costs identified since the JTRS GMR rebaselining from February 2007.

PM Network Enterprise Domain (NED) Waveform (WF) development costs are separately reported in the NED SAR.

Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	79	58	131	44.27%
Production	0	0	86948	0.00%
Total Program Quantity Delivered	79	58	87079	0.07%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	19130.7	Years Appropriated	9
Expended to Date	1325.4	Percent Years Appropriated	33.33%
Percent Expended	6.93%	Appropriated to Date	1485.7
Total Funding Years	27	Percent Appropriated	7.77%

Operating and Support Cost

Assumptions and Ground Rules

1. Estimates are based on the August 2007 JTRS GMR cost estimate. The JTRS GMR Increment 1 CARD was approved in April 2007 by the JTRS JPEO.
2. GMR total radios are 86,948 (2-4 channels). O&S costs include requirements for Army, Air Force and the US Marine Corps.
3. O&S costs are calculated based on the recurring radio manufacturing. These costs will sustain the GMR radio after release into the field.
4. Operating and Support (O&S) Costs reflect the average annual cost for all radios.
5. System life is estimated at 20 years.
6. There is no antecedent program to this system.

Cost Estimate Reference:

None

Sustainment Strategy:

None

Antecedent Information:

None

Unitized O&S Costs BY2002 \$M		
Cost Element	JTRS GMR Average Annual Cost (All Radios)	No Antecedent (Antecedent)
Mission Pay & Allowance	--	--
Unit Level Consumption	317.000	--
Intermediate Maintenance	--	--
Depot Maintenance	--	--
Contractor Support	--	--
Sustaining Support	201.600	--
Indirect	--	--
Other	--	--
Total	518.600	--

Unitized Cost Comments:

None

Item	Total O&S Cost \$M			
	JTRS GMR		No Antecedent (Antecedent)	
	Current Development APB Objective/Threshold	Current Estimate		
Base Year	10681.1	11749.2	10370.8	N/A
Then Year	20649.4	N/A	18613.0	N/A

Total O&S Cost Comment

None

Disposal Estimate Details

Date of Estimate:

Source of Estimate:

Disposal/Demilitarization Total Cost (BY 2002 \$M):