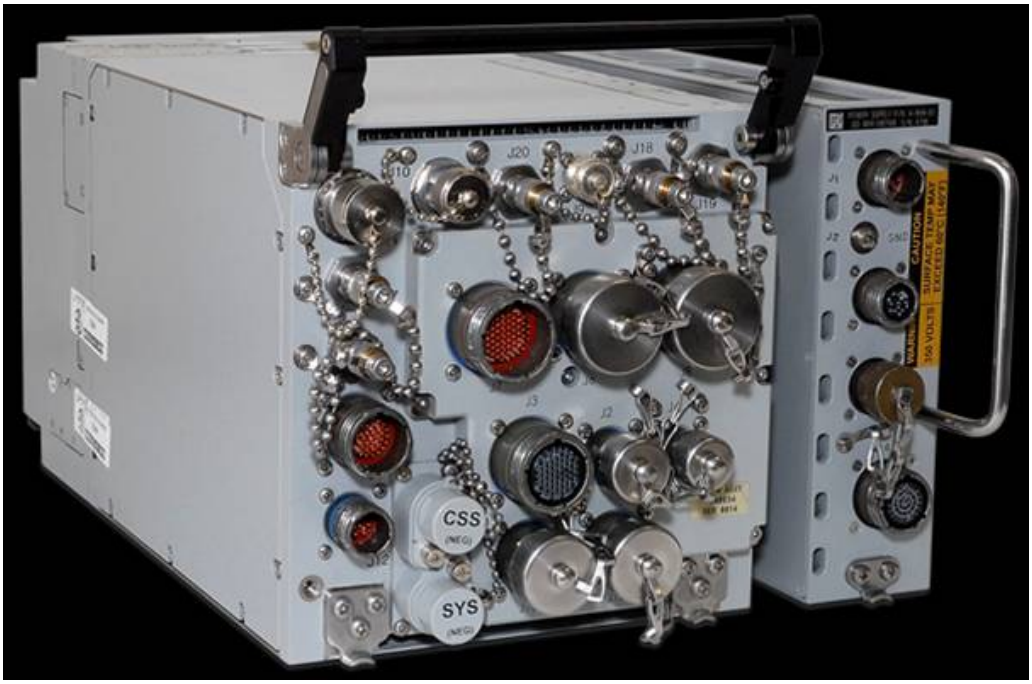
# Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-554




# Multifunctional Information Distribution System (MIDS)

As of FY 2011 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

## Table of Contents

## 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**

Multifunctional Information Distribution System (MIDS) (MIDS)

**DoD Component**

DOD

**Joint Participants**

Navy; Air Force; Army

Army is the lead Component per SECDEF Memo dated August 31, 2009.

## Responsible Office

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**Date Assigned:** June 12, 2008

## References

**SAR Baseline (Production Estimate)**

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated March 22, 2006

**Approved APB**

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 9, 2010

## Mission and Description

The Multifunctional Information Distribution System (MIDS) Program is a multinational (U.S., France, Germany, Italy, Spain) cooperative development program with joint service participation (Navy, Army, Air Force). DoD established the program to design, develop and deliver low volume, lightweight tactical information system terminals for U.S. and Allied fighter aircraft, bombers, helicopters, ships, and ground sites. The MIDS Program consists of the MIDS Low Volume Terminal (MIDS-LVT) and the MIDS Joint Tactical Radio System (MIDS JTRS) terminal.

MIDS-LVT provides interoperability with international users significantly increasing force effectiveness and minimizing hostile actions and friend-on-friend engagements. The MIDS-LVT terminal design is smaller, lighter, highly reliable, interoperable with Joint Tactical Information Distribution System (JTIDS) Class 2 terminal, compatible with all the participants' designated platforms, affordable, and re-configurable to individual user needs and budgets. Three principal configurations of the MIDS-LVT terminal are in production and use an open system, modular architecture. MIDS-LVT(1) includes voice, Tactical Air Navigation (TACAN) and variable power transmission with maximum power of 200 watts and provides a Link 16 capability to U.S. Navy and U.S. Air Force platforms. MIDS-LVT(2) is a ground variant and is a functional replacement for the JTIDS Class 2M terminal. MIDS-LVT(3), also referred to as MIDS Fighter Data Link (FDL), is a reduced function terminal for the Air Force (no voice, no TACAN, and a maximum power of 40 watts).

The MIDS JTRS terminal meets JTRS compliance. The technical objective of MIDS JTRS is to transform the current MIDS-LVT into a four-channel, Software Communications Architecture (SCA) compliant Joint Tactical Radio (JTR) set, while maintaining current Link 16 and TACAN functionality. The MIDS JTRS design is plug-and-play interchangeable with U.S. Navy and U.S. Air Force platforms that use MIDS-LVT, and accommodates future technologies and capabilities. The MIDS JTRS design will also add improvements such as Link 16 enhanced throughput, Link 16 frequency re-mapping, and programmable crypto. In addition to the Link 16 and TACAN functionality, MIDS JTRS will provide three additional 2 megahertz (MHz) to 2 gigahertz (GHz) programmable channels to accommodate incremental delivery of the advanced JTRS waveforms through MIDS JTRS Platform Capability Packages (JPCP). The first of these JPCP waveforms will be the Joint Airborne Networking-Tactical Edge (JAN-TE) capability. Total program requirements include terminal development, F/A-18E/F integration, software hosting (Operating Environment/JTRS Waveforms), implementation of National Security Agency (NSA) guidelines and production transition .

## Executive Summary

The U.S. continues to benefit from cost sharing with the European Nations for the Multifunctional Information Distribution System Low Volume Terminal (MIDS-LVT) software and hardware sustainment. A special MIDS Steering Committee meeting was held February 25-26, 2009 to focus on international participation in Link 16 enhancement development. Enhancements include crypto-modernization (CM), frequency re-mapping (FR) and enhanced throughput (ET) for Link 16. The Department of Defense (DoD) funding to maintain multinational Link 16 interoperability and affordability fulfills the U.S. international obligations in the extension to Supplement 3 of the MIDS-LVT Program Memorandum of Understanding (PMOU) with France, Germany, Italy, Spain, and the U.S. The PMOU extension to Supplement 3 was signed September 30, 2009. The U.S. benefits from Supplement 3 of the MIDS PMOU by maintaining multinational Link 16 interoperability and affordability with continued cost sharing with the European Nations for MIDS terminal software and hardware sustainment.

The MIDS Program Manager (PM) has implemented an acquisition strategy that maintains continuous competition between the two U.S. MIDS-LVT production contractors, Data Link Solutions (DLS) and ViaSat, Inc. The MIDS-LVT Production Lot 9 was awarded on June 11, 2008 for procurement of 335 terminals. The Lot 10 buy of 259 terminals was awarded June 23, 2009 and was split between the MIDS-LVT contractors. Lot 11 was awarded in March 10, 2010. To date, 6076 MIDS-LVT terminals are on contract with DLS, ViaSat, and EuroMIDS. This number includes terminals for the US Navy, US Air Force, US Army, and Foreign Military Sales. In June 2008 the MIDS Program Manager and MIDS Joint Tactical Radio System (JTRS) industry developers agreed on a cost cap arrangement that limited the government's financial liability to complete the MIDS JTRS core program. The cost cap was implemented after the program experienced cost growth and continuous schedule delays. The schedule cap negatively incentivized developer schedule slips.

MIDS JTRS Contractor First Article Qualification Testing (CFAQT) was conducted September 2007 to December 2009 to evaluate and qualify MIDS JTRS performance against specifications. MIDS JTRS Government First Article Qualification Testing (GFAQT) was conducted June 2009 to December 2009 to verify system performance against MIDS JTRS specifications and CPD requirements. MIDS JTRS regression testing was conducted following both CFAQT and GFAQT.

The MIDS Program continues to work closely with the F/A-18E/F Program Manager, Commander Operational Test and Evaluation Force (COMOPTEVFOR), National Security Agency (NSA), Director Operational Test & Evaluation (DOT&E), and Developmental Test & Evaluation (DT&E) to satisfy all test requirements. The MIDS JTRS Core Terminal successfully completed its first Link 16 flight on the F/A-18E/F on August 1, 2008. A key test milestone occurred on April 24, 2009 when the first classified flight test of the Link 16 waveform was conducted. A successful Operational Assessment (OA) was completed and a report provided by COMOPTEVFOR in October 2009. Developmental testing is ongoing and operational testing is scheduled to commence in May 2010. NSA Certification of MIDS JTRS terminals was achieved in March 2010.

The MIDS JTRS Capability Production Document (CPD) was approved on May 29, 2008, and the Test and Evaluation Master Plan (TEMP) was approved on October 1, 2008. An Overarching Integrated Product Team (OIPT) meeting was co-chaired by representatives from USD (A&T) and ASD (NII) on August 5, 2009. Positive endorsement of MIDS JTRS as a vital product for the warfighter was expressed by the OIPT participants and the OIPT recommended proceeding to a Milestone (MS) C low rate initial production (LRIP) decision. Office of Under Secretary of Defense, Acquisition, Technology and Logistics (OUSD (AT&L)) Cost Analysis and Program Evaluation (CA&PE) representatives concurred that the independent cost assessment was in line with the program office estimates.

A decision was made by OUSD (AT&L) in early December 2009 that a MS C LRIP decision was not required for MIDS JTRS since the MIDS program had a successful Milestone III decision in September 2003. The Milestone Decision Authority (MDA) chaired a Defense Acquisition Board (DAB) on December 18, 2009 for approval of MIDS JTRS Limited Production and Fielding (LP&F). During the DAB, the MIDS program demonstrated that MIDS JTRS is an affordable and scalable solution while achieving the Department of Defense's vision for advanced networking waveforms. The program office also demonstrated that the Contractor and Government First Article Qualification Testing was complete, that NSA Certification was nearing completion, and that the Technical Data Package for the MIDS participant nations (France, Germany, Italy, and Spain) was in progress. Additionally, the Navy and Air Force fielding plans for MIDS JTRS were clearly defined and funded to the Independent Cost Estimate (ICE) level.

The result of the DAB was Acquisition Decision Memorandum I signed on December 23, 2009 approving procurement of 41 MIDS JTRS variant terminals to support the F/A-18E/F production schedule and the Joint Surveillance and Target Attack Radar System (JSTARS) integration and testing requirements. The production contract was awarded to ViaSat, Inc on January 14, 2010. Acquisition Decision Memorandum II, which fully addresses the findings and guidance of the DAB, was signed on March 9, 2010. A DAB review will be held prior to a production and fielding decision for additional MIDS JTRS terminals.

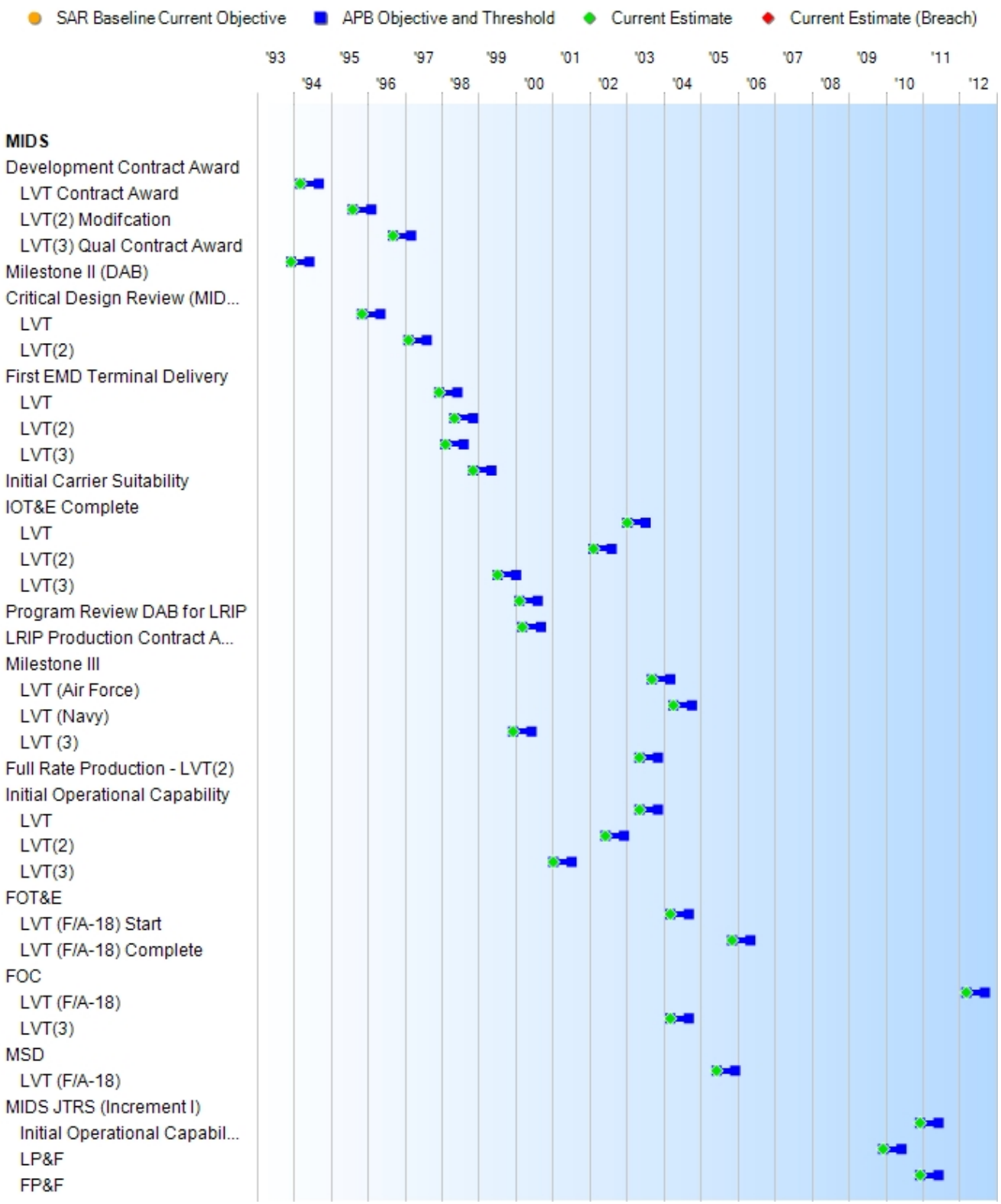
There are no significant software issues with this program.

## Threshold Breaches

| APB Breaches | | |
|---|---|---|
| **Schedule** | | ☐ |
| **Performance** | | ☐ |
| **Cost** | RDT&E | ☐ |
| | Procurement | ☐ |
| | MILCON | ☐ |
| | Acq O&M | ☐ |
| **O&S Cost** | | ☐ |
| **Unit Cost** | PAUC | ☐ |
| | APUC | ☐ |

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

## Schedule


SAR Baseline Current Objective
APB Objective and Threshold
Current Estimate
Current Estimate (Breach)
'93
'94
'95
'96
'97
'98
'99
'00
'01
'02
'03
'04
'05
'06
'07
'08
'09
'10
'11
'12
MIDS
Development Contract Award
LVT Contract Award
LVT(2) Modifcation
LVT(3) Qual Contract Award
Milestone II (DAB)
Critical Design Review (MID...
LVT
LVT(2)
First EMD Terminal Delivery
LVT
LVT(2)
LVT(3)
Initial Carrier Suitability
IOT&E Complete
LVT
LVT(2)
LVT(3)
Program Review DAB for LRIP
LRIP Production Contract A...
Milestone III
LVT (Air Force)
LVT (Navy)
LVT (3)
Full Rate Production - LVT(2)
Initial Operational Capability
LVT
LVT(2)
LVT(3)
FOT&E
LVT (F/A-18) Start
LVT (F/A-18) Complete
FOC
LVT (F/A-18)
LVT(3)
MSD
LVT (F/A-18)
MIDS JTRS (Increment I)
Initial Operational Capabil...
LP&F
FP&F

| Schedule Events | | | | |
|---|---|---|---|---|
| **Events** | **SAR Baseline Production Estimate** | **Current APB Production Objective/Threshold** | | **Current Estimate** |
| Development Contract Award | | | | |
| LVT Contract Award | Mar 1994 | Mar 1994 | Sep 1994 | Mar 1994 |
| LVT(2) Modifcation | Aug 1995 | Aug 1995 | Feb 1996 | Aug 1995 |
| LVT(3) Qual Contract Award | Sep 1996 | Sep 1996 | Mar 1997 | Sep 1996 |
| Milestone II (DAB) | Dec 1993 | Dec 1993 | Jun 1994 | Dec 1993 |
| Critical Design Review (MIDS Terminal) | N/A | | | |
| LVT | Nov 1995 | Nov 1995 | May 1996 | Nov 1995 |
| LVT(2) | Feb 1997 | Feb 1997 | Aug 1997 | Feb 1997 |
| First EMD Terminal Delivery | | | | |
| LVT | Dec 1997 | Dec 1997 | Jun 1998 | Dec 1997 |
| LVT(2) | May 1998 | May 1998 | Nov 1998 | May 1998 |
| LVT(3) | Feb 1998 | Feb 1998 | Aug 1998 | Feb 1998 |
| Initial Carrier Suitability | Nov 1998 | Nov 1998 | May 1999 | Nov 1998 |
| IOT&E Complete | | | | |
| LVT | Jan 2003 | Jan 2003 | Jul 2003 | Jan 2003 |
| LVT(2) | Feb 2002 | Feb 2002 | Aug 2002 | Feb 2002 |
| LVT(3) | Jul 1999 | Jul 1999 | Jan 2000 | Jul 1999 |
| Program Review DAB for LRIP | Feb 2000 | Feb 2000 | Aug 2000 | Feb 2000 |
| LRIP Production Contract Award | Mar 2000 | Mar 2000 | Sep 2000 | Mar 2000 |
| Milestone III | | | | |
| LVT (Air Force) | Sep 2003 | Sep 2003 | Mar 2004 | Sep 2003 |
| LVT (Navy) | Apr 2004 | Apr 2004 | Oct 2004 | Apr 2004 |
| LVT (3) | Dec 1999 | Dec 1999 | Jun 2000 | Dec 1999 |
| Full Rate Production - LVT(2) | May 2003 | May 2003 | Nov 2003 | May 2003 |
| Initial Operational Capability | | | | |
| LVT | May 2003 | May 2003 | Nov 2003 | May 2003 |
| LVT(2) | Jun 2002 | Jun 2002 | Dec 2002 | Jun 2002 |
| LVT(3) | Jan 2001 | Jan 2001 | Jul 2001 | Jan 2001 |
| FOT&E | | | | |
| LVT (F/A-18) Start | Mar 2004 | Mar 2004 | Sep 2004 | Mar 2004 |
| LVT (F/A-18) Complete | Nov 2005 | Nov 2005 | May 2006 | Nov 2005 |
| FOC | | | | |
| LVT (F/A-18) | Mar 2012 | Mar 2012 | Sep 2012 | Mar 2012 |
| LVT(3) | Mar 2004 | Mar 2004 | Sep 2004 | Mar 2004 |

| | | | | |
|---|---|---|---|---|
| MSD | | | | |
| LVT (F/A-18) | Jun 2005 | Jun 2005 | Dec 2005 | Jun 2005 |
| MIDS JTRS (Increment I) | | | | |
| Initial Operational Capability (IOC) | N/A | Dec 2010 | Jun 2011 | Dec 2010 |
| LP&F | N/A | Dec 2009 | Jun 2010 | Dec 2009 |
| FP&F | N/A | Dec 2010 | Jun 2011 | Dec 2010 |

## Change Explanations

None

## Notes

Office of the Secretary of Defense (OSD) decision was made in December 2009 that MIDS JTRS (Increment I) did not require a Milestone (MS) C decision since the MIDS Program had a MS C decision in September 2003.

## Acronyms and Abbreviations

APB - Acquisition Program Baseline
DAB - Defense Acquisition Board
EMD - Engineering and Manufacturing Development
FOC - Full Operational Capability
FOT&E - Follow-On Test and Evaluation
FP&F - Full Production and Fielding
FRP - Full Rate Production
IOC - Initial Operational Capability
IOT&E - Initial Operational Test and Evaluation
IRT - Integration Readiness Test
JTRS - Joint Tactical radio System
LP&F - Limited Production and Fielding
LRIP - Low Rate Initial Production
LVT - Low Volumn Terminal
MIDS - Multifunctional Information Distribution System
MS - Milestone
MSD - Material Support Date
OPEVAL - Operational Evaluation
Qual - Qualification

## Performance

| Performance Characteristics | | | | |
|---|---|---|---|---|
| **SAR Baseline Production Estimate** | **Current APB Production Objective/Threshold** | | **Demonstrated Performance** | **Current Estimate** |
| **Interoperability** | | | | |
| All top level IERs in SMORD | All top level IERs in SMORD | All critical top level IERs in SMORD | 100% Demonstrated | All top level IERs in SMORD |
| **Waveform Compatibility** | | | | |
| STANAG 4175 & JTIDS SSS | STANAG 4175 & JTIDS SSS | STANAG 4175 & JTIDS SSS | JITC Certified | STANAG 4175 & JTIDS SSS |
| **Message Standard** | | | | |
| STANAG 5516 (& 5616 for Data Fwds) & MIL-STD-6016B | STANAG 5516 (& 5616 for Data Fwds) & MIL-STD-6016B | STANAG 5516 (& 5616 for Data Fwds) & MIL-STD-6016B | JITC Certified | STANAG 5516 (& 5616 for Data Fwds) & MIL-STD-6016B |
| **Maximum Power Transmission (w)** | | | | |
| **LVT** | | | | |
| Multiple selectable levels | Multiple selectable levels | >=200 with IF for 1000 | 200 Watts with IF | Multiple select-able levels |
| **LVT(2)** | | | | |
| Multiple selectable levels | Multiple selectable levels | >=200 or 25 selectable | 200/25 | Multiple selectable levels |
| **LVT(3)** | | | | |
| Multiple selectable levels | Multiple selectable levels | >=50 | 50 | Multiple select-able levels |
| **Information Exchange Rate (Kbps)** | | | | |
| 1000 | >=1000 | 28.8 -115.2 | 1100 Kbps | >=1000 |
| **Paired Time Slot Relay Capability** | | | | |
| Integral and automated | Integral and automated | Integral and automated | Yes | Integral and automated |
| **Paired Time Slot Relay Range (nm) (USN Only)** | | | | |
| 1200 | >=1200 | >=500 | 520 nm | >=1200 |
| **Repromulgation Relay (nm) MIDS-LVT(2)** | | | | |

| | | | | |
|---|---|---|---|---|
| 4 hop | 4 hop | 3 hop | 4 hops | 4 hop |
| **Communication Range** | | | | |
| **LVT (USN: C2 to C2)** | | | | |
| 300 | >=300 | >=300 | 350 | >=300 |
| **LVT (USN: Non-C2 to C2)** | | | | |
| 240 | >=240 | >=220 | 240 | >=240 |
| **LVT (USN: Non-C2 to Non-C2)** | | | | |
| 200 | >=200 | >=180 | 220 | >=200 |
| **LVT (USN: Surface Platforms)** | | | | |
| LOS up to 300 | LOS >=300 | LOS >=300 | 300 | LOS >=300 |
| **LVT (F-16: Non-C2 to C2)** | | | | |
| 300 | >=300 | >=200 | 200 | >=300 |
| **LVT (F-16: Non-C2 to Non-C2)** | | | | |
| 150 | >=150 | >=100 | 150 | >=150 |
| **LVT(2)** | | | | |
| Up to 300 with LOS at 200 w | Up to 300 with LOS at 200 w | Up to 300 with LOS at 200 w | 300 | Up to 300 with LOS at 200 w |
| **LVT(3) (Non-C2 to C2)** | | | | |
| 300 | >=300 | >=200 | 300 | >=300 |
| **LVT(3) (Non-C2 to Non-C2)** | | | | |
| 150 | >=150 | >=100 | 170 | >=150 |
| **Voice Channels: LVT (USN)** | | | | |
| Capable of 2 | Capable of 2 | 1 | 2 | Capable of 2 |
| **Coded Message Error Probability (%)** | | | | |
| **LVT** | | | | |
| 1 | <=1 | <=2 | Passed - measured results classified | <=1 |
| **LVT(2)** | | | | |
| 1 | <=1 | <=2 | Passed - measured results classified | <=1 |
| **LVT(3)** | | | | |
| < 1 detected | <= 1 detected | <=2 | Passed - measured results classified | <= 1 detected |
| **Jam Resistance** | | | | |
| **LVT (USN) (db)** | | | | |

| | | | | |
|---|---|---|---|---|
| MJCS-194 - 89 | MJCS-194-89 | MJCS-194-89 | Compliant | MJCS-194-89 |
| **LVT (F-16) (%)** | | | | |
| < 1 detected error | <=1 detected error | <= 1 detected error | Passed - measured results classified | <=1 detected error |
| **LVT(2) (%)** | | | | |
| < 1 detected error | <= 1 detected error | <= 5 | Passed - measured results classified | <= 1 detected error |
| **LVT(3) (%)** | | | | |
| < 1 detected error | <= 1 detected error | <= 1 detected error | Passed - measured results classified | <= 1 detected error |
| **Ao** | | | | |
| **LVT** | | | | |
| .90 | >=.90 | >=.90 | .91 | >=.90 |
| **LVT(2) (Terminal)** | | | | |
| .94 | >=.94 | >=.90 | .94 | >=.94 |
| **LVT(3)** | | | | |
| .97 | >=.97 | >=.95 | .965 | >=.97 |
| **MTBF (hr)(lab)** | | | | |
| **USN** | | | | |
| 1000 | >=1000 | >=1000 | 1850 | >=1000 |
| **USA** | | | | |
| 1800 | >=1800 | >=1000 | 1850 | >=1800 |
| **USAF** | | | | |
| 1500 | >=1500 | >=1000 | 1850 | >=1500 |
| **MFHBOMF/MTBOMF (hr)** | | | | |
| **System** | | | | |
| 25 | >=25 | >=25 | 32 | >=25 |
| **LVT (Aircraft) (Terminal)** | | | | |
| 300 | >=300 | >=220 | 240 | >=300 |
| **LVT (Ships) (Terminal)** | | | | |
| 350 | >=350 | >=257 | 275 | >=350 |
| **LVT(2) (Terminal)** | | | | |
| 393 | >=393 | >=393 | 425 | >=393 |
| **MTTR (O-level) (min)** | | | | |
| **LVT(2) (Terminal)** | | | | |
| 30 | <=30 | <=30 | 25 | <=30 |

| | | | | |
|---|---|---|---|---|
| **MCMTOMF** | | | | |
| **LVT (USN Aircraft)** | | | | |
| 60 | <=60 | <=90 | 75 | <=60 |
| **LVT (USN Ships)** | | | | |
| 60 | <=60 | <=90 | 80 | <=60 |
| **LVT (USAF)** | | | | |
| MRT < 20 | MRT < 20 | MRT < 30 | 25 | MRT < 20 |
| **LVT(3)** | | | | |
| MRT < 20 | MRT < 20 | MRT < 30 | 28 | MRT < 20 |
| **Volume (Cubic Feet)** | | | | |
| **LVT** | | | | |
| < .6 | <= .6 | <= .6 | .58 | <= .6 |
| **LVT(2)** | | | | |
| < 1.4 | <=1.4 | <=1.4 | 1.32 | <=1.4 |
| **LVT(3)** | | | | |
| < .6 | <= .6 | <= .6 | .56 | <= .6 |
| **Weight (lbs)** | | | | |
| **LVT** | | | | |
| < 65 | <=65 | <=65 | 63.8 | <=65 |
| **LVT(2)** | | | | |
| < 88 | <=88 | <=88 | 87.9 | <=88 |
| **LVT(3)** | | | | |
| < 65 | <=65 | <=65 | 63.8 | <=65 |
| **MIDS-LVT Enhancement ECPs** | | | | |
| **Message Standards** | | | | |
| N/A | STANAG 5516 (& 5616 for Data Fwds) & MIL-STD-6016C | STANAG 5516 (& 5516 for Data Fwds) & MIL-STD-6016B | Enhancement not Implemented. | Enhancement not Implemented. |
| **Communications Range** | | | | |
| N/A | see notes | see notes | Enhancement not Implemented. | Enhancement not Implemented. |
| **Information Exchange Rate (Kbps)** | | | | |
| **LET 0** | | | | |
| N/A | >=358 | >=107 | Enhancement not Implemented. | Enhancement not Implemented. |
| **LET 1** | | | | |
| N/A | >=546 | >=358 | Enhancement | Enhancement |

| | | | | |
|---|---|---|---|---|
| | | | not Implemented. | not Implemented. |
| **LET 2** | | | | |
| N/A | >=833 | >=546 | Enhancement not Implemented. | Enhancement not Implemented. |
| **LET 3** | | | | |
| N/A | >=968 | >=833 | Enhancement not Implemented. | Enhancement not Implemented. |
| **LET 4** | | | | |
| N/A | >=1100 | >=968 | Enhancement not Implemented. | Enhancement not Implemented. |
| **Coded Message Error Probability (%)** | | | | |
| **LET 0** | | | | |
| N/A | <=1% | <=2% | Enhancement not Implemented. | Enhancement not Implemented. |
| **LET 1** | | | | |
| N/A | <=1% | <=2% | Enhancement not Implemented. | Enhancement not Implemented. |
| **LET 2** | | | | |
| N/A | <=1% | <=2% | Enhancement not Implemented. | Enhancement not Implemented. |
| **LET 3** | | | | |
| N/A | <=1% | <=2% | Enhancement not Implemented. | Enhancement not Implemented. |
| **LET 4** | | | | |
| N/A | <=1% | <=2% | Enhancement not Implemented. | Enhancement not Implemented. |
| **Jam Resistance** | | | | |
| N/A | MJCS-194-89 | MJCS-194-89 | Enhancement not Implemented. | Enhancement not Implemented. |
| **MIDS JTRS Performance Parameters** | | | | |
| **Link-16 Waveform compatibility** | | | | |
| N/A | STANAG 4175 and MIDS LVT SSS | STANAG 4175 and MIDS LVT SSS | Passed JITC waveform conformance | Passed JITC waveform conformance |

| | | | | |
|---|---|---|---|---|
| | | | test. | test. |
| **Link-16 Message Standard** | | | | |
| N/A | MIL-STD-6016C and STANAG 5516 | MIL-STD-6016C and STANAG 5516 | Passed JITC waveform conformance test. | Passed JITC waveform conformance test. |
| **Link-16 Information Exchange Rate** | | | | |
| **Normal Operations with JTRS** | | | | |
| N/A | >=1100 Kbps | >=28-115.2 Kbps | 128 | 128 |
| **LET 0** | | | | |
| N/A | >=358 | >=107 | 107 | 107 |
| **LET 1** | | | | |
| N/A | >=546 | >=358 | 358 | 358 |
| **LET 2** | | | | |
| N/A | >=833 | >=546 | 546 | 546 |
| **LET 3** | | | | |
| N/A | >=968 | >=833 | 837 | 837 |
| **LET 4** | | | | |
| N/A | >=1100 | >=968 | 968 | 968 |
| **Interoperability: All top level IERs will be satisfied to the standards specified in the threshold (T) and objective (O) values.** | | | | |
| N/A | All top-level Information exchange Requirements (IERs) are met. | All top-level Information Exchange Requirements (IERs) are met. | All top-level Information Exchange Requirements (IERs) transferred. | All top-level Information Exchange Requirements (IERs) transferred. |
| **Link-16 Coded Message Error Probability (CMEP)** | | | | |
| **LET 0** | | | | |
| N/A | <=1% | <=2% | Threshold met - results classified. | <=1% |
| **LET 1** | | | | |
| N/A | <=1% | <=2% | Threshold met - results classified. | <=1% |
| **LET 2** | | | | |
| N/A | <=1% | <=2% | Threshold met - results classified. | <=1% |
| **LET 3** | | | | |
| N/A | <=1% | <=2% | Threshold met - results | <=1% |

| | | | | |
|---|---|---|---|---|
| | | | classified. | |
| **LET 4** | | | | |
| N/A | <=1% | <=2% | Threshold met - results classified. | <=1% |
| **Weight/Volume** | | | | |
| N/A | <=65 lbs, <=.6 cu.ft. | <=65 lbs, <=.6 cu.ft. | Measured 54.7 lbs; measured .573 cu. ft. | <=65 lbs, <=.6 cu.ft. |
| **Link-16 Jam Resistance** | | | | |
| **JTRS (USN) (db)** | | | | |
| N/A | MJCS-194-89 | MJCS-194-89 | Exceeds threshold by 1-3 db in 95% of all cases. | Exceeds threshold by 1-3 db in 95% of all cases. |
| **All Others** | | | | |
| N/A | <=1% Detected message error rate | <=1% Detected message error rate | .98% | .98% |
| **Link-16 J-Voice Channels** | | | | |
| N/A | 2 | 2 | 2 | 2 |
| **Link-16 Communications Range Data** | | | | |
| N/A | see notes | see notes | >=250 nm | >=250 nm. |
| **Link-16 Communications Range J-Voice** | | | | |
| N/A | >=220nm (C2-C2 w/HPA); >=140nm (C2-non-C2); >=90nm (non-C2-nonC2/non C2-C2) | >=220nm (C2-C2 w/HPA); >=140nm (C2-non-C2); >=90nm (non-C2-nonC2/non C2-C2) | >=220nm (C2-C2 w/HPA) - Not Tested; >=140nm (C2-non-C2 - Not tested; >=90nm (non-C2-nonC2/non C2-C2) - 150. | >=220nm (C2-C2 w/HPA) - Terminal not installed in C2 platform yet; >=140nm (C2-non-C2 - Terminal not installed in C2 platform yet; >=90nm (non-C2-nonC2/non C2-C2) - 150. |
| **Link-16 Relay** | | | | |
| N/A | >=1200nm | >=500nm | Not tested yet. | >=500 nm |
| **Link-16 Operating Frequency Range** | | | | |
| N/A | Operate 2-2000 MHz | Operate 2-2000 MHz | 2-2000 MHz | 2-2000 MHz |
| **Multi-Channels/Networks** | | | | |
| N/A | 4 Channels simultaneously with TACAN/multi-net (single network) Link-16 fixed operation | 4 Channels simultaneously with TACAN/multi-net (single network) Link-16 fixed operation | 4 Channels passed. | 4 Channels passed. |

| | | | | |
|---|---|---|---|---|
| | on Channel 1 | on Channel 1* | | |
| **Scan Frequencies** | | | | |
| N/A | Scan a minimum of 10 frequencies or presets | Scan a minimum of 10 frequencies or presets | FOT&E: No MIDS JTRS waveforms require presets. | FOT&E: No MIDS JTRS waveforms require presets. |
| **Terminal Start-up/Restart (Link-16 only)** | | | | |
| N/A | <=2.0 min | <=3.5 min | 3.2 minutes | 3.2 minutes |
| **IBIT Performance (Link-16 only)** | | | | |
| N/A | <=30seconds | <=70 seconds | 29 seconds | 29 seconds |
| **Link-16 Net Entry/Synchronization** | | | | |
| N/A | <=30 seconds | Not to exceed 4 min from time that course sync is initiated | 30 sec - 2.5 minutes | 30 sec - 2.5 minutes |
| **Crypto-Rekeying** | | | | |
| N/A | Over the Air Rekeying (OTAR) through electronic media, or common reprogramming hardware / software | At O-level | Not implemented in Core Terminal. | Not implemented in Core Terminal. |
| **Link-16 Transmission of Unit Position and Status Reports** | | | | |
| N/A | <=100 ft accuracy | <=300 ft accuracy | 78 ft | 78 ft |
| **TACAN Performance Start-up/Restart** | | | | |
| N/A | <=14 seconds | <=30 seconds | 15 seconds | 15 seconds |
| **MFHBOMF (System/Single Channel)** | | | | |
| N/A | >=36 hrs (Other Platforms) | >=25 hrs (F/A-18E/F, EA-18G, TACAIR) | 36.5 hrs. | 36.5 hrs |
| **MTBF Lab (Ch. 1(Link-16))** | | | | |
| N/A | >=1800 hrs | >= 1200 hrs | 1285 hrs | 1285 hrs |
| **MTBF Lab (Ch. 2, 3 & 4)** | | | | |
| N/A | >=1800 hrs | >=1550 hrs | 1550 hrs | 1550 hrs |
| **MFHBOMF (Terminal/Single Channel))** | | | | |
| N/A | >=300 hrs | >=220 hrs | 724 (includes lab data) | 220 hrs |
| **MCMTOMF (Single Channel)** | | | | |
| N/A | <= 60 min | <=120 min; <= 90 min (F/A-18 E/F, EA-18G, NAVAIR) | 60 min | 60 min (Single channel) |
| **MRT** | | | | |
| N/A | <= 20 min | <= 45 min | 20 min | 45 min |
| **BIT PCD** | | | | |
| N/A | PCD>= 98% | PCD>= 95% | 97% | 97% |
| **BIT MFHBFA** | | | | |
| N/A | MFHBFA: >= 451 hrs | MFHBFA: >= 113 hrs | 80 hrs | 120 hrs |

| | | | | |
|---|---|---|---|---|
| **Start-Up (Terminal/Single Channel)** | | | | |
| N/A | <=2min (OE, crypto and waveform); <=2min (fine sync) | <=3.5min (OE, Crypto and waveform); <=4min (fine sync) | 3.2 min | 3.2 min |
| **Start-Up (Waveform/Link-16 only)** | | | | |
| N/A | <=2min (OE, crypto and waveform); <=2min (fine sync) | <=4min (OE, Crypto and waveform); <=4min (fine sync) | .5 - 2.5 min | .5 - 2.5 min |
| **Restart < 50 milliseconds (Core configuration only)** | | | | |
| N/A | Operates through | Operates through | Operates through | Operates through |
| **Restart <10 seconds (Terminal)** | | | | |
| N/A | <=2min | <=3.5min | 2.5 min | 2.5 min |
| **Restart <10 seconds (Link-16 waveform)** | | | | |
| N/A | <=10sec | <=10sec | 9 sec | 9 sec |
| **Restart >=10 seconds and <2min (Terminal)** | | | | |
| N/A | <=2min | <=3.5min | 3.2 min | 3.2 min |
| **Restart >=10 seconds and <2min (Link-16)** | | | | |
| N/A | <=2min | <=4min | 3.2 min | 3.2 min |
| **Restart >= 2 minutes (Terminal)** | | | | |
| N/A | <=2min | <=3.5min | 3.2 min | 3.2 min |
| **Restart >=2 minutes (Link-16 Waveform)** | | | | |
| N/A | <=2min | <=4min | 3.2 min | 3.2 min |
| **TACAN Start-up/Restart** | | | | |
| N/A | <=14sec | <=30sec | 15 sec | 15 sec |
| **IBIT Performance** | | | | |
| N/A | <=30sec | <=70sec | 30 sec | 30 sec |
| **MIDS JTRS Capability** | | | | |
| N/A | F3I for MIDS-LVT and meet the performance measures in MIDS JTRS Core Terminal KPP 1 (SMORD) Performance Measures in addition to TACAN and J-Voice. | F3I for MIDS-LVT and meet the performance measures in MIDS JTRS Core Terminal KPP 1 (SMORD) Performance Measures in addition to TACAN and J-Voice. | 11 of 11 Performance measures have been achieved in a Developmental Test period. | 11 of 11 Performance measures have been achieved in a Developmental Test period. |
| **Functionality** | | | | |
| N/A | MIDS JTRS Core Terminal will meet connectivity requirements of ALL Airborne (MIDS JTRS) Domain Waveforms. | The MIDS JTRS Core Terminal shall be capable of supporting secure and non-secure voice, video, and data communications by porting narrowband and wideband JTRS developed waveforms in compliance with the Software Communications Architecture. MIDS JTRS Core Terminal will | 15 OF 15 Performance measures have been achieved. | 15 OF 15 Performance measures have been achieved. |

| | | | | |
|---|---|---|---|---|
| | | meet connectivity requirements of ported Waveforms. | | |
| **Number of Channels** | | | | |
| N/A | Threshold same as Objective (One TACAN/Link-16 plus three additional channels for JTRS Waveforms). | One TACAN/Link-16 plus three additional channels for JTRS Waveforms. Navy Initial Implementation - TACAN/Link-16 plus 3 additional channels. USAF Initial Implementation - Link-16 for B-1. | 1 of 1 Performance measures have been achieved. | 1 of 1 Performance measures have been achieved. |
| **Net Ready** | | | | |
| 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 non-repudiation, and issuance of an ATO by the DAA, and 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture reviews. | 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 31), 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, 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 reviews. | 5 of 5 Performance measures have been achieved. System certified by NSA in March 2010. | 5 of 5 Performance measures have been achieved. System certified by NSA in March 2010. |
| **Operational Availability (Ao)** | | | | |
| N/A | Each MIDS JTRS Core Terminal shall demonstrate an operational availability Ao of >0.99 for all channels. | Each MIDS JTRS Core Terminal shall demonstrate an operational Availability Ao of >0.90 for Link-16 / TACAN Channel and >0.96 for the remaining channels. | 96.8%. | 96.8 |
| **Software Configurable** | | | | |
| N/A | Each MIDS JTRS Core | Each MIDS JTRS Core | 1 of 1 | 1 of 1 |

| | | | | |
|---|---|---|---|---|
| | Terminal shall provide any designated operator with the ability to load and reconfigure its modes/capabilities via software while in the operational environment. (Note: This capability does not apply to F/A-18E/F, EA-18G or B-1) | Terminal shall provide any designated operator with the ability to load and reconfigure its modes/capabilities via software while in the operational environment. (Note: This capability does not apply to F/A-18E/F, EA-18G or B-1) | Performance measures have been achieved. | Performance measures have been achieved. |
| **Growth** | | | | |
| N/A | The MIDS JTRS Core Terminal shall provide an internal growth capability through an open systems architecture approach, and shall be modular, scaleable, and flexible as defined to suit specific operational requirements. | The MIDS JTRS Core Terminal shall provide an internal growth capability through an open systems architecture approach, and shall be modular, scaleable, and flexible as defined to suit specific operational requirements. | 2 of 2 Performance measures achieved. | 2 of 2 Performance measures achieved. |

## Requirements Reference

Requirements for MIDS are derived from the Single MIDS Operational Requirements Document (ORD) (MIDS-LVT) approved July 25, 2004 and the MIDS JTRS Capability Production Document (CPD) (MIDS JTRS) approved May 29, 2008.

## Change Explanations

None

## Notes

Note:
1. For LET 0 there is a 5 db loss in jam resistance and 44% loss in range over PAC4 Single Pulse. The 1% error rate will be calculated based on the decrease in jamming resistance.
2. For LET 1 there is a 7 db loss in jam resistance and 56% loss in range over PAC4 Single Pulse. The 1% error rate will be calculated based on the decrease in jamming resistance.
3. For LET 2 there is a 9 db loss in jam resistance and 65% loss in range over PAC4 Single Pulse. The 1% error rate will be calculated based on the decrease in jamming resistance.
4. For LET 3 there is a 10 db loss in jam resistance and 67% loss in range over PAC4 Single Pulse. The 1% error rate will be calculated based on the decrease in jamming resistance.
5. For LET 4 there is an 11 db loss in jam resistance and 72% loss in range over PAC4 Single Pulse. The 1% error rate will be calculated based on the decrease in jamming resistance.
6. For Frequency Remap, there will be a db loss for the number of frequencies remapped based on the formula 10 log (51/51-NR) where NR = the number of frequencies remapped. There is a corresponding decrease in range of approximately 1% for each frequency that is remapped.

7. MIDS-LVT Enhancement ECPs and MIDS JTRS are Engineering Change Proposals to the MIDS-LVT Program and performance characteristics have been added for them in this SAR.

## Acronyms and Abbreviations

Ao - Operational Availability
APB - Acquisition Program Baseline
BIT - Built in Test
C2 - Command and Control
db - Decibels
dm3 - Decimeters cubed
DP - Double Pulse
hr - Hour
IBIT - Integrated Built in Test
IER - Information exchange requirement
IF - Interface
JAN-TE - Joint Airborne Network-Tactical Edge
JPCP - JTRS Platform Capability Package
JTIDS - Joint Tactical Information Distribution System
kbps - Kilobits per second
Kg - Kilograms
KM - Kilometers
lbs - Pounds
LOS - Line of sight
LVT - Low Volume Terminal
MCMTOMF - Mean Corrective Maintenance Time for Operational Mission Failures
MFHBFA - Mean Flight Hours Between False Alarms
MFHBMCF - Mean Flight Hours Between Mission Critical Failures
MFHBOMF - Mean Flight Hours Between Operational Mission Failures
MIDS - Multifunctional Information Distribution System
Mil-Std - Military Standard
min - Minute
MJCS - Memorandum Joint Chiefs of Staff
MLDT - Mean Logistics Delay Time
MROC - Multiple Required Operational Capabilities
MRT - Mean Repair Time
MTBCF - Mean Time Between Critical Failures
MTBF - Mean Time Between Failure
MTBOMF - Mean Time Between Operational Mission Failures
MTTR - Mean Time to Repair
nm, nmi - Nautical mile
OE - Operational Environment
O-Level - Organization Level
ORD - Operational Requirements Document
OTAR - Over the Air Re-keying
PCD - Percent Correct Detect
SCA - Software Communications Architecture
SMORD - Single MIDS ORD
SSS - System Segment Specification
STANAG - Standardization Agreement
TACAN - Tactical Air Navigation
TC - Period of Calendar Time
TO - Operating Time
TTNT - Tactical Targeting Network Technology
VDC - Volt Direct Current
w - Watts

## Track to Budget

**RDT&E**

| Appn | | BA | PE | | |
|---|---|---|---|---|---|
| Navy | 1319 | 05 | 0205604N | | |
| | **Project** | | **Name** | | |
| | 2126 | | Navy/Multifunctional Information Distribution System | (Shared) | |
| Air Force | 3600 | 05 | 0207130F | | |
| | **Project** | | **Name** | | |
| | | | Air Force MIDS/F-15C/D | (Shared) | (Sunk) |
| | F15 | | Air Force MIDS/F-15C/D | (Shared) | (Sunk) |
| Air Force | 3600 | 05 | 0207133F | | |
| | **Project** | | **Name** | | |
| | | | Air Force MIDS/F-16 | (Shared) | |
| | 672671 | | Air Force MIDS/F-16 | (Shared) | |
| Air Force | 3600 | 05 | 0207134F | | |
| | **Project** | | **Name** | | |
| | | | Air Force MIDS/F-15E | (Shared) | |
| | 674703 | | Air Force MIDS/F-15E | (Shared) | |
| Army | 2040 | 05 | 0603713A | | |
| | **Project** | | **Name** | | |
| | D370 | | Army MIDS/Army MIDS | (Shared) | |
| Defense-Wide | 0400 | 05 | 0603883C | | |
| | **Project** | | **Name** | | |
| | | | DOD | (Shared) | (Sunk) |
| | 0010 | | DOD | (Shared) | (Sunk) |
| Air Force | 3600 | 05 | 0604240F | | |
| | **Project** | | **Name** | | |
| | | | Air Force MIDS | (Shared) | |
| | 11B002 | | Air Force MIDS | (Shared) | |
| Navy | 1319 | 05 | 0604270N | | |
| | **Project** | | **Name** | | |
| | E0556 | | Navy EA-6B Integration/EA-6B | (Shared) | |
| | E2781 | | Navy EA-6B Integration/EA-6B | (Shared) | |
| Army | 2040 | 05 | 0604280A | | |
| | **Project** | | **Name** | | |
| | 162 | | Army (Shared)/JTRS | (Shared) | |
| Air Force | 3600 | 05 | 0604280F | | |
| | **Project** | | **Name** | | |
| | 655068 | | Air Force (Shared)/JTRS | (Shared) | |

| | | | | | |
|---|---|---|---|---|---|
| Navy | 1319 | 05 | 0604280N | | |
| | **Project** | | **Name** | | |
| | 3020 | | Navy (Shared)/JTRS | (Shared) | |
| | 3073 | | Navy (Shared)/MIDS SCA | (Shared) | |
| Defense-Wide | 0400 | 05 | 0604771D | | |
| | **Project** | | **Name** | | |
| | P771 | | OSD, DA/JTRS | (Shared) | |
| | | **Notes:** | MIDS | | |
| | P773 | | OSD, DA/Multifunctional Information Distribution System | (Shared) | |
| | | **Notes:** | MIDS | | |

**Procurement**

| **Appn** | **BA** | **PE** | | |
|---|---|---|---|---|
| Navy | 1506 | 01 | 0204163N | |
| | **Line Item** | | **Name** | |
| | 0145 | | F-18 Series | (Shared) |
| Defense-Wide | 0300 | 02 | 0208861C | |
| | **Line Item** | | **Name** | |
| | 2260 | | DA, THAAD | (Shared) (Sunk) |
| Defense-Wide | 0300 | 02 | 0208865C | |
| | **Line Item** | | **Name** | |
| | 2257 | | DA, Patriot | (Shared) (Sunk) |
| Navy | 1506 | 05 | 0204154N | |
| | **Line Item** | | **Name** | |
| | 0511 | | EW Development: EA-6B | (Shared) |
| Navy | 1506 | 05 | 0204136N | |
| | **Line Item** | | **Name** | |
| | 0525 | | F/A-18 | (Shared) |
| Defense-Wide | 0300 | 02 | | |
| | **Line Item** | | **Name** | |
| | 10 | | DOD | (Shared) (Sunk) |
| Navy | 1611 | 02 | 0204112N | |
| | **Line Item** | | **Name** | |
| | 2001 | | Navy | (Shared) |
| | 2086 | | Multi-Purpose CVNs | (Shared) |
| Navy | 1611 | 02 | 0204222N | |
| | **Line Item** | | **Name** | |
| | 2122 | | DDG-51 | (Shared) |
| Navy | 1611 | 02 | 0204230N | |
| | **Line Item** | | **Name** | |
| | 2127 | | Navy | (Shared) |

| | | | | | |
|---|---|---|---|---|---|
| Navy | 1810 | 02 | 0205604N | | |
| | **Line Item** | | **Name** | | |
| | 2614 | | Advanced Tactical Data Link System | (Shared) | |
| Defense-Wide | 0300 | 02 | | | |
| | **Line Item** | | **Name** | | |
| | 30 | | DOD | (Shared) | (Sunk) |
| Navy | 1611 | 03 | 0204411N | | |
| | **Line Item** | | **Name** | | |
| | 3035 | | Amphibious Assault Ships | (Shared) | |
| | 3036 | | LPD-17 | (Shared) | |
| Air Force | 3010 | 02 | | | |
| | **Line Item** | | **Name** | | |
| | B00200 | | ABL | (Shared) | |
| Army | 2035 | 02 | 0214400A | | |
| | **Line Item** | | **Name** | | |
| | B22603 | | Short-Range Air Defense | | |
| Air Force | 3010 | 05 | | | |
| | **Line Item** | | **Name** | | |
| | F01500 | | F-15 | (Shared) | |
| | F01600 | | F-16 | (Shared) | |
| Air Force | 3080 | 02 | | | |
| | **Line Item** | | **Name** | | |
| | F01600 | | F-16 | (Shared) | |
| Air Force | 3010 | 05 | 0207423F | | |
| | **Line Item** | | **Name** | | |
| | MN9860 | | Joint Tactical Radio System | | |

## Cost and Funding

## Cost Summary

| Total Acquisition Cost | | | | | | | |
|---|---|---|---|---|---|---|---|
| Appropriation | BY 2003 $M | | | BY 2003 $M | TY $M | | |
| | SAR Baseline Production Estimate | Current APB Production Objective/Threshold | | Current Estimate | SAR Baseline Production Estimate | Current APB Production Objective | Current Estimate |
| RDT&E | 869.4 | 1326.0 | 1458.6 | 1325.8 | 825.8 | 1345.9 | 1345.9 |
| Procurement | 955.4 | 1149.5 | 1264.5 | 1171.2 | 993.1 | 1246.6 | 1273.4 |
| Flyaway | -- | -- | -- | 983.1 | -- | -- | 1067.1 |
| Recurring | -- | -- | -- | 910.5 | -- | -- | 995.6 |
| Non Recurring | -- | -- | -- | 72.6 | -- | -- | 71.5 |
| Support | -- | -- | -- | 188.1 | -- | -- | 206.3 |
| Other Support | -- | -- | -- | 46.4 | -- | -- | 52.6 |
| Initial Spares | -- | -- | -- | 141.7 | -- | -- | 153.7 |
| 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 | 1824.8 | 2475.5 | N/A | 2497.0 | 1818.9 | 2592.5 | 2619.3 |

**Cost Notes**

RDT&E costs include MIDS-LVT and MIDS JTRS terminal development, terminal acquisition, integration and test on the U.S. Navy platforms. Procurement costs are for the MIDS terminals. Costs of platform installation and platform kits, and Air Force and Army platform integration and testing of MIDS-LVT and MIDS JTRS are to be included in the respective budgets and baseline agreements of the various platforms implementing MIDS.

APB cost estimate is at the 50% confidence level. The program was directed by the December 2009 ADM to use the OSD Independent Cost Estimate, which is at the 50% confidence level, for the APB.

| Total Quantity | | | |
|---|---|---|---|
| **Quantity** | **SAR Baseline Production Estimate** | **Current APB Production** | **Current Estimate** |
| RDT&E | 143 | 403 | 403 |
| Procurement | 2821 | 4150 | 4227 |
| Total | 2964 | 4553 | 4630 |

**Quantity Notes**

Note: Procurement quantities include MIDS terminals for Navy ships, F/A-18s and EA-6Bs; Air Force F-15s and F-16s; and other Navy, Air Force and Army platforms. The current estimate includes MIDS JTRS procurement quantities for the Phase 2B Core Terminals.

Note: Unit of Measure is terminals.

## 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 | 1248.1 | 12.5 | 20.6 | 31.1 | 26.1 | 5.5 | 2.0 | 0.0 | 1345.9 |
| Procurement | 1021.3 | 66.4 | 55.9 | 51.9 | 36.2 | 23.0 | 16.4 | 2.3 | 1273.4 |
| 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 | 2269.4 | 78.9 | 76.5 | 83.0 | 62.3 | 28.5 | 18.4 | 2.3 | 2619.3 |
| PB 2009 Total | 2197.3 | 65.6 | 37.0 | 31.1 | 17.4 | 12.9 | 6.2 | 5.2 | 2372.7 |
| Delta | 72.1 | 13.3 | 39.5 | 51.9 | 44.9 | 15.6 | 12.2 | -2.9 | 246.6 |

| 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 | 403 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 403 |
| Production | 0 | 3422 | 214 | 177 | 169 | 124 | 73 | 45 | 3 | 4227 |
| PB 2011 Total | 403 | 3422 | 214 | 177 | 169 | 124 | 73 | 45 | 3 | 4630 |
| PB 2009 Total | 359 | 3117 | 106 | 76 | 62 | 36 | 27 | 13 | 11 | 3807 |
| Delta | 44 | 305 | 108 | 101 | 107 | 88 | 46 | 32 | -8 | 823 |

## Cost and Funding

## Annual Funding By Appropriation

| Annual Funding<br>0400 \| RDT&E \| Research, Development, Test, and Evaluation, Defense-Wide | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | TY $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1990 | -- | -- | -- | -- | -- | -- | 9.0 |
| 1991 | -- | -- | -- | -- | -- | -- | 5.0 |
| 1992 | -- | -- | -- | -- | -- | -- | 16.6 |
| 1993 | -- | -- | -- | -- | -- | -- | 23.9 |
| 1994 | -- | -- | -- | -- | -- | -- | 23.3 |
| 1995 | -- | -- | -- | -- | -- | -- | 49.5 |
| 1996 | -- | -- | -- | -- | -- | -- | 42.7 |
| 1997 | -- | -- | -- | -- | -- | -- | 36.9 |
| 1998 | -- | -- | -- | -- | -- | -- | 45.2 |
| 1999 | -- | -- | -- | -- | -- | -- | 27.9 |
| 2000 | -- | -- | -- | -- | -- | -- | 39.0 |
| 2001 | -- | -- | -- | -- | -- | -- | 12.1 |
| 2002 | -- | -- | -- | -- | -- | -- | 13.1 |
| 2003 | -- | -- | -- | -- | -- | -- | 7.7 |
| 2004 | -- | -- | -- | -- | -- | -- | 7.0 |
| 2005 | -- | -- | -- | -- | -- | -- | 9.6 |
| 2006 | -- | -- | -- | -- | -- | -- | 1.0 |
| 2007 | -- | -- | -- | -- | -- | -- | 2.0 |
| 2008 | -- | -- | -- | -- | -- | -- | -- |
| 2009 | -- | -- | -- | -- | -- | -- | 0.6 |
| Subtotal | 68 | -- | -- | -- | -- | -- | 372.1 |

| Annual Funding<br>0400 \| RDT&E \| Research, Development, Test, and Evaluation, Defense-Wide | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1990 | -- | -- | -- | -- | -- | -- | 11.1 |
| 1991 | -- | -- | -- | -- | -- | -- | 5.9 |
| 1992 | -- | -- | -- | -- | -- | -- | 19.2 |
| 1993 | -- | -- | -- | -- | -- | -- | 27.2 |
| 1994 | -- | -- | -- | -- | -- | -- | 26.0 |
| 1995 | -- | -- | -- | -- | -- | -- | 54.2 |
| 1996 | -- | -- | -- | -- | -- | -- | 45.9 |
| 1997 | -- | -- | -- | -- | -- | -- | 39.2 |
| 1998 | -- | -- | -- | -- | -- | -- | 47.6 |
| 1999 | -- | -- | -- | -- | -- | -- | 29.0 |
| 2000 | -- | -- | -- | -- | -- | -- | 40.0 |
| 2001 | -- | -- | -- | -- | -- | -- | 12.2 |
| 2002 | -- | -- | -- | -- | -- | -- | 13.1 |
| 2003 | -- | -- | -- | -- | -- | -- | 7.6 |
| 2004 | -- | -- | -- | -- | -- | -- | 6.7 |
| 2005 | -- | -- | -- | -- | -- | -- | 9.0 |
| 2006 | -- | -- | -- | -- | -- | -- | 0.9 |
| 2007 | -- | -- | -- | -- | -- | -- | 1.8 |
| 2008 | -- | -- | -- | -- | -- | -- | -- |
| 2009 | -- | -- | -- | -- | -- | -- | 0.5 |
| Subtotal | 68 | -- | -- | -- | -- | -- | 397.1 |

| Annual Funding<br>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 |
| 1990 | -- | -- | -- | -- | -- | -- | 2.9 |
| 1991 | -- | -- | -- | -- | -- | -- | 4.7 |
| 1992 | -- | -- | -- | -- | -- | -- | 10.0 |
| 1993 | -- | -- | -- | -- | -- | -- | 12.4 |
| 1994 | -- | -- | -- | -- | -- | -- | 23.0 |
| 1995 | -- | -- | -- | -- | -- | -- | 18.4 |
| 1996 | -- | -- | -- | -- | -- | -- | 31.0 |
| 1997 | -- | -- | -- | -- | -- | -- | 28.2 |
| 1998 | -- | -- | -- | -- | -- | -- | 39.8 |
| 1999 | -- | -- | -- | -- | -- | -- | 45.4 |
| 2000 | -- | -- | -- | -- | -- | -- | 62.3 |
| 2001 | -- | -- | -- | -- | -- | -- | 37.7 |
| 2002 | -- | -- | -- | -- | -- | -- | 26.2 |
| 2003 | -- | -- | -- | -- | -- | -- | 16.8 |
| 2004 | -- | -- | -- | -- | -- | -- | 22.4 |
| 2005 | -- | -- | -- | -- | -- | -- | 27.7 |
| 2006 | -- | -- | -- | -- | -- | -- | 98.3 |
| 2007 | -- | -- | -- | -- | -- | -- | 162.5 |
| 2008 | -- | -- | -- | -- | -- | -- | 77.2 |
| 2009 | -- | -- | -- | -- | -- | -- | 26.6 |
| 2010 | -- | -- | -- | -- | -- | -- | 12.5 |
| 2011 | -- | -- | -- | -- | -- | -- | 20.6 |
| 2012 | -- | -- | -- | -- | -- | -- | 7.8 |
| 2013 | -- | -- | -- | -- | -- | -- | 7.8 |
| 2014 | -- | -- | -- | -- | -- | -- | 2.4 |
| 2015 | -- | -- | -- | -- | -- | -- | 0.8 |
| Subtotal | 92 | -- | -- | -- | -- | -- | 825.4 |

| Annual Funding<br>1319 \| RDT&E \| Research, Development, Test, and Evaluation, Navy | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1990 | -- | -- | -- | -- | -- | -- | 3.6 |
| 1991 | -- | -- | -- | -- | -- | -- | 5.6 |
| 1992 | -- | -- | -- | -- | -- | -- | 11.6 |
| 1993 | -- | -- | -- | -- | -- | -- | 14.1 |
| 1994 | -- | -- | -- | -- | -- | -- | 25.6 |
| 1995 | -- | -- | -- | -- | -- | -- | 20.1 |
| 1996 | -- | -- | -- | -- | -- | -- | 33.3 |
| 1997 | -- | -- | -- | -- | -- | -- | 30.0 |
| 1998 | -- | -- | -- | -- | -- | -- | 41.9 |
| 1999 | -- | -- | -- | -- | -- | -- | 47.3 |
| 2000 | -- | -- | -- | -- | -- | -- | 63.9 |
| 2001 | -- | -- | -- | -- | -- | -- | 38.2 |
| 2002 | -- | -- | -- | -- | -- | -- | 26.3 |
| 2003 | -- | -- | -- | -- | -- | -- | 16.6 |
| 2004 | -- | -- | -- | -- | -- | -- | 21.5 |
| 2005 | -- | -- | -- | -- | -- | -- | 25.9 |
| 2006 | -- | -- | -- | -- | -- | -- | 89.3 |
| 2007 | -- | -- | -- | -- | -- | -- | 144.0 |
| 2008 | -- | -- | -- | -- | -- | -- | 67.2 |
| 2009 | -- | -- | -- | -- | -- | -- | 22.9 |
| 2010 | -- | -- | -- | -- | -- | -- | 10.6 |
| 2011 | -- | -- | -- | -- | -- | -- | 17.3 |
| 2012 | -- | -- | -- | -- | -- | -- | 6.4 |
| 2013 | -- | -- | -- | -- | -- | -- | 6.3 |
| 2014 | -- | -- | -- | -- | -- | -- | 1.9 |
| 2015 | -- | -- | -- | -- | -- | -- | 0.6 |
| Subtotal | 92 | -- | -- | -- | -- | -- | 792.0 |

| Annual Funding<br>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 |
| 1997 | -- | -- | -- | -- | -- | -- | 0.5 |
| 1998 | -- | -- | -- | -- | -- | -- | 2.4 |
| 1999 | -- | -- | -- | -- | -- | -- | 5.2 |
| 2000 | -- | -- | -- | -- | -- | -- | -- |
| 2001 | -- | -- | -- | -- | -- | -- | 0.1 |
| 2002 | -- | -- | -- | -- | -- | -- | 3.2 |
| 2003 | -- | -- | -- | -- | -- | -- | 0.6 |
| 2004 | -- | -- | -- | -- | -- | -- | 3.1 |
| 2005 | -- | -- | -- | -- | -- | -- | 4.4 |
| 2006 | -- | -- | -- | -- | -- | -- | -- |
| 2007 | -- | -- | -- | -- | -- | -- | 1.5 |
| 2008 | -- | -- | -- | -- | -- | -- | 1.9 |
| 2009 | -- | -- | -- | -- | -- | -- | 3.3 |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | -- | -- |
| 2012 | -- | -- | -- | -- | -- | -- | 5.3 |
| 2013 | -- | -- | -- | -- | -- | -- | 4.7 |
| 2014 | -- | -- | -- | -- | -- | -- | 0.7 |
| 2015 | -- | -- | -- | -- | -- | -- | 0.3 |
| Subtotal | 73 | -- | -- | -- | -- | -- | 37.2 |

| Annual Funding<br>2040 \| RDT&E \| Research, Development, Test, and Evaluation, Army | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1997 | -- | -- | -- | -- | -- | -- | 0.5 |
| 1998 | -- | -- | -- | -- | -- | -- | 2.5 |
| 1999 | -- | -- | -- | -- | -- | -- | 5.4 |
| 2000 | -- | -- | -- | -- | -- | -- | -- |
| 2001 | -- | -- | -- | -- | -- | -- | 0.1 |
| 2002 | -- | -- | -- | -- | -- | -- | 3.2 |
| 2003 | -- | -- | -- | -- | -- | -- | 0.6 |
| 2004 | -- | -- | -- | -- | -- | -- | 3.0 |
| 2005 | -- | -- | -- | -- | -- | -- | 4.1 |
| 2006 | -- | -- | -- | -- | -- | -- | -- |
| 2007 | -- | -- | -- | -- | -- | -- | 1.3 |
| 2008 | -- | -- | -- | -- | -- | -- | 1.6 |
| 2009 | -- | -- | -- | -- | -- | -- | 2.8 |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | -- | -- |
| 2012 | -- | -- | -- | -- | -- | -- | 4.4 |
| 2013 | -- | -- | -- | -- | -- | -- | 3.8 |
| 2014 | -- | -- | -- | -- | -- | -- | 0.6 |
| 2015 | -- | -- | -- | -- | -- | -- | 0.2 |
| Subtotal | 73 | -- | -- | -- | -- | -- | 34.1 |

| Annual Funding<br>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 |
| 1997 | -- | -- | -- | -- | -- | -- | 3.9 |
| 1998 | -- | -- | -- | -- | -- | -- | 8.0 |
| 1999 | -- | -- | -- | -- | -- | -- | 0.2 |
| 2000 | -- | -- | -- | -- | -- | -- | 6.3 |
| 2001 | -- | -- | -- | -- | -- | -- | 3.9 |
| 2002 | -- | -- | -- | -- | -- | -- | 2.9 |
| 2003 | -- | -- | -- | -- | -- | -- | 4.3 |
| 2004 | -- | -- | -- | -- | -- | -- | 14.3 |
| 2005 | -- | -- | -- | -- | -- | -- | 19.6 |
| 2006 | -- | -- | -- | -- | -- | -- | 4.5 |
| 2007 | -- | -- | -- | -- | -- | -- | 2.2 |
| 2008 | -- | -- | -- | -- | -- | -- | 1.4 |
| 2009 | -- | -- | -- | -- | -- | -- | 4.8 |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | -- | -- |
| 2012 | -- | -- | -- | -- | -- | -- | 18.0 |
| 2013 | -- | -- | -- | -- | -- | -- | 13.6 |
| 2014 | -- | -- | -- | -- | -- | -- | 2.4 |
| 2015 | -- | -- | -- | -- | -- | -- | 0.9 |
| Subtotal | 170 | -- | -- | -- | -- | -- | 111.2 |

| Annual Funding<br>3600 \| RDT&E \| Research, Development, Test, and Evaluation, Air Force | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1997 | -- | -- | -- | -- | -- | -- | 4.1 |
| 1998 | -- | -- | -- | -- | -- | -- | 8.4 |
| 1999 | -- | -- | -- | -- | -- | -- | 0.2 |
| 2000 | -- | -- | -- | -- | -- | -- | 6.5 |
| 2001 | -- | -- | -- | -- | -- | -- | 4.0 |
| 2002 | -- | -- | -- | -- | -- | -- | 2.9 |
| 2003 | -- | -- | -- | -- | -- | -- | 4.3 |
| 2004 | -- | -- | -- | -- | -- | -- | 13.8 |
| 2005 | -- | -- | -- | -- | -- | -- | 18.4 |
| 2006 | -- | -- | -- | -- | -- | -- | 4.1 |
| 2007 | -- | -- | -- | -- | -- | -- | 2.0 |
| 2008 | -- | -- | -- | -- | -- | -- | 1.2 |
| 2009 | -- | -- | -- | -- | -- | -- | 4.1 |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | -- | -- |
| 2012 | -- | -- | -- | -- | -- | -- | 14.9 |
| 2013 | -- | -- | -- | -- | -- | -- | 11.1 |
| 2014 | -- | -- | -- | -- | -- | -- | 1.9 |
| 2015 | -- | -- | -- | -- | -- | -- | 0.7 |
| Subtotal | 170 | -- | -- | -- | -- | -- | 102.6 |

| Annual Funding<br>0300 \| Procurement \| Procurement, Defense-Wide | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | TY $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1999 | 11 | 2.7 | 0.1 | 4.5 | 7.3 | 0.7 | 8.0 |
| 2000 | -- | -- | -- | -- | -- | -- | -- |
| 2001 | 19 | 4.8 | -- | -- | 4.8 | 1.0 | 5.8 |
| 2002 | -- | -- | -- | -- | -- | 0.3 | 0.3 |
| 2003 | 10 | 2.5 | -- | -- | 2.5 | 0.1 | 2.6 |
| 2004 | -- | -- | -- | -- | -- | -- | -- |
| 2005 | 4 | 1.0 | -- | -- | 1.0 | -- | 1.0 |
| Subtotal | 44 | 11.0 | 0.1 | 4.5 | 15.6 | 2.1 | 17.7 |

| Annual Funding<br>0300 \| Procurement \| Procurement, Defense-Wide | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1999 | 11 | 2.8 | 0.1 | 4.7 | 7.6 | 0.7 | 8.3 |
| 2000 | -- | -- | -- | -- | -- | -- | -- |
| 2001 | 19 | 4.8 | -- | -- | 4.8 | 1.0 | 5.8 |
| 2002 | -- | -- | -- | -- | -- | 0.3 | 0.3 |
| 2003 | 10 | 2.4 | -- | -- | 2.4 | 0.1 | 2.5 |
| 2004 | -- | -- | -- | -- | -- | -- | -- |
| 2005 | 4 | 0.9 | -- | -- | 0.9 | -- | 0.9 |
| Subtotal | 44 | 10.9 | 0.1 | 4.7 | 15.7 | 2.1 | 17.8 |

Note: This appropriation provides for the procurement of the Army unique MIDS-LVT(2) variant for the Patriot Air Defense System.

| Annual Funding<br>1506 \| Procurement \| Aircraft Procurement, Navy | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | TY $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1999 | 16 | 5.9 | 1.3 | 0.5 | 7.7 | 0.3 | 8.0 |
| 2000 | 58 | 15.1 | 1.8 | 35.5 | 52.4 | 8.3 | 60.7 |
| 2001 | 64 | 20.2 | 3.7 | 0.2 | 24.1 | 2.4 | 26.5 |
| 2002 | 103 | 23.9 | 0.5 | -- | 24.4 | 10.6 | 35.0 |
| 2003 | 116 | 22.7 | 3.6 | -- | 26.3 | 10.3 | 36.6 |
| 2004 | 138 | 27.8 | 3.2 | -- | 31.0 | 8.4 | 39.4 |
| 2005 | 124 | 25.7 | 2.9 | -- | 28.6 | 13.8 | 42.4 |
| 2006 | 165 | 31.0 | 2.9 | 0.1 | 34.0 | 1.8 | 35.8 |
| 2007 | 159 | 35.0 | 3.0 | -- | 38.0 | 5.2 | 43.2 |
| 2008 | 165 | 38.0 | 2.9 | -- | 40.9 | 10.3 | 51.2 |
| 2009 | 144 | 35.6 | 2.9 | -- | 38.5 | 2.0 | 40.5 |
| 2010 | 164 | 43.7 | 0.2 | -- | 43.9 | 7.2 | 51.1 |
| 2011 | 119 | 30.3 | -- | -- | 30.3 | 6.4 | 36.7 |
| 2012 | 115 | 28.5 | -- | -- | 28.5 | 6.5 | 35.0 |
| 2013 | 81 | 16.6 | -- | -- | 16.6 | 5.7 | 22.3 |
| 2014 | 43 | 8.2 | -- | -- | 8.2 | 5.9 | 14.1 |
| 2015 | 28 | 5.4 | -- | -- | 5.4 | 5.9 | 11.3 |
| Subtotal | 1802 | 413.6 | 28.9 | 36.3 | 478.8 | 111.0 | 589.8 |

| Annual Funding<br>1506 \| Procurement \| Aircraft Procurement, Navy | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1999 | 16 | 6.1 | 1.3 | 0.5 | 7.9 | 0.3 | 8.2 |
| 2000 | 58 | 15.3 | 1.8 | 36.1 | 53.2 | 8.4 | 61.6 |
| 2001 | 64 | 20.2 | 3.8 | 0.2 | 24.2 | 2.4 | 26.6 |
| 2002 | 103 | 23.7 | 0.5 | -- | 24.2 | 10.4 | 34.6 |
| 2003 | 116 | 22.0 | 3.5 | -- | 25.5 | 10.0 | 35.5 |
| 2004 | 138 | 26.3 | 3.0 | -- | 29.3 | 8.0 | 37.3 |
| 2005 | 124 | 23.6 | 2.7 | -- | 26.3 | 12.7 | 39.0 |
| 2006 | 165 | 27.7 | 2.6 | 0.1 | 30.4 | 1.6 | 32.0 |
| 2007 | 159 | 30.6 | 2.6 | -- | 33.2 | 4.6 | 37.8 |
| 2008 | 165 | 32.8 | 2.5 | -- | 35.3 | 8.9 | 44.2 |
| 2009 | 144 | 30.3 | 2.4 | -- | 32.7 | 1.8 | 34.5 |
| 2010 | 164 | 36.8 | 0.2 | -- | 37.0 | 6.0 | 43.0 |
| 2011 | 119 | 25.1 | -- | -- | 25.1 | 5.3 | 30.4 |
| 2012 | 115 | 23.2 | -- | -- | 23.2 | 5.3 | 28.5 |
| 2013 | 81 | 13.3 | -- | -- | 13.3 | 4.6 | 17.9 |
| 2014 | 43 | 6.5 | -- | -- | 6.5 | 4.6 | 11.1 |
| 2015 | 28 | 4.2 | -- | -- | 4.2 | 4.6 | 8.8 |
| Subtotal | 1802 | 367.7 | 26.9 | 36.9 | 431.5 | 99.5 | 531.0 |

NOTE: This appropriation identifies the MIDS-LVT and MIDS JTRS core terminals that are planned for the F/A-18C/D/E/F, E/A-18G, MH-60R/S and the EA-6B.

| Annual Funding<br>1611 \| Procurement \| Shipbuilding and Conversion, Navy | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | TY $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 2001 | 1 | 0.4 | -- | -- | 0.4 | -- | 0.4 |
| 2002 | 2 | 0.9 | -- | -- | 0.9 | -- | 0.9 |
| 2003 | 5 | 2.1 | -- | -- | 2.1 | -- | 2.1 |
| 2004 | 5 | 0.9 | -- | -- | 0.9 | -- | 0.9 |
| 2005 | 3 | 0.7 | -- | -- | 0.7 | -- | 0.7 |
| 2006 | 4 | 0.7 | -- | -- | 0.7 | -- | 0.7 |
| 2007 | -- | -- | -- | -- | -- | -- | -- |
| 2008 | 2 | 0.4 | -- | -- | 0.4 | -- | 0.4 |
| 2009 | -- | -- | -- | -- | -- | -- | -- |
| 2010 | 5 | 0.9 | -- | -- | 0.9 | -- | 0.9 |
| 2011 | 5 | 0.8 | -- | -- | 0.8 | -- | 0.8 |
| Subtotal | 32 | 7.8 | -- | -- | 7.8 | -- | 7.8 |

| Annual Funding<br>1611 \| Procurement \| Shipbuilding and Conversion, Navy | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 2001 | 1 | 0.4 | -- | -- | 0.4 | -- | 0.4 |
| 2002 | 2 | 0.9 | -- | -- | 0.9 | -- | 0.9 |
| 2003 | 5 | 1.9 | -- | -- | 1.9 | -- | 1.9 |
| 2004 | 5 | 0.8 | -- | -- | 0.8 | -- | 0.8 |
| 2005 | 3 | 0.6 | -- | -- | 0.6 | -- | 0.6 |
| 2006 | 4 | 0.6 | -- | -- | 0.6 | -- | 0.6 |
| 2007 | -- | -- | -- | -- | -- | -- | -- |
| 2008 | 2 | 0.3 | -- | -- | 0.3 | -- | 0.3 |
| 2009 | -- | -- | -- | -- | -- | -- | -- |
| 2010 | 5 | 0.7 | -- | -- | 0.7 | -- | 0.7 |
| 2011 | 5 | 0.6 | -- | -- | 0.6 | -- | 0.6 |
| Subtotal | 32 | 6.8 | -- | -- | 6.8 | -- | 6.8 |

Note: This appropriation identifies the MIDS on ship variant for new construction surface ships.

| Annual Funding<br>1810 \| Procurement \| Other Procurement, Navy | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | TY $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1999 | 3 | 1.1 | -- | -- | 1.1 | -- | 1.1 |
| 2000 | -- | -- | -- | -- | -- | -- | -- |
| 2001 | -- | -- | -- | -- | -- | -- | -- |
| 2002 | 2 | 0.6 | -- | -- | 0.6 | -- | 0.6 |
| 2003 | 6 | 1.7 | -- | -- | 1.7 | -- | 1.7 |
| 2004 | 8 | 1.8 | -- | -- | 1.8 | -- | 1.8 |
| 2005 | -- | -- | -- | -- | -- | 0.1 | 0.1 |
| 2006 | 8 | 1.9 | -- | 0.1 | 2.0 | -- | 2.0 |
| 2007 | 17 | 3.0 | -- | -- | 3.0 | 0.6 | 3.6 |
| 2008 | 26 | 6.6 | -- | -- | 6.6 | -- | 6.6 |
| 2009 | 6 | 2.4 | -- | -- | 2.4 | -- | 2.4 |
| Subtotal | 76 | 19.1 | -- | 0.1 | 19.2 | 0.7 | 19.9 |

| Annual Funding<br>1810 \| Procurement \| Other Procurement, Navy | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1999 | 3 | 1.1 | -- | -- | 1.1 | -- | 1.1 |
| 2000 | -- | -- | -- | -- | -- | -- | -- |
| 2001 | -- | -- | -- | -- | -- | -- | -- |
| 2002 | 2 | 0.6 | -- | -- | 0.6 | -- | 0.6 |
| 2003 | 6 | 1.7 | -- | -- | 1.7 | -- | 1.7 |
| 2004 | 8 | 1.7 | -- | -- | 1.7 | -- | 1.7 |
| 2005 | -- | -- | -- | -- | -- | 0.1 | 0.1 |
| 2006 | 8 | 1.7 | -- | 0.1 | 1.8 | -- | 1.8 |
| 2007 | 17 | 2.6 | -- | -- | 2.6 | 0.6 | 3.2 |
| 2008 | 26 | 5.7 | -- | -- | 5.7 | -- | 5.7 |
| 2009 | 6 | 2.0 | -- | -- | 2.0 | -- | 2.0 |
| Subtotal | 76 | 17.1 | -- | 0.1 | 17.2 | 0.7 | 17.9 |

Note: This appropriation identifies the MIDS on ship variant for Amphibious Assault Ships and shore stations.

| Annual Funding<br>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 |
| 2001 | 1 | 0.3 | -- | -- | 0.3 | -- | 0.3 |
| 2002 | -- | -- | -- | -- | -- | -- | -- |
| 2003 | 4 | 1.0 | -- | -- | 1.0 | 0.4 | 1.4 |
| 2004 | 5 | 1.3 | -- | -- | 1.3 | 0.4 | 1.7 |
| 2005 | 62 | 15.7 | -- | -- | 15.7 | 1.2 | 16.9 |
| 2006 | 67 | 16.3 | -- | -- | 16.3 | 0.1 | 16.4 |
| 2007 | 40 | 9.4 | -- | -- | 9.4 | 1.2 | 10.6 |
| 2008 | 144 | 33.5 | -- | -- | 33.5 | -- | 33.5 |
| 2009 | 28 | 6.4 | -- | -- | 6.4 | 2.1 | 8.5 |
| 2010 | 29 | 7.0 | -- | -- | 7.0 | 1.5 | 8.5 |
| 2011 | 15 | 3.7 | -- | -- | 3.7 | 2.1 | 5.8 |
| 2012 | 17 | 4.2 | -- | -- | 4.2 | 0.8 | 5.0 |
| 2013 | 13 | 3.2 | -- | -- | 3.2 | 0.8 | 4.0 |
| 2014 | 17 | 4.2 | -- | -- | 4.2 | 0.9 | 5.1 |
| 2015 | 17 | 4.2 | -- | -- | 4.2 | 0.9 | 5.1 |
| Subtotal | 459 | 110.4 | -- | -- | 110.4 | 12.4 | 122.8 |

| Annual Funding<br>2035 \| Procurement \| Other Procurement, Army | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 2001 | 1 | 0.3 | -- | -- | 0.3 | -- | 0.3 |
| 2002 | -- | -- | -- | -- | -- | -- | -- |
| 2003 | 4 | 1.0 | -- | -- | 1.0 | 0.4 | 1.4 |
| 2004 | 5 | 1.2 | -- | -- | 1.2 | 0.4 | 1.6 |
| 2005 | 62 | 14.5 | -- | -- | 14.5 | 1.1 | 15.6 |
| 2006 | 67 | 14.7 | -- | -- | 14.7 | 0.1 | 14.8 |
| 2007 | 40 | 8.3 | -- | -- | 8.3 | 1.0 | 9.3 |
| 2008 | 144 | 29.0 | -- | -- | 29.0 | -- | 29.0 |
| 2009 | 28 | 5.5 | -- | -- | 5.5 | 1.8 | 7.3 |
| 2010 | 29 | 5.9 | -- | -- | 5.9 | 1.3 | 7.2 |
| 2011 | 15 | 3.1 | -- | -- | 3.1 | 1.7 | 4.8 |
| 2012 | 17 | 3.4 | -- | -- | 3.4 | 0.7 | 4.1 |
| 2013 | 13 | 2.6 | -- | -- | 2.6 | 0.6 | 3.2 |
| 2014 | 17 | 3.3 | -- | -- | 3.3 | 0.7 | 4.0 |
| 2015 | 17 | 3.3 | -- | -- | 3.3 | 0.7 | 4.0 |
| Subtotal | 459 | 96.1 | -- | -- | 96.1 | 10.5 | 106.6 |

Note: This appropriation provides for the procurement of the Army unique MIDS-LVT(2) variant.

| Annual Funding<br>3010 \| Procurement \| Aircraft 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 |
| 2001 | 29 | 8.5 | -- | 4.4 | 12.9 | 6.9 | 19.8 |
| 2002 | 118 | 32.5 | -- | -- | 32.5 | 10.2 | 42.7 |
| 2003 | 154 | 36.8 | -- | -- | 36.8 | 10.5 | 47.3 |
| 2004 | 107 | 24.4 | -- | -- | 24.4 | 13.8 | 38.2 |
| 2005 | 162 | 35.5 | -- | 0.1 | 35.6 | 4.4 | 40.0 |
| 2006 | 129 | 25.2 | -- | -- | 25.2 | 1.7 | 26.9 |
| 2007 | 152 | 31.1 | -- | -- | 31.1 | 3.4 | 34.5 |
| 2008 | 46 | 15.0 | -- | -- | 15.0 | 4.4 | 19.4 |
| 2009 | 23 | 6.7 | -- | -- | 6.7 | 1.9 | 8.6 |
| 2010 | 16 | 4.3 | -- | -- | 4.3 | 1.6 | 5.9 |
| 2011 | 38 | 10.3 | -- | -- | 10.3 | 2.3 | 12.6 |
| 2012 | 37 | 9.6 | -- | -- | 9.6 | 2.3 | 11.9 |
| 2013 | 30 | 8.1 | -- | -- | 8.1 | 1.8 | 9.9 |
| 2014 | 13 | 2.7 | -- | -- | 2.7 | 1.1 | 3.8 |
| 2015 | -- | -- | -- | -- | -- | -- | -- |
| 2016 | 3 | 1.6 | -- | -- | 1.6 | 0.7 | 2.3 |
| Subtotal | 1057 | 252.3 | -- | 4.5 | 256.8 | 67.0 | 323.8 |

| Annual Funding<br>3010 \| Procurement \| Aircraft Procurement, Air Force | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 2001 | 29 | 8.5 | -- | 4.4 | 12.9 | 7.0 | 19.9 |
| 2002 | 118 | 32.2 | -- | -- | 32.2 | 10.1 | 42.3 |
| 2003 | 154 | 35.9 | -- | -- | 35.9 | 10.2 | 46.1 |
| 2004 | 107 | 23.2 | -- | -- | 23.2 | 13.1 | 36.3 |
| 2005 | 162 | 32.8 | -- | 0.1 | 32.9 | 4.0 | 36.9 |
| 2006 | 129 | 22.7 | -- | -- | 22.7 | 1.5 | 24.2 |
| 2007 | 152 | 27.2 | -- | -- | 27.2 | 3.0 | 30.2 |
| 2008 | 46 | 12.9 | -- | -- | 12.9 | 3.8 | 16.7 |
| 2009 | 23 | 5.7 | -- | -- | 5.7 | 1.6 | 7.3 |
| 2010 | 16 | 3.6 | -- | -- | 3.6 | 1.3 | 4.9 |
| 2011 | 38 | 8.5 | -- | -- | 8.5 | 1.9 | 10.4 |
| 2012 | 37 | 7.8 | -- | -- | 7.8 | 1.8 | 9.6 |
| 2013 | 30 | 6.5 | -- | -- | 6.5 | 1.4 | 7.9 |
| 2014 | 13 | 2.1 | -- | -- | 2.1 | 0.9 | 3.0 |
| 2015 | -- | -- | -- | -- | -- | -- | -- |
| 2016 | 3 | 1.2 | -- | -- | 1.2 | 0.5 | 1.7 |
| Subtotal | 1057 | 230.8 | -- | 4.5 | 235.3 | 62.1 | 297.4 |

NOTE: This appropriation identifies the MIDS-LVT and MIDS JTRS core terminals that are planned for the F-16, B-2, AC-130, JSTARS, the Airborne Laser and US Air Force shore sites.

| Annual Funding<br>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 |
| 1996 | 6 | 3.0 | -- | -- | 3.0 | -- | 3.0 |
| 1997 | -- | -- | -- | 0.3 | 0.3 | -- | 0.3 |
| 1998 | 73 | 18.6 | -- | 15.2 | 33.8 | 1.0 | 34.8 |
| 1999 | 162 | 33.1 | 0.3 | -- | 33.4 | 2.1 | 35.5 |
| 2000 | 274 | 49.9 | 0.7 | 0.5 | 51.1 | 3.8 | 54.9 |
| 2001 | 143 | 26.9 | 0.6 | 4.5 | 32.0 | 1.0 | 33.0 |
| 2002 | 97 | 18.9 | -- | 5.6 | 24.5 | -- | 24.5 |
| 2003 | 2 | 0.4 | -- | -- | 0.4 | 5.2 | 5.6 |
| Subtotal | 757 | 150.8 | 1.6 | 26.1 | 178.5 | 13.1 | 191.6 |

| Annual Funding<br>3080 \| Procurement \| Other Procurement, Air Force | | | | | | | |
|---|---|---|---|---|---|---|---|
| Fiscal Year | Quantity | BY 2003 $M | | | | | |
| | | End Item Recurring Flyaway | Non End Item Recurring Flyaway | Non Recurring Flyaway | Total Flyaway | Total Support | Total Program |
| 1996 | 6 | 3.2 | -- | -- | 3.2 | -- | 3.2 |
| 1997 | -- | -- | -- | 0.3 | 0.3 | -- | 0.3 |
| 1998 | 73 | 19.3 | -- | 15.8 | 35.1 | 1.0 | 36.1 |
| 1999 | 162 | 33.9 | 0.3 | -- | 34.2 | 2.2 | 36.4 |
| 2000 | 274 | 50.4 | 0.7 | 0.5 | 51.6 | 3.9 | 55.5 |
| 2001 | 143 | 26.8 | 0.6 | 4.4 | 31.8 | 1.0 | 32.8 |
| 2002 | 97 | 18.5 | -- | 5.4 | 23.9 | -- | 23.9 |
| 2003 | 2 | 0.4 | -- | -- | 0.4 | 5.1 | 5.5 |
| Subtotal | 757 | 152.5 | 1.6 | 26.4 | 180.5 | 13.2 | 193.7 |

NOTE: This appropriation identifies the MIDS FDL terminals for the F-15C/D/E that are being procured on a separate contract. The FY96 funding ($3.0M) identified above, reports the Air Force funds contributed to the qualification and build of six FDL terminals. Additional funds in excess of $8M were contributed by the contractor, Data Link Solutions, for completion of the full qualification program requirements.

## Low Rate Initial Production

| Item | Initial LRIP Decision | Current Total LRIP |
|---|---|---|
| **Approval Date** | 5/11/2000 | 12/8/2003 |
| **Approved Quantity** | 70 | 544 |
| **Reference** | ADM | ADM |
| **Start Year** | 2000 | 2000 |
| **End Year** | 2001 | 2003 |

NOTE: The Milestone Decision Authority authorized Low Rate Initial Production (LRIP) on May 11, 2000 for 70 MIDS-LVT. Three additional LRIP decisions were authorized for a cumulative total of 544 MIDS-LVT and MIDS-LVT(2) variants, which was 25 percent of the then planned procurement of 2,145 terminals.

## Foreign Military Sales

| Country | Date of Sale | Quantity | Total Cost $M | Description |
|---|---|---|---|---|
| Australia | | 142 | 34.3 | |
| Austria | | 24 | | |
| Belgium | | 82 | 17.7 | |
| Canada | | 106 | 25.7 | |
| Denmark | | 3 | 0.9 | |
| Finland | | 21 | 4.0 | |
| Germany | | 10 | 6.4 | |
| Greece | | 40 | 6.9 | |
| Hungary | | 18 | 3.4 | |
| Japan | | 48 | 13.5 | |
| Morocco | | 30 | 4.8 | |
| Netherlands | | 5 | 4.2 | |
| New Zealand | | 3 | 0.7 | |
| Norway | | 77 | 22.9 | |
| Pakistan | | 27 | 4.7 | |
| Poland | | 71 | 15.1 | |
| Portugal | | 44 | 8.1 | |
| Saudi Arabia | | 165 | | |
| Singapore | | 24 | | |
| South Korea | | 16 | 5.9 | |
| Sweden | | 28 | 4.9 | |
| Switzerland | | 55 | 11.9 | |
| Taiwan | | 135 | 49.0 | |
| Turkey | | 232 | 44.5 | |

**Notes**

Foreign Military Sales (FMS) total costs not releasable for Saudi Arabia, Singapore and Austria.
Total Costs are cumulative over multiple years and FMS cases.

Direct Commercial Sales:

Direct commercial sales totaling 554 MIDS terminals have been implemented to date with Australia (2), Belgium (1), Denmark (77), Greece (4), Iceland (3), Japan (2), Korea (45), NACMA (3), Netherlands (147), NATO EF2000 and Tornado Management Agency (36), Norway (31), Turkey (6), and the United Kingdom (197). (Note: cost information for direct commercial sales is not available.)

Other Foreign Sales:

Other foreign sales for 14 MIDS terminals at a cost of $6.4M were implemented through Calendar Year 2009 with the European Participating Air Force (EPAF)(3) and a German competitive buy (22).

## Nuclear Costs

None

# Unit Cost

## Unit Cost Report

| Item | BY 2003 $M Current UCR Baseline (Mar 2010 APB) | BY 2003 $M Current Estimate (Dec 2009 SAR) | % Change |
|---|---|---|---|
| Program Acquisition Unit Cost | | | |
| Cost | 2475.5 | 2497.0 | |
| Quantity | 4553 | 4630 | |
| Unit Cost | 0.544 | 0.539 | -0.92 |
| Average Procurement Unit Cost | | | |
| Cost | 1149.5 | 1171.2 | |
| Quantity | 4150 | 4227 | |
| Unit Cost | 0.277 | 0.277 | 0.00 |

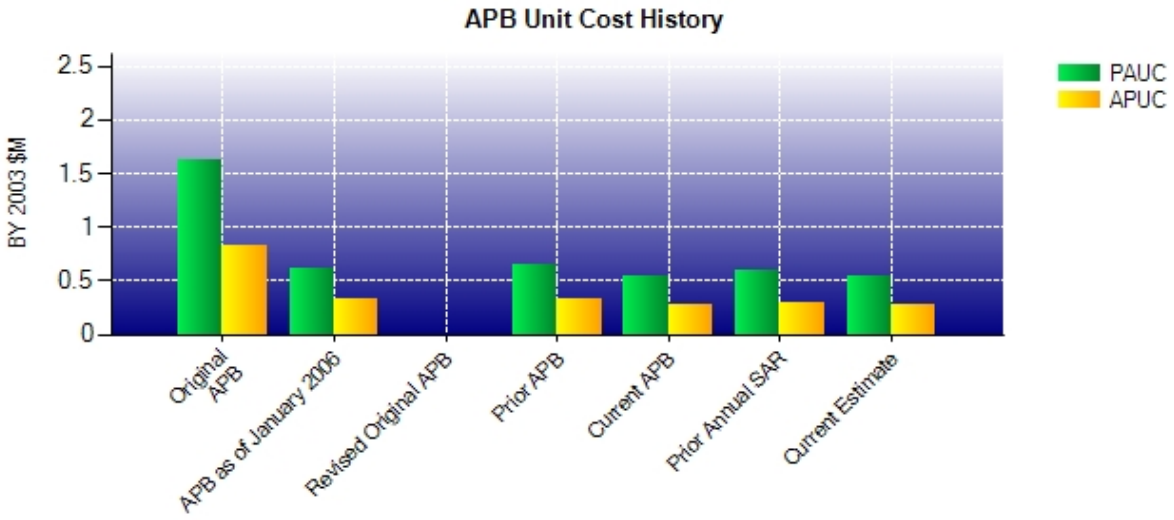
| Item | BY 2003 $M Original UCR Baseline (Mar 1994 APB) | BY 2003 $M Current Estimate (Dec 2009 SAR) | % Change |
|---|---|---|---|
| Program Acquisition Unit Cost | | | |
| Cost | 1091.4 | 2497.0 | |
| Quantity | 672 | 4630 | |
| Unit Cost | 1.624 | 0.539 | -66.81 |
| Average Procurement Unit Cost | | | |
| Cost | 523.7 | 1171.2 | |
| Quantity | 630 | 4227 | |
| Unit Cost | 0.831 | 0.277 | -66.67 |

| | MIDS-LVT Objective/Threshold | MIDS JTRS Objective/Threshold | MIDS Total Objective/Threshold |
|---|---|---|---|
| **Then-Year $M** | | | |
| RDT&E * | 891.8 N/A | 453.7 N/A | 1345.5 N/A |
| Procurement | 1103.0 N/A | 143.0 N/A | 1246.0 N/A |
| MILCON | 0.0 N/A | 0.0 N/A | 0.0 N/A |
| Acq O&M | 0.0 N/A | 0.0 N/A | 0.0 N/A |
| **Total Acquisition Cost** | 1994.8 N/A | 596.7 N/A | 2591.5 N/A |
| O&S | 859.9 N/A | 475.1 N/A | 1335.0 N/A |
| **Total Life Cycle Cost** | 2854.7 N/A | 1071.8 N/A | 3926.5 N/A |
| **Prog Acq Unit Cost ($M)** | 0.474 N/A | 1.715 N/A | 0.569 N/A |
| **Avg Proc Unit Cost ($M)** | 0.287 N/A | 0.466 N/A | 0.300 N/A |
| **Base-Year $M (BY 2003)** | | | |
| RDT&E* | 919.8 1011.8 | 405.6 446.2 | 1325.4 1457.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Procurement | 1028.9 | 1131.8 | 120.0 | 132.0 | 1148.9 | 1263.8 |
| MILCON | 0.0 | N/A | 0.0 | N/A | 0.0 | N/A |
| Acq O&M | 0.0 | N/A | 0.0 | N/A | 0.0 | N/A |
| Total Acquisition Cost | 1948.7 | 2143.6 | 525.6 | 578.2 | 2474.3 | 2721.7 |
| O&S | 655.6 | 721.2 | 320.1 | 352.1 | 975.7 | 1073.3 |
| Total Life Cycle Cost | 2604.3 | 2864.7 | 845.7 | 930.3 | 3450.0 | 3795.0 |
| | | | | | | |
| **Prog Acq Unit Cost ($M)** | 0.463 | 0.510 | 1.510 | 1.661 | 0.543 | 0.598 |
| **Avg Proc Unit Cost ($M)** | 0.268 | 0.295 | 0.391 | 0.430 | 0.277 | 0.305 |
| **Quantity** | | | | | | |
| RDT&E | 362 | N/A | 41 | N/A | 403 | N/A |
| Procurement ** | 3843 | N/A | 307 | N/A | 4150 | |

* RTD&E does not include European Funding ($40M [TY] / $33.2M [BY03])

## Unit Cost History




| Item | Date | BY 2003 $M | | TY $M | |
|---|---|---|---|---|---|
| | | PAUC | APUC | PAUC | APUC |
| Original APB | Mar 1994 | 1.625 | 0.831 | 1.666 | 0.931 |
| APB as of January 2006 | Jun 2004 | 0.616 | 0.339 | 0.614 | 0.352 |
| Revised Original APB | N/A | N/A | N/A | N/A | N/A |
| Prior APB | Mar 2006 | 0.656 | 0.339 | 0.661 | 0.352 |
| Current APB | Mar 2010 | 0.544 | 0.277 | 0.569 | 0.300 |
| Prior Annual SAR | Dec 2007 | 0.601 | 0.303 | 0.623 | 0.327 |
| Current Estimate | Dec 2009 | 0.539 | 0.277 | 0.566 | 0.301 |

### SAR Unit Cost History

| Initial SAR Baseline to Current SAR Baseline (TY $M) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Initial PAUC Development Estimate | Changes | | | | | | | | PAUC Production Estimate |
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 1.670 | -0.023 | -1.090 | 0.015 | -0.017 | 0.058 | 0.000 | 0.001 | -1.056 | 0.614 |

| Current SAR Baseline to Current Estimate (TY $M) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PAUC Production Estimate | Changes | | | | | | | | PAUC Current Estimate |
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.614 | 0.005 | -0.105 | -0.003 | 0.075 | -0.032 | 0.000 | 0.012 | -0.048 | 0.566 |

| Initial SAR Baseline to Current SAR Baseline (TY $M) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Initial APUC Development Estimate | Changes | | | | | | | | APUC Production Estimate |
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.931 | -0.019 | -0.520 | 0.016 | -0.036 | -0.021 | 0.000 | 0.001 | -0.579 | 0.352 |

| Current SAR Baseline to Current Estimate (TY $M) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| APUC Production Estimate | Changes | | | | | | | | APUC Current Estimate |
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 0.352 | 0.004 | -0.009 | -0.003 | -0.011 | -0.045 | 0.000 | 0.013 | -0.051 | 0.301 |

| SAR Baseline History | | | | |
|---|---|---|---|---|
| Item | SAR Planning Estimate | SAR Development Estimate | SAR Production Estimate | Current Estimate |
| Milestone I | N/A | N/A | N/A | N/A |
| Milestone II | N/A | Dec 1993 | Dec 1993 | Dec 1993 |
| Milestone III | N/A | N/A | N/A | Apr 2004 |
| IOC | N/A | Dec 2000 | May 2003 | May 2003 |
| Total Cost (TY $M) | N/A | 1119.5 | 1818.9 | 2619.3 |
| Total Quantity | N/A | 672 | 2964 | 4630 |
| PAUC | N/A | 1.666 | 0.614 | 0.566 |

Note: The baseline includes separate Milestone (MS) III decisions for the Low Volume Terminal (LVT) (1) and LVT(3) and a separate Initial Operational Capability (IOC) for each MIDS variant. A MS III decision was originally planned for the Army unique LVT(2) variant but it was replaced by a Full Rate Production decision approved by ASN(RD&A) in the Acquisition Decision Memorandum dated December 8, 2003.

## Cost Variance

| Summary TY $M | | | | |
|---|---|---|---|---|
| **Item** | **RDT&E** | **Procurement** | **MILCON** | **Total** |
| SAR Baseline (Production Estimate) | 825.8 | 993.1 | -- | 1818.9 |
| Previous Changes | | | | |
| Economic | +7.7 | +19.7 | -- | +27.4 |
| Quantity | +71.9 | +189.9 | -- | +261.8 |
| Schedule | -0.2 | -5.8 | -- | -6.0 |
| Engineering | +296.7 | -- | -- | +296.7 |
| Estimating | +44.6 | -47.6 | -- | -3.0 |
| Other | -- | -- | -- | -- |
| Support | -- | -23.1 | -- | -23.1 |
| Subtotal | +420.7 | +133.1 | -- | +553.8 |
| Current Changes | | | | |
| Economic | +0.3 | -2.5 | -- | -2.2 |
| Quantity | +2.3 | +266.1 | -- | +268.4 |
| Schedule | -- | -6.1 | -- | -6.1 |
| Engineering | +97.2 | -46.6 | -- | +50.6 |
| Estimating | -0.4 | -143.3 | -- | -143.7 |
| Other | -- | -- | -- | -- |
| Support | -- | +79.6 | -- | +79.6 |
| Subtotal | +99.4 | +147.2 | -- | +246.6 |
| Total Changes | +520.1 | +280.3 | -- | +800.4 |
| Current Estimate | 1345.9 | 1273.4 | -- | 2619.3 |

| Summary BY 2003 $M | | | | |
|---|---|---|---|---|
| **Item** | **RDT&E** | **Procurement** | **MILCON** | **Total** |
| SAR Baseline (Production Estimate) | 869.4 | 955.4 | -- | 1824.8 |
| Previous Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | +67.5 | +156.6 | -- | +224.1 |
| Schedule | -0.2 | -- | -- | -0.2 |
| Engineering | +267.0 | -- | -- | +267.0 |
| Estimating | +40.2 | -45.5 | -- | -5.3 |
| Other | -- | -- | -- | -- |
| Support | -- | -21.3 | -- | -21.3 |
| Subtotal | +374.5 | +89.8 | -- | +464.3 |
| Current Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | +1.9 | +219.7 | -- | +221.6 |
| Schedule | -- | -- | -- | -- |
| Engineering | +80.2 | -37.3 | -- | +42.9 |
| Estimating | -0.2 | -124.4 | -- | -124.6 |
| Other | -- | -- | -- | -- |
| Support | -- | +68.0 | -- | +68.0 |
| Subtotal | +81.9 | +126.0 | -- | +207.9 |
| Total Changes | +456.4 | +215.8 | -- | +672.2 |
| Current Estimate | 1325.8 | 1171.2 | -- | 2497.0 |

Previous Estimate: December 2007

| RDT&E | $M | |
|---|---|---|
| Current Change Explanations | Base Year | Then Year |
| Revised escalation indices. (Economic) | N/A | +0.3 |
| Decrease due to reduced RDT&E terminal quantities. (Quantity) | -2.5 | -2.9 |
| Increase due to procurement of additional MIDS-LVT (2) terminals. (Quantity) | +4.4 | +5.2 |
| Adjustment for current and prior escalation. (Subtotal) | -1.4 | -1.7 |
| Adjustment for current and prior escalation. (Estimating) | (-0.3) | (-0.3) |
| Adjustment for current and prior escalation. (DoD) (Estimating) | (-1.7) | (-2.0) |
| Adjustment for current and prior escalation. (Army) (Estimating) | (+0.3) | (+0.3) |
| Adjustment for current and prior escalation. (Air Force) (Estimating) | (+0.5) | (+0.6) |
| Adjustment for current and prior escalation. (Navy) (Estimating) | (-0.2) | (-0.3) |
| Increased funding for Enhanced Link-16. (Engineering) | +11.5 | +14.0 |
| Increased funding for Navy Crypto Modernization. (Engineering) | +40.5 | +48.9 |
| Increased for Platform Integration Engineering. (Engineering) | +2.2 | +2.4 |
| Decrease due to removal of Phase 2C Spec Development. (Engineering) | -2.6 | -3.0 |
| Increase for AF Crypto Modernization. (Engineering) | +28.6 | +34.9 |
| Increase due to estimating change/allocation for misc. engineering costs. (Estimating) | +2.9 | +3.3 |
| Funding reduced from $27.4M to $26.6M. (Estimating) | -0.7 | -0.8 |
| Increase due to increased quantity of terminals procured at a higher Average Unit Cost than baseline terminal configuration. (Estimating) | +4.1 | +4.8 |
| Decrease resulting from 2 year delay in the start of Enhanced Link 16. (Estimating) | -5.1 | -6.0 |
| RDT&E Subtotal | +81.9 | +99.4 |

| Procurement | $M | |
|---|---|---|
| Current Change Explanations | Base Year | Then Year |
| Revised escalation indices. (Economic) | N/A | -2.5 |
| Quantity variance resulting from an increase of 608 units from 1194 to 1802 (Navy). (Quantity) | +171.4 | +208.5 |
| Quantity variance resulting from a decrease of 6 units from 38 to 32 (Navy). (Quantity) | -1.7 | -2.3 |
| Quantity variance resulting from an increase of 30 terminals from 46 to 76 (Navy). (Quantity) | +8.5 | +9.9 |
| Quantity variance resulting from an increase of 155 units from 304 to 459 (Army). (Quantity) | +43.8 | +53.0 |
| Quantity variance resulting from a decrease of 8 units from 1065 to 1057 (Air Force). (Quantity) | -2.3 | -3.0 |
| Acceleration of procurement buy profile (Air Force). (Schedule) | 0.0 | -1.3 |
| Acceleration of procurement buy profile (Army). (Schedule) | 0.0 | -0.1 |
| Acceleration of procurement buy profile (Navy). (Schedule) | 0.0 | -4.7 |
| Correction to align support and flyaway. (Subtotal) | 0.0 | 0.0 |
| (Estimating) | (-0.4) | (-0.4) |
| (Support) | (+0.4) | (+0.4) |
| Adjustment for current and prior escalation. (Subtotal) | -7.1 | -8.7 |
| Adjustment for current and prior escalation. (Estimating) | (-0.7) | (-0.2) |
| Adjustment for current and prior escalation. (DoD) (Estimating) | (+0.2) | (+0.2) |
| Adjustment for current and prior escalation. (Navy) (Estimating) | (-0.3) | (-0.5) |

| | | |
|---|---|---|
| Adjustment for current and prior escalation. (Navy) (Estimating) | (+0.2) | (+0.2) |
| Adjustment for current and prior escalation. (Navy) (Estimating) | (+0.1) | (+0.1) |
| Adjustment for current and prior escalation. (Army) (Estimating) | (-7.4) | (-9.1) |
| Adjustment for current and prior escalation. (Air Force) (Estimating) | (-0.2) | (-0.2) |
| Adjustment for current and prior escalation. (Air Force) (Estimating) | (+0.8) | (+0.8) |
| Adjustment for current and prior escalation. (Support) | (+0.2) | (0.0) |
| Increase due to Platform Integration Misc. Engineering. (Engineering) | +3.0 | +3.0 |
| Changes in estimating assumptions for cost model. (Subtotal) | -41.0 | -43.4 |
| Changes in estimating assumptions for cost model. (Army) (Estimating) | (-8.7) | (-10.2) |
| Changes in estimating assumptions for cost model. (Navy) (Estimating) | (-2.3) | (-2.6) |
| Changes in estimating assumptions for cost model. (Navy) (Estimating) | (+0.2) | (+0.3) |
| Changes in estimating assumptions for cost model. (Navy) (Estimating) | (-30.2) | (-30.9) |
| Changes in estimating assumptions for cost model. (Air Force) (Estimating) | (0.0) | (0.0) |
| Decrease resulting from replacement of 2X2 transceiver with blank-off plates. (Engineering) | -40.3 | -49.6 |
| Increase in estimated other support costs (SW Maintenance). (Estimating) | +8.7 | +10.8 |
| Adjustment for difference between MIDS-LVT and MIDS JTRS Average Unit Cost. (Estimating) | -84.4 | -101.6 |
| Increase in Other Support (DoD). (Support) | +0.8 | +0.8 |
| Increase in Other Support (Navy). (Support) | +5.3 | +5.9 |
| Increase due to inclusion of Initial Spares (Navy). (Support) | +28.6 | +34.5 |
| Increase in Other Support (Navy). (Support) | +0.7 | +0.7 |
| Increase in Other Support (Army). (Support) | +9.6 | +11.4 |
| Increase in Other Support (Air Force). (Support) | +17.9 | +20.5 |
| Increase due to inclusion of Initial Spares (Air Force). (Support) | +4.6 | +5.4 |
| Increase in Other Support (Air Force). (Support) | +0.1 | +0.1 |
| Decrease in Initial Spares (Air Force). (Support) | -0.2 | -0.1 |
| Procurement Subtotal | +126.0 | +147.2 |

# Contracts

## Contract Identification

**Appropriation:** Procurement
**Contract Name:** MIDS Production Contract
**Contractor:** BAE SYSTEMS/ROCKWELL COLLINS DATA LINK SOLUTIONS L.L.C.
**Contractor Location:** CEDAR RAPIDS, IA 52498
**Contract Number:** N00039-00-D-2100
**Contract Type:** Firm Fixed Price (FFP)
**Award Date:** January 20, 2000
**Definitization Date:** June 07, 2000

| Contract Price | | | | | | | |
|---|---|---|---|---|---|---|---|
| Initial Contract Price ($M) | | | Current Contract Price ($M) | | | Estimated Price At Completion ($M) | |
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 16.1 | N/A | 27 | 342.5 | N/A | 1130 | 342.5 | 342.5 |

## Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

## Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

## Notes

This production contract includes First Article Qualification Test (FAQT), nonrecurring engineering, supportability, and the manufacture of MIDS-Low Volume Terminal (LVT)(1) and associated spares. Foreign Military Sales are not included in the supplemental contract cost information.

This is a Multiple Award Firm Fixed Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ)contract. Delivery Orders are competed between two vendors, ViaSat and DLS. Increase from Initial Contract Target Price to Current Contract Target Price reflects orders awarded to this vendor.

Contract is over 90% complete and will no longer be reported.

## Contract Identification

**Appropriation:** Procurement
**Contract Name:** MIDS Production Contract
**Contractor:** VIASAT, INC
**Contractor Location:** CARLSBAD, CA 92009
**Contract Number:** N00039-00-D-2101
**Contract Type:** Firm Fixed Price (FFP)
**Award Date:** January 20, 2000
**Definitization Date:** July 12, 2000

| Contract Price | | | | | | | |
|---|---|---|---|---|---|---|---|
| Initial Contract Price ($M) | | | Current Contract Price ($M) | | | Estimated Price At Completion ($M) | |
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 23.4 | N/A | 27 | 461.1 | N/A | 1573 | 461.1 | 461.1 |

## Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

## Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

## Notes

This production contract includes First Article Qualification Test (FAQT), nonrecurring engineering, supportability, and the manufacture of MIDS-LVT(1), MIDS-LVT(2) and associated spares. Foreign Military Sales are not included in the supplemental contract cost information.

This is a Multiple Award Firm Fixed Price (FFP) Indefinite Delivery Indefinite Quantity (IDIQ) contract. Delivery Orders are competed between the two vendors, DLS and ViaSat. Increase from Initial Contract Target Price to Current Contract Target Price reflects orders awarded to this vendor.

Contract is over 90% complete and will no longer be reported.

## Contract Identification

**Appropriation:** Acq O&M
**Contract Name:** SE&I
**Contractor:** BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION I
**Contractor Location:** WAYNE, NJ 07470
**Contract Number:** N00039-00-D-2102
**Contract Type:** Firm Fixed Price (FFP), Time and Materials (TM)
**Award Date:** June 19, 2000
**Definitization Date:** June 19, 2000

| Contract Price | | | | | | | |
|---|---|---|---|---|---|---|---|
| Initial Contract Price ($M) | | | Current Contract Price ($M) | | | Estimated Price At Completion ($M) | |
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 1.7 | N/A | 0 | 56.4 | N/A | 0 | 56.4 | 56.4 |

## Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

## Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP/TM) contract.

## Notes

This Systems Engineering and Integration (SE&I) contract was awarded to BAE Systems North America on June 19, 2000 in preparation for the transition of the Engineering and Manufacturing Development (EMD) responsibilities from the cooperative international development contract with MIDSCO on June 30, 2000. The initial target cost of $1.7M included funding for the first delivery order. By the agreement of the MIDS International Steering Committee (SC), the SE&I contract to BAE Systems was extended on June 30, 2005 and included one base year and three option years for continued core software support.

This is a Firm Fixed Price (FFP) Time & Material (TM) contract. Increase from Initial Contract Target Price to Current Contract Target Price is attributable to the contract extension awarded on June 30, 2005.

This contract is over 90% complete and will no longer be submitted.

## Contract Identification

**Appropriation:** RDT&E
**Contract Name:** MJ Dev. CLIN 3000/3005
**Contractor:** BAE SYSTEMS/ROCKWELL COLLINS DATA LINK SOLUTIONS L.L.C.
**Contractor Location:** CEDAR RAPIDS, IA 52498
**Contract Number:** N00039-00-D-21J0
**Contract Type:** Cost Plus Incentive Fee (CPIF)
**Award Date:** December 23, 2004
**Definitization Date:** May 06, 2005

| Contract Price | | | | | | | |
|---|---|---|---|---|---|---|---|
| Initial Contract Price ($M) | | | Current Contract Price ($M) | | | Estimated Price At Completion ($M) | |
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 82.1 | N/A | 10 | 86.4 | N/A | 10 | 136.6 | 136.6 |

## Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

| Contract Variance | | |
|---|---|---|
| Item | Cost Variance | Schedule Variance |
| Cumulative Variances To Date (9/30/2009) | -35.1 | -1.8 |
| Previous Cumulative Variances | -3.6 | -5.3 |
| Net Change | -31.5 | +3.5 |

## Cost and Schedule Variance Explanations

## General Contract Variance Explanation

The ordering period for this contract ended on January 19, 2010. There are no earned value metrics past September 30, 2009 since all costs were 100% contractor costs after that date as a result of a cost cap agreement between the Program Office and the vendor.

## Notes

DLS' re-baseline of EVM data in accordance with the June 2007 contract modification allowed the vendor Over Target Budget (OTB) and Over Target Schedule (OTS) Earned Value Management adjustments. As part of those negotiations, contract Target Cost was not adjusted so that DLS only earned minimum fee on the contract. In April 2008 after additional contract schedule delays and cost overruns were incurred, the PM negotiated with DLS a final government cost cap to complete the program that transferred cost of any further delays to industry. No adjustment was made to contract Target Cost in the April 2008 contract modification.

Changes from Initial Contract Target Price to Current Contract Target Price are due to minor scope increases via incorporation of Engineering Change Proposals throughout the life of the contract.

Contract is over 90% complete and will no longer be reported.

## Contract Identification

**Appropriation:** RDT&E
**Contract Name:** MJ Dev. CLIN 3000
**Contractor:** VIASAT, INC
**Contractor Location:** CARLSBAD, CA 92009
**Contract Number:** N00039-00-D-21J1
**Contract Type:** Cost Plus Incentive Fee (CPIF)
**Award Date:** December 23, 2004
**Definitization Date:** June 01, 2005

| Contract Price | | | | | | | |
|---|---|---|---|---|---|---|---|
| Initial Contract Price ($M) | | | Current Contract Price ($M) | | | Estimated Price At Completion ($M) | |
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 60.8 | N/A | 10 | 65.1 | N/A | 10 | 139.9 | 139.9 |

## Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

| Contract Variance | | |
|---|---|---|
| Item | Cost Variance | Schedule Variance |
| Cumulative Variances To Date (10/31/2009) | -39.5 | -1.3 |
| Previous Cumulative Variances | -6.9 | -4.6 |
| Net Change | -32.6 | +3.3 |

## Cost and Schedule Variance Explanations

## General Contract Variance Explanation

The ordering period for this contract ended on January 19, 2010. Thereare no earned value metrics pastSeptember 30, 2009 since all costs are 100% contractor costs after that date as a result of a cost cap agreement between the Program Office and the vendor.

## Notes

ViaSat's re-baseline of EVM data in accordance with the June 2007 contract modification allowed the vendor Over Target Budget (OTB) and Over Target Schedule (OTS) Earned Value Management adjustments. As part of those negotiations, contract Target Cost was not adjusted so that ViaSat only earned minimum fee on the contract. In April 2008 after additional contract schedule delays and cost overruns were incurred, the PM negotiated with ViaSat a final government cost cap to complete the program that transferred cost of any further delays to industry. No adjustment was made to contract Target Cost in the April 2008 contract modification.

Increase in Initial Contract Target Price to Current Contract Target Price is due to minor scope increases via incorporation of Engineering Change Proposals throughout the life of the contract.

Contract is over 90% complete and will no longer be reported.

## Deliveries and Expenditures

| Deliveries | | | | |
|---|---|---|---|---|
| **Delivered to Date** | **Planned to Date** | **Actual to Date** | **Total Quantity** | **Percent Delivered** |
| Development | 335 | 321 | 403 | 79.65% |
| Production | 2917 | 3212 | 4227 | 75.99% |
| Total Program Quantity Delivered | 3252 | 3533 | 4630 | 76.31% |

| **Expended and Appropriated (TY $M)** | | | |
|---|---|---|---|
| Total Acquisition Cost | 2619.3 | Years Appropriated | 21 |
| Expended to Date | 2184.2 | Percent Years Appropriated | 77.78% |
| Percent Expended | 83.39% | Appropriated to Date | 2348.3 |
| Total Funding Years | 27 | Percent Appropriated | 89.65% |

# Operating and Support Cost

## Assumptions and Ground Rules

The Operating & Support Cost portion of the Independent Cost Estimate (ICE), updated December 2009 depicts 4150 MIDS terminals which have a 20-year operational life. This period includes a phase-in, steady state, and phase-down profile for a total 33-year support period. The annual operating hours per aircraft for peacetime deployment are estimated to be approximately 400. The annual operating hours per ship for peacetime deployment are estimated to be 3977. The annual operating hours per Army Ground Air Defense station are estimated to be 2212. For Navy aircraft and Army platforms O&S is a three level structure (i.e., Organizational, Intermediate/Direct Support, and Depot). For Navy ships and Air Force aircraft platforms it is a two level structure (i.e., Organizational and Depot). Navy aircraft support costs assume the use of the Consolidated Automated Support System at the Intermediate level of maintenance. The terminal reliability and maintainability characteristics used are consistent with the requirements contained in the Operational Requirements Document (ORD). Other pertinent cost estimates include use of values experienced by analogous systems including the Joint Tactical Information and Distribution System (JTIDS) and the AN/ARC-182 radio. The MIDS-LVT terminal does not replace an existing DOD system in that it provides Link 16 capability to platforms that were unable to employ JTIDS due to space and weight constraints; there is no antecedent system.

Cost Estimate Reference:
None

Sustainment Strategy:
None

Antecedent Information:
None

Unitized O&S Costs BY2003 $K

| Cost Element | MIDS Avg Annual Cost Per Terminal | Antecedent System (Antecedent) |
|---|---|---|
| Mission Pay & Allowance | -- | -- |
| Unit Level Consumption | 0.300 | -- |
| Intermediate Maintenance | -- | -- |
| Depot Maintenance | 0.500 | -- |
| Contractor Support | 5.700 | -- |
| Sustaining Support | 5.200 | -- |
| Indirect | 0.000 | -- |
| Other | 0.000 | -- |
| Total | 11.700 | -- |

Unitized Cost Comments:
None

| Item | Total O&S Cost $M | | | |
|---|---|---|---|---|
| | MIDS | | | Antecedent System (Antecedent) |
| | Current Production APB Objective/Threshold | | Current Estimate | |
| **Base Year** | 975.7 | 1073.3 | 975.7 | N/A |
| **Then Year** | 1335.0 | N/A | 1335.0 | N/A |

Total O&S Cost Comment
None

## Disposal Estimate Details

**Date of Estimate:**

**Source of Estimate:**

**Disposal/Demilitarization Total Cost (BY 2003 $M):**