

Integrated Family of Test Equipment (IFTE)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Develops, acquires, fields, and sustains automatic test equipment with the capability to troubleshoot, isolate, and diagnose faults, as well as verify the operational status of the weapon system.

DESCRIPTION

The Integrated Family of Test Equipment (IFTE) consists of interrelated, integrated, mobile, tactical, and man-portable systems. These rugged, compact, lightweight, general-purpose systems enable verification of the operational status of weapon systems, as well as fault isolation to the line-replaceable unit at all maintenance levels, both on and off the weapon system platform.

Base Shop Test Facility–Version 3 (BSTF(V)3):

The BSTF(V)3 is an off-platform automatic test system that tests electronic Line Replaceable Units (LRU) and Shop Replaceable Units (SRU) of ground and aviation systems.

Electro-Optics Test Facility (EOTF):

The EOTF tests the full range of Army electro-optical systems, including laser transmitters, receivers, spot trackers, forward-looking infrared systems, and television systems. It is fully mobile with VXI instrumentation, touch-screen operator interface, and an optical disk system for test program software and electronic technical manuals.

Next Generation Automatic Test System (NGATS):

The NGATS is the follow-on reconfigurable, rapidly deployable, expeditionary, interoperable tester and screener that supports Joint operations, reduces the logistics footprint, and replaces and consolidates obsolete, unsupportable automatic test equipment in the Army's inventory.

Maintenance Support Device–Version 3 (MSD-V3):

The latest generation MSD is a lightweight, rugged, compact, man-portable, general-purpose, at-platform automatic tester that has a docking station, detachable core tablet, and swivel and touch screen capabilities. It is used to verify the operational status of aviation, automotive, watercraft, electronic, and missile weapon systems and to isolate faulty components for immediate repair or replacement. MSD-V3 hosts Interactive Electronic Technical Manuals and the Digital Logbook, acts as a software uploader/verifier to provide or restore mission software to weapon systems, and supports condition-based maintenance data collection and reporting. MSD-V3 supports more than 50 weapon systems and is used by more than 40 military occupational specialties.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **1QFY12:** NGATS Limited Users Test 2
- **2QFY12:** NGATS delivery to Anniston Army Depot
- **4QFY12:** NGATS delivery to Red River Army Depot
- **Current:** MSD-V3 fielding
- **Current:** EOTF operations and support

PROJECTED ACTIVITIES

- **3QFY14:** MSD-V4 Contract Award
- **3QFY14:** NGATS first unit equipped

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Integrated Family of Test Equipment (IFTE)



SWICE Kit

ICE Test Adapter Set (bottom)



Digital Data Bus Set (top)



Communicates via Wireless Diagnostic Sensor (WDS)



Transmits Analog and Digital Vehicle Health Data to MSD for Analysis



MSD-V3
AAO: 40,059

WDS



Notes:

- * For use with analog vehicles
- ** For use with digital vehicles

FOREIGN MILITARY SALES

MSD:

Afghanistan, Australia, Bahrain, Chile, Djibouti, Egypt, Ethiopia, Germany, Israel, Iraq, Jordan, Korea, Kuwait, Lithuania, Macedonia, Morocco, Netherlands, Oman, Poland, Portugal, Saudi Arabia, Taiwan, Turkey, United Arab Emirates, Uzbekistan, Yemen

CONTRACTORS

MSD-V3:

Vision Technology Miltope Corp.
(Hope Hull, AL)

BSTF(V)3:

Northrop Grumman (Rolling Meadows, IL)

EOTF:

Northrop Grumman (Rolling Meadows, IL)

NGATS:

Northrop Grumman (Rolling Meadows, IL)
DRS-TEM (Huntsville, AL)

