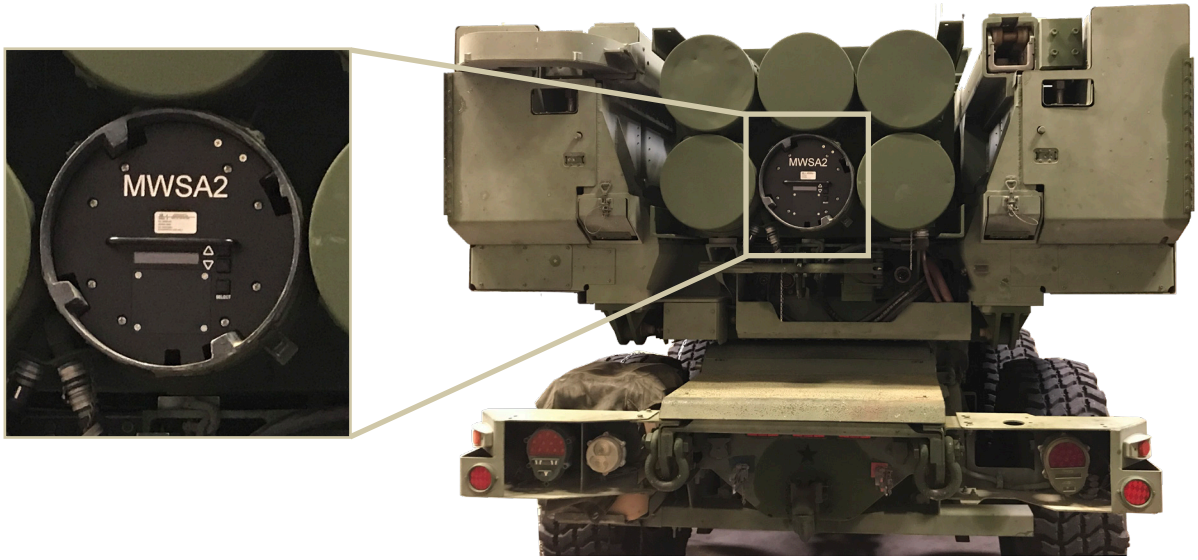
MLRS WEAPONS SIMULATOR A2 (MWSA2)

Train using Tactical Launcher Software



The MWSA2 provides the capabilty to Train with Tactical Launcher Software and maintain competency in Weapon Platform Essential Tasks using normal Tactics, Techniques and Procedures

The MWSA2 simulates the various types of munitions fired during practice, test and troubleshooting of the launcher's hardware and software systems without using live rounds.

The MWSA2 operates in two modes; Tactical and Non-Tactical.

In Tactical mode, the MWSA2 performs a high fidelity weapons simulation including tactical responses to all mode sequences executed during pre-launch and launch operations. The MWSA2 exercises the Tactical launcher software and circuits in the same manner as a live round, providing realistic execution and crew training capability.

The MWSA2 is passive in Non-Tactical mode, simply functioning as a set of Weapon and Fault switches that are read and interpreted by the launcher to determine which training software is executed. The Trainer functionality replicates the weapons interface to the crew but does not activate the tactical interface.

Having both Tactical and Training capability in the MWSA2 provides maximum flexibility for operators.

WEAPONS INVENTORY

Weapon rounds are automatically reloaded by default upon firing and require no user operation to restore rounds. A reload operation from the launcher may be initiated immediately following a fire mission. The operator also has the option to configure the MWSA2 to only reload manually.

WEAPONS SIMULATED:

- Guided MLRS (DIPCM)
- Guided Unitary
- Guided Extended Range
- Block 1 ATACMS
- Block 1A ATACMS
- ATACMS 2K
- FMS ATACMS
- M77 (DIPCM) Rockets
- Extended Range Rockets
- Reduced Range Practice Rounds
- AT-II (UK) Mines

INTERFACE

The MWSA2 interfaces mechanically and electrically to the launcher in the same manner as a tactical weapon pod. The MWSA2 is mounted in a modified expended Missile Launcher Pod Assembly (MLPA) to replicate tactical munitions. The MWSA2 MLPA utilizes the same connectors as a tactical MLPA, creating realistic connections in Tactical mode, though non-tactical connections are also supported. The MLPA pods match the tactical munition weight and center of gravity for realistic simulation. After loading the MWSA2 MLPA and stowing the LLM, the launcher will identify the selected munitions and initiate weapons processing. Once installed, the MWSA2 may remain in the MLPA for use indefinitely.

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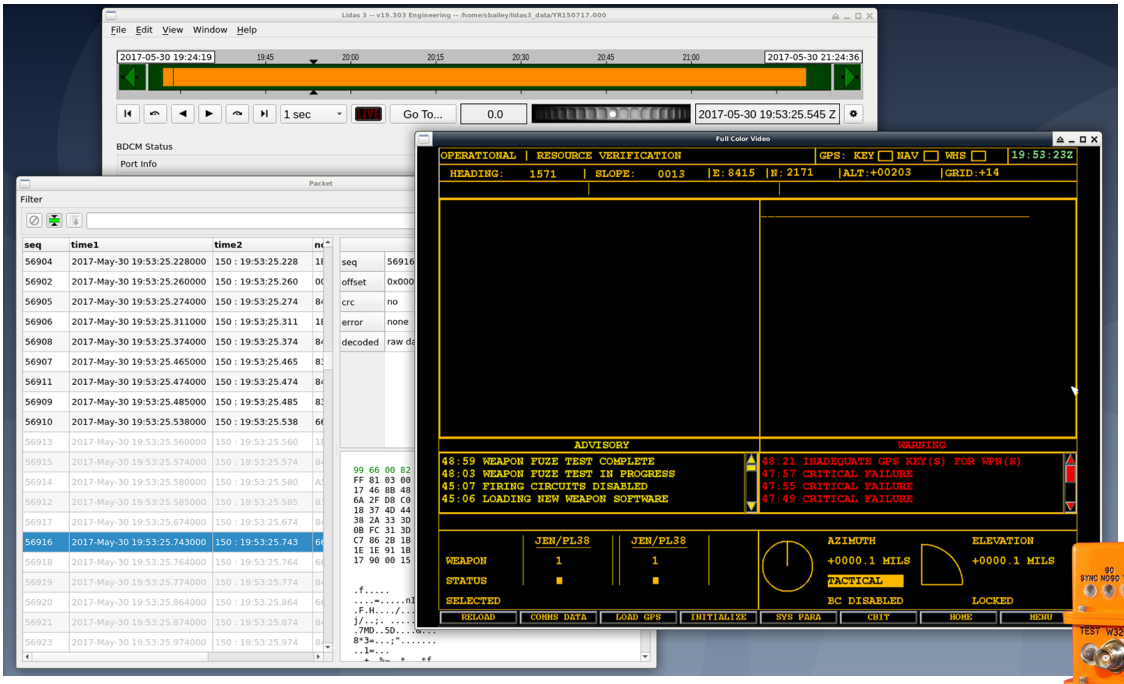
CUBIC

Launcher Instrumentation and Data Acquisition System (LIDAS)



LIDAS has been fielded to U.S. Army, Germany, U.K., France, Korea and Japan

BDCM

The Launcher Instrumentation and Data Acquisition System (LIDAS) is used for operational testing and validation of MLRS and HIMARS artillery systems. LIDAS allows collection of low level test parameters to verify and/or troubleshoot launcher operations. All data transmissions between the launcher and munitions are recorded for evaluation of the launch sequence.

SOFTWARE

LIDAS software application provides real-time monitoring and simultaneous recording of a diverse set of data buses and interface devices. It provides playback of recorded files, generates reports, and performs detailed translation of recorded files. LIDAS software provides the tools to evaluate all critical launch processes. It requires a Windows operating system and a Serial port or Ethernet.

HARDWARE

A Bus Data Conversion Module (BDCM) records all LIDAS data and transmits the data via Ethernet or RF Telemetry to the software. The BDCM connects to (up to three) Signal Distribution Hubs (SDH) that connect interface devices to the Launcher Interface Unit (LIU), Weapon Interface Unit (WIU) and Position and Navigation Unit (PNU). The interface devices collect and time stamp data using the IRIG-B standard time-code, and then transmit that data to the BDCM. The BDCM combines all data traffic and records selected data to an internal storage device.

- » BDCM monitors over 200 launcher interface signals
- » Transparent to operations; break-in cables installed inline with tactical interfaces
- » Orange instrumentation devices are easily distinguished from tactical hardware
- » Utilized on all MLRS launcher configurations; M270, M270A1 IFCS, HIMARS IFCS, HIMARS UFCS, M270B1/2 (UK), CFCS

All Live Fire Training at the White Sands Missile Range (WSMR) requires LIDAS to be installed on the Launchers

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