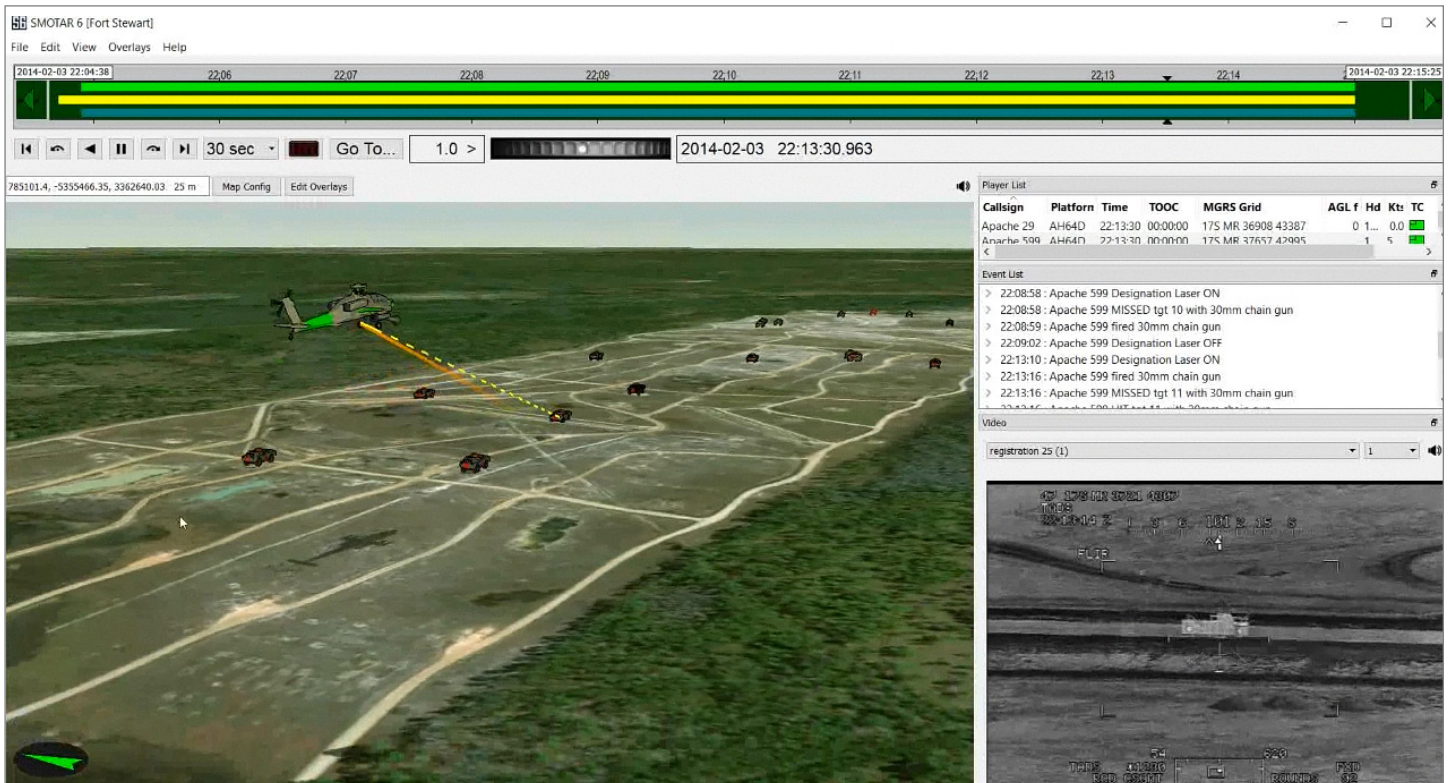


# SMODIM TRACKING, ANALYSIS AND RECORDING (SMOTAR)

## Real-Time Situational Awareness and In-Depth After Action Review



An advanced software suite that provides a complete overview of the networked training area and cooperative players in near real-time. Its interactive capability allows the user to develop training exercises, monitor live engagements, and record and playback events for After Action Review (AAR).

### SITUATIONAL AWARENESS

SMOTAR maintains a dynamic position database through player-to-player communications. GPS provides real-time position data as instrumented players are dynamically tracked and recorded. The user can pause, rewind and fast-forward live data feeds without interrupting recording of new data. Player icons are displayed in 3D with editable color-coded teams and call signs.

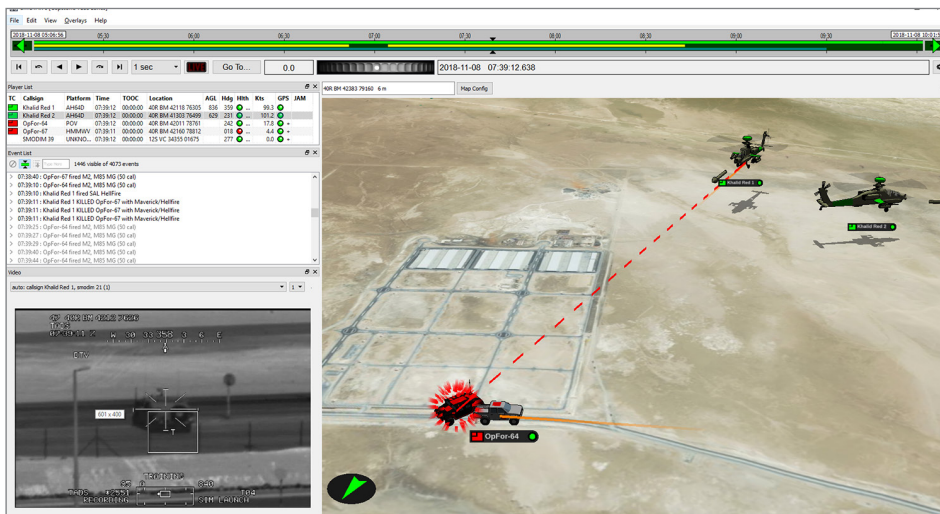
### AFTER ACTION REVIEW

Aircraft video is collected and imported with Pilot and CPG audio, then synchronized with playback. The user can advance quickly through the video to locate events of interest. This is used to evaluate crew and team training, enhance post mission debriefs and After Action Reviews (AAR), and increase crew proficiency.



*The SMOTAR Workstation can be connected to a monitor in a Tactical Operations Centers (TOC). It is ultra rugged, encrypted, and certified to military standards.*





## REAL-TIME DATA

Player position and status updates are received from the Smart Onboard Data Instrumentation Module (SMODIM) aircraft player unit. Data is transmitted through the telemetry network with event reports such as weapon fire and engagement results. SMOTAR creates a 3D rendered visualization using this player position and event data.

Mobile and permanent telemetry antenna systems provide scalable RF coverage and transmit live feed across multiple sites. Telemetry-based, real-time views of the battleground are extended and enhanced with synchronous data feeds from tactical and digital systems and other Live Virtual Constructive (LVC) simulations.

SMOTAR Workstations include software updates for three years with telephonic and help desk support.



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Real-time data includes player Position Location (PL), heading, velocity, sensor heading, sight azimuth, weapon events, dead/alive status, Aircraft Survivability Equipment (ASE) status, and Real Time Casualty Assessment (RTCA).

## WEAPON ENGAGEMENTS

SMOTAR integrates with the SMODIM and TESS instrumentation for monitoring and tracking simulated and live fire weapon engagements. Weapons are simulated using MILES and Geometric Pairing. SMOTAR automatically adjudicates simulated indirect fires. Administrative Command has oversight to deny fires for safety and risk mitigation during live fire training.



## WEAPON SCORING

Teamed with Meggitt Defense, SMOTAR integrates with the Aerial Weapon Scoring System (AWSS) that provides near real-time scoring information for attack helicopter training on instrumented ranges. The Scoring Display shows selected data collected from the AWSS interface, including aircrew and aircraft data, range to target, munition time-of-flight, target silhouettes, rocket target engagement areas, and all munition and Laser detection events. A signal to the target lifter indicates when target effect is achieved. Printed score reports are generated for each target along with a chronological list of scoring events.

## SMOTAR FEATURES & BENEFITS

- » Real-Time Tracking & Recording
- » CTC-Caliber Training at Home Stations
- » Weapons Simulation using MILES and Geometric Pairing
- » Aircraft Video/Audio Synch
- » Area Weapon Effects
- » Administrative Commands
- » Dynamic Position Database
- » User Definable Maps & Graphics
- » Real-Time Casualty Assessment
- » Immediate After Action Review

**ANY MISSION, ANY ENVIRONMENT, ANY PLATFORM**