



Advanced Correlation & Tracking System (ACTS)[™]

ADVANCED MULTI-SOURCE DATA INTEGRATION

Features

- Real-time information provides time critical operational track data
- Single Integrated Picture (SIP) integrates a wide variety of mobile and fixed sensors into a unified tactical picture
- Tracking clarity achieves exceptional track picture clarity in the most challenging environments
- Ease of use adapts easily to multiple mission configurations

Overview

Sensor integration

To overcome the challenge of complex, multi-source battlefield data overwhelming operators, Ultra I&C's ACTS delivers mission-critical information management through seamless sensor integration and real-time tracking. Its open architecture supports diverse sensor interfaces and field customization, while the integrated data link processor enables robust multi-source tactical data reception, forwarding, and display.

Industry-leading track correlation

Numerica, an Anduril company, and world leader in network-centric tracking and data correlation, is partnered with Ultra I&C to provide the high-performance tracking components used in ACTS.

ACTS processes and correlates multi-sensor track data into a real-time Single Integrated Picture (SIP), delivering superior situational awareness with unmatched clarity and accuracy in the most demanding operational environments.

Simple configuration

Using any standard web browser, operators can access Ultra I&C's ACTS by simply entering the host IP address. The intuitive web interface streamlines sensor configuration, supported by comprehensive built-in help documentation.

Decision confidence

ACTS provides comprehensive tracking capabilities, from rapid sensor integration to real-time correlation and reporting, with global deployment options for test ranges and forward operations. An optional fusion tracking engine featuring Multiple Hypothesis Tracking with MultiFrame Assignment delivers superior accuracy through reduced dual tracks and enhanced track continuity in demanding environments.

System specifications

Flexible solutions scaled to mission requirements

INPUT SUPPORT

Common Data Format

- All ARSR radar types
- (ARSR-1D, 1E, 2, 3, 4 etc.)
- ASTERIX
- ASR-7, 8, 9 and 11
- CD1
- CD2/CD2A
- CD2C/CD2T
- ECGP
- NATS/ATS/RES
- SDO/MAR1/3
- SGF/SRR/RBD
- 9-bit digital format

Specific Sensors

- AN/TPN-31 ATNAVICS
- AN/TPS-59/63
- AN/TPS-70/73/75
- AR327
- GIRAFFE
- LSTAR
- Sensis multilateration system
- WATCHMAN

Other Types

- Sensis SIU
- Sunhillo SGU
- Customized inputs available

OUTPUT SUPPORT

Displays

- TacViewC2 software
- ASTERIX
- Air Defense Systems Integrator ADSI® compatible
- Google Earth (KML)

HARDWARE REQUIREMENTS

The ACTS software runs on COTS hardware consisting of:

- Quad core system(s) with 16 GB of RAM
- Red Hat Enterprise Linux operating system
- Standard 19" rack-mountable hardware (rugged hardware variants available)

The ACTS product is accessible from any system that can run a standard Web browser. Operators can use ACTS software stand-alone or from within the TacViewC2™ interface: Ultra's mission-oriented real-time tactical display.

Intuitive scenario recording, playback, and track filtering with real-time sensor status monitoring and plot data visualization.

ACTS Family of Products

- Rugged rack-mount hardware available
- Ballistic object tracking can be added to ACTS Regional, Theater and Global product offering

Product	Sensor capacity	Server rack space required
ACTS Mobile	4	1U*
ACTS Regional	15	1U
ACTS Theater	30	2U
ACTS Global	31+	3U+

*Also available on the Range Guardian, a portable 3U CompactPCI® computer

ACTS is available for international customers.