



Advanced Correlation & Tracking System (ACTS)TM

State-of-the-Art Multi-Source Integration

The ACTS solution is configurable from any system that can run a standard Web browser.

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

Ultra understands that reliable and synchronized management of information on the battlefield is mission critical. That is why ACTS combines ease-of-use, seamless sensor integration and high performance real-time tracking in a single solution.

The ACTS open architecture provides a wide variety of sensor interfaces and can easily be customized in the field to meet customer needs. Combined with a data link processor, this robust solution receives, forwards and displays tactical information from multiple inputs.

Industry leading track correlation

Numerica, a world leader in network-centric tracking and data correlation, is partnered with Ultra to provide the

high-performance tracking components in the ACTS products.

The ACTS solution is capable of handling track data in the most complex environments. It correlates tracks from multiple sensors into a Single Integrated Picture (SIP), resulting in unsurpassed track completeness, clarity and accuracy delivered in real time.

Simple configuration

The ACTS solution is configurable from any system that can run a standard Web browser. Simply point the Web browser URL to the ACTS host IP address to start using the software. The Web interface makes it easy to add and configure the sensors. The built-in help system provides quick access to configuration setting details.

Decision confidence

ACTS offers an unparalleled end-to-end tracking solution, from rapid sensor integration to real-time track correlation and reporting.

ACTS is available now for installation at test ranges and forward-deployed environments around the world.

ACTS is also available with an optional fusion tracking engine that provides Multiple Hypothesis Tracking with Multi-Frame Assignment for the most demanding environments. The results are fewer dual tracks, zoomers and more continuous tracks with better accuracy.

System Specifications

Ultra offers scalable ACTS products to suit your needs.** Operator and maintenance training is available, and the ACTS software has a built-in user-friendly help system.

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.

It is easy to record and playback scenarios, view raw plot data, monitor a sensor's status and filter the track display based on operator criteria.

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.

Ultra reserves the right to vary these specifications without notice.

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