

Multi Source Correlator Tracker (MSCT)



MSCT is a proven, high-performance COTS tracking and data processing engine that synthesizes track, data link, and sensor information from multiple, dissimilar sources and provides a Single Integrated Picture.

Benefits

- Object-oriented design supports adaptation to multiple mission areas
- Combines track management and data correlation capabilities
- Processes real-time plot and track inputs
- Built-in Link 11/16 and Force order processing
- Built-in simulation generation capability via Distributed Interactive Simulation (DIS)
- Adapts to wide range of legacy processing and communication configurations
- WAN/LAN capable
- Machine-independent ANSI C++ implementation
- Current deployments have been validated at >17,000 tracks and > 20,000 plot updates per second

MSCT integrates a wide range of sensor, link, and legacy track data into a Single Integrated Picture (SIP). MSCT operates in both mobile and fixed applications, providing capability to a variety of platforms in all branches of the U. S. and international armed forces.*

The machine-independent nature of the implementation encourages technology refresh and rapid Commercial Off-The-Shelf (COTS) insertion. New application areas and systems can be rapidly integrated using an object-oriented structure that employs standard internet and serial protocols.

MSCT is a component of the United States Marine Corps (USMC) Air Defense Communications Platform Enhancement Package (ADCP-EP) architecture, which has

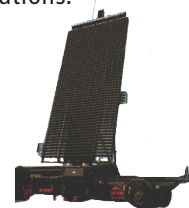
been certified to support specific Link-16 messages.

All original source information is maintained on tracks and can be associated with other data when a track correlation occurs. Multiple MSCTs in remotely located positions can exchange information using J-Series message formats.

Built-in scenario track generation, input data recording, and playback functions can all be configured to use MSCT in test and evaluation, training, and concurrent real-time operational situations.

MSCT has a Graphical User Interface (GUI) that provides tactical operators with a tailored visual interface to support mission monitoring and operations.

Standard configurations can be purchased directly on General Services Administration (GSA) Schedule GS-35F-0069L or tailored configurations can be developed for specific applications.



*MSCT requires an export license for all international sales

Multi Source Correlator Tracker

Systems Supported**

- Global Command and Control System (GCCS)
- Joint Range Extension (JRE)
- USAF/USMC Tactical Air Operations Module (TAOM)
- Situational Awareness Data Link (SADL)
- Distributed Interactive Simulation (DIS)
- Automated Air Movement Data System (AAMDS)
- Tactical Digital Information Link (TADIL) A/B/J and Data Link Routers (ADSI, MTDS, IMTDS MSCS, TCG LinkPRO)
- Ground-Based Data Link (GBDL), Ground-Based Data Link Extended (GBDL-E)
- Data Terminal Set Simulator Link-16 (DTSS-16)
- Flight Explorer
- Precision Lightweight GPS Receiver (PLGR)
- Forward Area Air Defense Data Link (FAADL)
- Sensis (SIU)

Radars Supported**

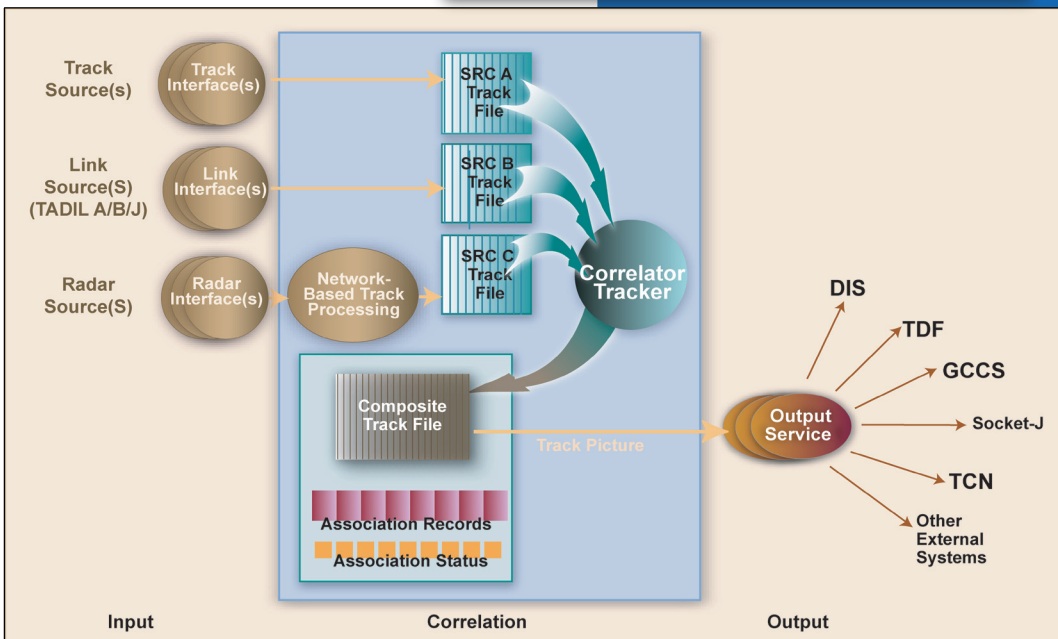
- All ARSR radar types (ARSR-1D, 1E, 2, 3, 4, etc.)
- ASR-7, 8, and 9
- Many AN/TPS types (AN/TPS-43, AN/TPS-59, AN/TPS-73 (TADIL-B only), AN/TPS-75, etc.)
- AN/FPS-66, AN/FPS-67, AN/FPS-20, AN/FPS-117, etc.
- AN/MPQ-64 (Sentinel)

Data Formats Supported**

- AAMDS
- ASTERIX
- CD2/CD2A
- DIS
- DTE
- GBDL
- GCCS
- JREAP
- OTH-Gold
- RRDL
- SGF
- SIP
- TADIL-B
- TADIL-J
- TRAP/TRE†
- TIBS/TDIMF†
- USMTF†
- TACELINT†
- TACREP†
- SENSOREP†



- Near-real-time and non-real-time correlation
- Multiple simultaneous inputs/outputs
- Source data maintained for life of track
- Rapid data output from Correlator Tracker or direct from source data
- Dynamically configurable track number allocation



** Please contact Raytheon Solipsys for specific information regarding supported interfaces, radars, and data formats. Specific features and interfaces are subject to export control.

† Limited support currently available.

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