SARSAT MCC

Next Generation Mission Control
Center Software Solution
SARSAT MCC is a fully-featured enterprise system solution with advanced usability design, intuitive toolbox, reliable active-backup configuration, and versatile communications suite that supports critical mission control center functions in the global Cospas-Sarsat network.

Our proven LEOSAR-GEOSAR-MEOSAR (LGM) Mission Control Center (MCC) solutions are now commissioned as Nodal MCCs in Spain and Australia, enabling global distribution of critical search and rescue information through the Cospas-Sarsat system.

Features

• Powerful MCCNet software for complete Cospas-Sarsat LGM MCC capabilities
• Unified Inbox to manage prioritized incoming alerts and messages
• Complete beacon alerts information query and manipulation
• Highly intuitive map display with selectable 2-D and 3-D view
• Real-time system status monitoring and control
• Smart data distribution supporting various communication options
• High Availability and Disaster Recovery system configurations

SARSAT MCC – Usability and Reliability for Mission Control

Operator Toolbox

• SARSAT MCC features a Unified Inbox to display all actionable events that require operator interactions, such as beacon alerts, narrative messages, or system level alarms.
• Ability to query beacons and messages by active time, beacon ID, message number and country for 12 months.
• Displaying and predicting coverage and mutual visibility between beacons, ground stations, and satellites.
• Beacon encoding, decoding, validation, and registration information query.
• Use of templates and automatic population of registration information ease the creation of SIT messages while advanced distribution tools ease message transmission.
• Role-based authorization allows different users to have different levels of access.
Data Distribution and Communications

SARSAT MCC automatically ingests and processes MEOSAR, LEOSAR, and GEOSAR data and sends information by any available link to MCC, RCC, or SPOC destinations. A GUI is provided for the operator to specify the destination and all communications link parameters, as well as additional advanced options.

Communications protocols supported include FTP/VPN, AMHS, AFTN, FAX, and SMTP email. SARSAT MCC automatically retries transmission and continually monitors all link status.

Display

Beacon alerts are automatically displayed on the SARSAT MCC GIS map display as they are created. Information layers such as beacon alerts, search and rescue regions, satellites, LUTs, and satellite footprints can be added or removed by selecting and deselecting layers through the layer manager.

Monitoring and Reporting

The built-in automatic diagnostic and analytical tools continuously detect, trace, and report malfunctioning components and processes. SARSAT MCC also features QMS Analysis tools to track system performance in real-time.
A Heritage of SAR Excellence

TSi provides the most comprehensive portfolio of life-saving and tracking solutions in the industry today. As the global leader in MEOSAR satellite technology, TSi is the only provider of end-to-end solutions for search and rescue, from satellite ground infrastructure to mission control centers and rescue coordination centers. TSi has installed more than half of the world’s MEOSAR satellite ground infrastructure and manufactures 25 percent of the world’s registered beacons which are used by major aviation, marine and military customers including Airbus, Boeing, U.S. Coast Guard, British Royal Navy and several government agencies.

References

- USA – NASA & NOAA
- Australia – Australian Maritime Safety Authority (AMSA)
- Singapore – Maritime and Port Authority of Singapore (MPA) & Civil Aviation Authority (CAAS)
- UK – Maritime & Coastguard Agency (MCA)

saved over 48,000 lives since 1982