RASS-R & SMS SOLUTION

The RASS-R & Sensor Monitoring System solutions are used worldwide as reference analysis and evaluation tools. Civil and Military Air Navigation Service Providers (ANSP), flight calibration companies, radar manufacturers and engineers commonly use the real-time data collection, replaying, monitoring, displaying and analysis functionality. RASS-R is designed to operate in versatile surveillance Air Traffic Management (ATM) environments like Air Traffic Control Centers (ATCC) and at the radar site, providing flexibility, scalability and transparency. The solutions are manufacturer and surveillance systems independent.

It supports the users in their daily tasks and provides a high efficiency rate to solve unexpected system behavior and performance issues. System engineers, technicians, maintenance personnel and validation officers responsible for testing, validation, certification, performance check and fault finding get a complete toolset that is applicable on all their sensor surveillance systems.

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See the SMS brochure and RASS-R catalogue for more detailed information!

IE-CD-01074-001 RASS-R leaflet

ANALYSIS and DISPLAY SYSTEMS
RASS-R

HIGHLIGHTS

- EUROCONTROL and ICAO compliant
- Essential solution for the ATM environment, manufacturer and verification/validation authorities.
- Scalable
- Single independent and versatile toolset for all manufacturers and sensor types, both civil & military
- Integration with RASS-S and other measurement solutions
- Improved daily quality monitoring, maintenance cycles, fault finding and validation testing.
- Real-time sensor monitoring and analysis
- Experienced support engineers at disposal with years of experience.
**Data handling**

The Data Handling Module (DHM) is an independent data input/output system, it can run as RMCDE, large scaled in an ATCC or smaller setup on the radar site. The DHM is compatible with the Eurocontrol ASTERIX and other legacy data protocols, its core functionality is:

- Data recording and replay through various interfaces (for example Ethernet, serial port, FDDI)
- Manipulation of the data (changes in framing, for example a serial data input in U-HDLC and output in UDP)
- Real-time protocol conversion
- Real-time data correction (range, azimuth based on gyroscope eccentricity file, altitude, ...)
- Real-time filtering of data on all available data fields (for example filter on S-addresses, filter on presence of MB data)
- 24/7 operability
- Real-time ADS-B video to plot extraction, output as ASTERIX Category 21 (Intersoft Electronics hardware required: UVR892 or RIM782 with optionally ARF800).

**Display**

Multi Radar Display (MRD) is a powerful maintenance display solution. The purpose is a PPI display for various sensor formats. Besides sensor data, it is also able to display weather data. Typical data input fields are pre-defined and it is suitable to be installed in the radar shelter as well as in the ATCC.

**Features**

- Suitable for in the sensor site and ATCC solutions.
- Quick switching between radar data sources (6 out of N selection)
- Advanced map editor and ATC controller features

**Intersoft Electronics’ Surveillance Monitoring System (SMS)**

SMS is a scalable surveillance monitoring system that provides real-time analysis on multiple surveillance sensors. There is an increasing demand for early notification of sensor degradation in order to assure a Quality of Service (QoS) on the track output to the Controller Work Positions.

The SMS greatly improves safety through the early provision of a warning of sensor degradation. Intersoft Electronics’ SMS is the most cost-effective solution to ensure that all sensors are compliant against the ICAO and EUROCONTROL mandated standards.

**Features**

- Improved safety
- Early warning of sensor degradation
- Automated performance charts
- Audible and visual alarms
- Performance reports
- Advanced detailed analysis
- Quality of Service (QoS) monitoring according ICAO and EUROCONTROL mandated standards
- Integration with RASS-S and RASS-R

** eurocontrol Standard Document for Radar Sensor Performance Analysis SUR.ET1.ST03.1000-STD-01-01**

**EUROCONTROL Standard Document for European Mode S Station Functional Specification SUR/MODES/EMS/SPE-01**

**EUROCONTROL Standard Document for Radar Surveillance in En-route airspace and Major Terminal Areas SUR.NET.ET1.ST01.1000-STD-01-01**

**EUROCONTROL Standard Document for ATM Surveillance System Performance**

**ICAO/DO-018 (Recommendations)**

**ICAO Document 9684 “Manual of the SSR Systems”**