RAPS-3
Surveillance Data Support, Test & Evaluation System

The RAPS product is a powerful and versatile toolset for testing, analysis, validation and generation of surveillance data.

The Solution

RAPS-3 is commonly used as reference and test tool by air navigation service providers at control centres or radar sites for analysing, monitoring any generating any data from classic and Mode-S radars, ADS-B sensors, MLAT systems, trackers, flight recorders and other surveillance equipment.

RAPS-3 enables the recording, replay, multichannel communication and analysis of a wide range of formats and protocols. Frequentis Comsoft closely monitors the ASTERIX standardisation process and regularly provides upgrades to forthcoming versions of the EUROCONTROL standard.

User Benefits

System and radar engineers, or airport maintenance staff responsible for the ATC infrastructure, use RAPS-3 for system testing, fault analysis, quality monitoring and trouble shooting.

RAPS-3 is indispensable in critical situations, such as during inaccurate or unexpected system behaviour or bad performances within the ATC centre’s infrastructure. Its practical use includes performing acceptance test procedures and certifications within the scope of integrating new communication and data processing systems, radars, sensor and other surveillance data sources into an existing operational environment.

Highlights

- Indispensable toolset for ATC environments and manufacturers
- EUROCONTROL qualified reference product for the ASTERIX standard
- Support of military ASTERIX
- User-definable test and evaluation suites
- Online surveillance data real-time monitoring and analysis
- Available on various portable platforms
- Experienced support team with wide service portfolio
Key Features

Highly sophisticated and flexible functions: For format sensitive evaluation, visualisation, filtering, transformation and technical simulation.

Diverse fields of application: ATC centres generally use RAPS-3 as a measurement and analysis system, while manufacturers implement the tool as an independent reference system for acceptance testing of various systems and applications, such as error diagnostics on operationally running systems or test environments.

Analysis function: Sensor quality and fault analysis, performance monitoring, test flight and opportunity traffic analysis of any kind of surveillance data, are all possible with RAPS-3.

ASTERIX reference tool: RAPS-3 supports all ASTERIX standard categories and allows the operator to choose from different ASTERIX versions as well as user application profiles (UAP) according to specific requirements of an application, while its processor is fully backwards compatible to earlier versions.

Bespoke military requirements: The unique derivate MILRAPS for military customers is designed and developed for the specific requirements of the armed forces, as defined by NATO.

References