



RAXA Radar Asterix Analyzer

2nd edition

Product Overview

The Filbico Radar ASTERIX Analyzer 2nd edition (RAXA2) with SALSA software (Scalable Asterix Listener, Simulator and Analyzer) is a modern toolset to radar data testing and evaluation.

The solution is dedicated to civil and military air traffic management systems as well as military air surveillance systems.



Radar data processing and presentation

- Automated radar detection and configuration
- Automated and manual scenario configuration (receive, recording, presentation etc.)
- ASTERIX data graphical and tabular presentation
- Radar data, ADSB, MLAT (including Mode S), weather data analysis and presentation
- Radar sensor performance analysis (probability of target position detection)
- Surveillance data received in ASTERIX protocol presentation (icons, labels)
- Monoradar service messages processing
- Mode S data processing (GICB and Extended Squitter)
- Plots, tracks, stobes presentation and labels configuration
- Online and offline data processing and filtration
- Presented tracks, plots, stobes and radar sources colors adjustment
- Statistical data concerning received tracks, plots, stobes data presentation

Radar data monitoring, analysis

- Modern and flexible open component architecture
- ASTERIX data conversion between categories and formats
- ASTERIX version editor and new categories creator
- ASTERIX analysers:
 - many provided out of the box
 - editor for creating new analysers
- Rich in statistical reports, analyses and graph generation



Simulator

- Simulated trajectories graphical editor
- Customizable ASTERIX output
- Realtime modification of simulated aircraft parameters
- Surveillance data in the form of targets, monitoring messages etc.

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Radar AsteriX Analyzer

Map background

- Presentation of vector and raster map data sets
- Import of vector maps (shp, geojson, kml, etc.)
- Supporting tools:
 - cursor coordinates display and distance measurement
 - map layers display and description configuration
 - map operations (scroll-in, scroll-out, zoom-in, zoom-out etc.)



Recording and replay

- independent recording/replay of multiple data sources/ streams
- simultaneous recording and presentation of currently received data
- graphical and tabular presentation
- import/export from/to external formats



Software environment

- Operating system Linux CentOS7

Software development standards

- Quality ISO 9001
- AQAP-2110
- AQAP-2210

Hardware specification

- GETAC X500-G2
 - Processor Intel® Pentium i7
 - 512GB SSD
 - 16GB RAM



Interfaces&Protocols

- Interfaces:
 - RS-232/422
 - Ethernet 10/100/1000Base-T
 - Ethernet IEEE 802.3ab
- Protocols:
 - RFC768 UDP
 - HDLC FRAME
 - HDLC LAPB

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