



## RMD-V2

### Radar Monitoring Display

Real-time monitoring, analysis and reporting tool for air space surveillance data to support technical services, investigations and training.

#### The Solution

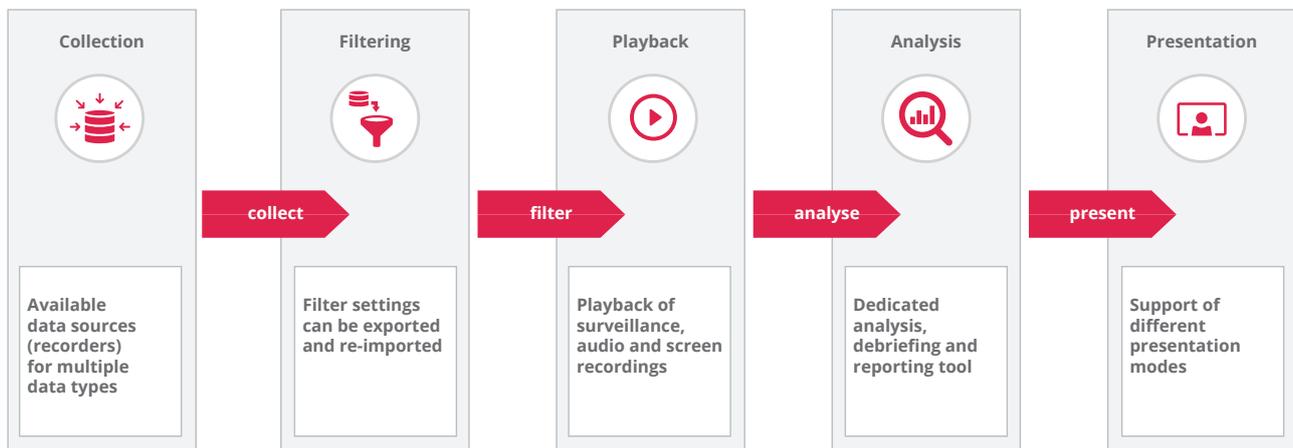
By processing both real-time and recorded data from sources including surveillance data (plots, tracks), weather information, ADS-B, multilateration reports, audio and screen recordings, the solution can be used for monitoring operational data and performing in-depth incident analysis offline. Radar data is received in real-time using UDP, while recorded data can be integrated from our R2D2-V2 recording system or imported from other solutions via a standardised interface. Radar Monitoring Display offers a wide range of analytics and processing capabilities to support advanced investigations. Findings can be exported for use in reports and presentations.

#### Highlights

- Enables synchronised dynamic playback of audio and surveillance data as well as screen recordings
- Allows dynamic live monitoring and static analysis
- Supports object tracking, distance measuring, and user-configurable filtering of data

#### User Benefits

With its sophisticated feature set, Radar Monitoring Display is a multi-purpose solution that assists technical engineers and maintenance staff as well as incident investigation teams in their daily tasks, improving service quality. The solution can be used for both online and offline work, and therefore offers operational flexibility while also supporting the separation of responsibilities. The large range of features enables the solution to meet multi-purpose needs while simultaneously supporting expert users with sophisticated analytical requirements.



Typical RMD workflow

## Key Features

**Versatile data ingestion:** supports plot and track handling of multiple data formats, including ADS-B (multiple ASTERIX categories), ASC, meteo (QNH), PS890 and more.

**Advanced visualisation:** air situation display in two or three dimensions with multiple scales and flexible zooming.

**In-depth investigations:** facilitates data filtering, trajectory reconstruction, distance analysis as well as forward and backward replay at multiple speeds.

**Short-term playback:** reproduction of data for clarification and debriefing purposes.

**Real-life scenario playback:** playback of real data for training and simulation purposes.

**Flexible operation:** processing of online and offline data sources enhances analytics capabilities.

**Detailed reporting:** comprehensive data export features cover a broad range of formats including movie generation for effective visualisation of complex scenarios.

**Fast implementation:** no complex setup or configuration required.

## Selected References

-  **armasuisse:** the Federal Office for Defence Procurement of the Swiss Confederation, has deployed Frequentis Radar Monitoring Display in six locations for two distinct use cases:
  - airport surveillance analysis (ASR) and
  - precision approach analysis (PAR).

-  **FMV (Försvarets materielverk):** the Swedish Defence Materiel Administration has deployed Frequentis Radar Monitoring Display on four systems. The solution handles ASTERIX and non-ASTERIX surveillance data from up to 300 radar data sources and uses an external map server (ArcGIS).