

Product brief: MDAS

Military display automation system

MDAS is a modern display automation solution that interfaces with airport surveillance radars, precision approach radars and other surveillance data sources to provide seamless awareness of local airspace for military air traffic controllers. Supporting multiple controller working positions per site, the solution includes system health monitoring and control features for connected radars. Optionally, MDAS can use the Frequentis recording and replay solution to store data for legal and analytical purposes.

Key features

Controller-centric design

While critical information is permanently displayed, MDAS also provides intuitive access to ancillary information whenever required, and enables controllers to customise their view with options such as flexible labels, flight plan display, flight lists, and an additional air situation display.

Flight-plan database

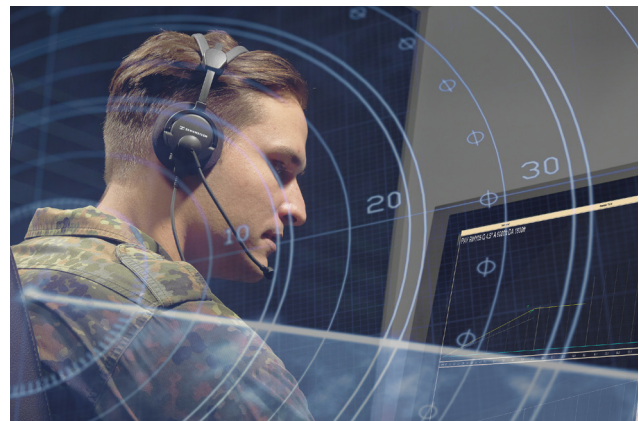
If MDAS is connected to the flight-plan database, this data is automatically matched against current aircraft tracks, using their call sign, Mode S address or Mode 3/A code. Additional information can be displayed in the label of the corresponding track.

Open integration framework

The modular architecture supports optimal adaptation to changing requirements by enabling optional monitoring tools such as Short Term Conflict Alerts (STCA), Area Proximity Warnings (APW), Minimum Safe Altitude Warnings (MSAW) and Approach Path Monitor (APM).

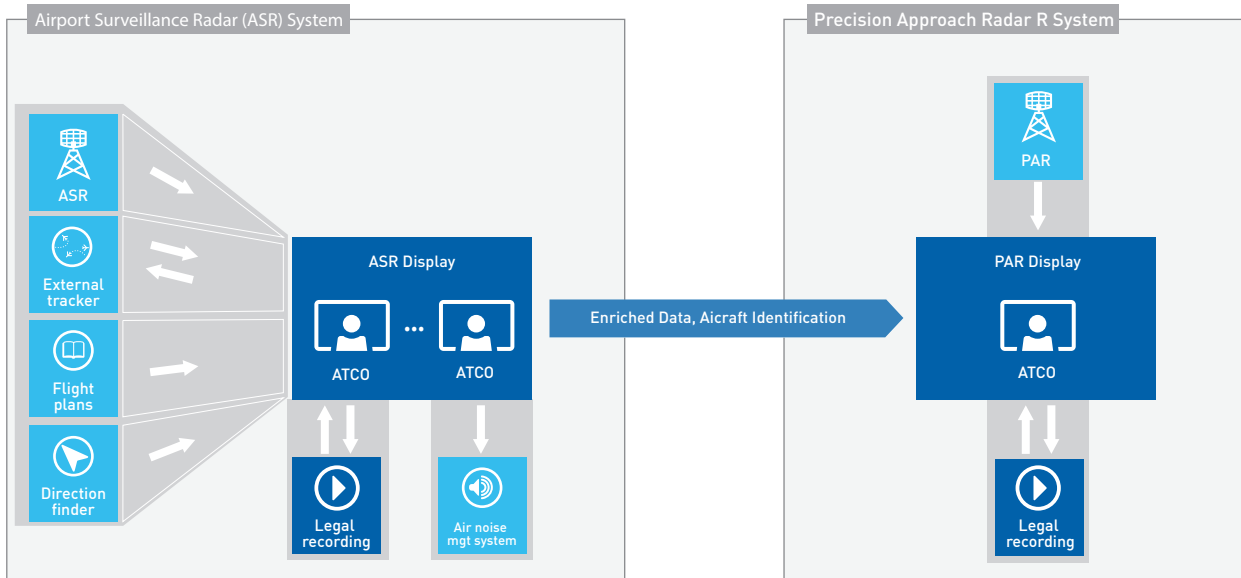
Easy support

MDAS provides numerous control-support tools such as contextual filtering and system health monitoring, while the redundant set-up ensures high availability.



MDAS at a glance

- Processing and visualisation of surveillance data and weather information
- Open and modular architecture for easy integration into existing infrastructure
- Interface to airport surveillance (ASR) and precision approach (PAR) radars
- Easily extendable through safety nets options
- Additional support and analysis options through Frequentis' recording and replay solution



User benefits

MDAS gives military air traffic controllers a clear view of the most critical surveillance and weather information they need. Its intuitive, user-centric design – developed by controllers for controllers – enables increased situational awareness and highly efficient operations.

Rather than dividing their attention between multiple legacy interfaces, controllers can utilise a single, easy-to-understand display, which they can easily customise to meet their exact requirements. By accelerating access to all necessary information, MDAS supports fast and efficient decision-making while empowering controllers to focus on their core mission.

Organisational benefits

Already deployed on a nationwide basis by an air force in Europe, MDAS offers a proven approach for the modernisation of military controller positions. The modular solution is open to integration with practically any existing infrastructure, accelerating deployment while retaining the flexibility to work with different source systems in the future. It is also highly customisable to meet specific local requirements, and optionally offers a number of pre-built functional extensions.

By bringing the most critical information on the local airspace and weather conditions into a single, advanced and intuitive interface, MDAS helps ensure that military air traffic controllers have reliable access to the insights they need to maintain mission safety and efficiency. For the organisation as a whole, the solution provides a low-risk, cost-efficient, modular approach to high-quality modernisation.