

CADAS-ADP

Aeronautical Data Portal

CADAS-ADP is a key component of the Frequentis CADAS suite, designed to optimise aeronautical data management. It enables aviation authorities to efficiently generate, manage, and distribute Digital NOTAMs in machine-readable formats. With GIS-based visualisation, users gain real-time situational awareness, enhancing decision-making. Automated workflows streamline processes, while the AIXM 5.1 schema and business rules ensure validation and global interoperability for seamless data exchange. As part of the CADAS suite, it streamlines data flow, ensuring up-to-date, centralised aeronautical information across all operations.

Key features

Digital NOTAM integration

CADAS-ADP generates, manages, and publishes Digital NOTAMs, replacing traditional text NOTAMs with structured, machine-readable formats while also generating text versions for backward compatibility.

GIS-based visualisation

Interactive map-based tools provide real-time awareness of airspace data, such as flight paths and obstacles, improving decision-making.

Automated workflows

Streamlines aeronautical data processing by automating tasks like event validation and publication, reducing human error.

Data origination

Easy-to-use web-portal for data change requests relevant for permanent and temporary aeronautical publications.

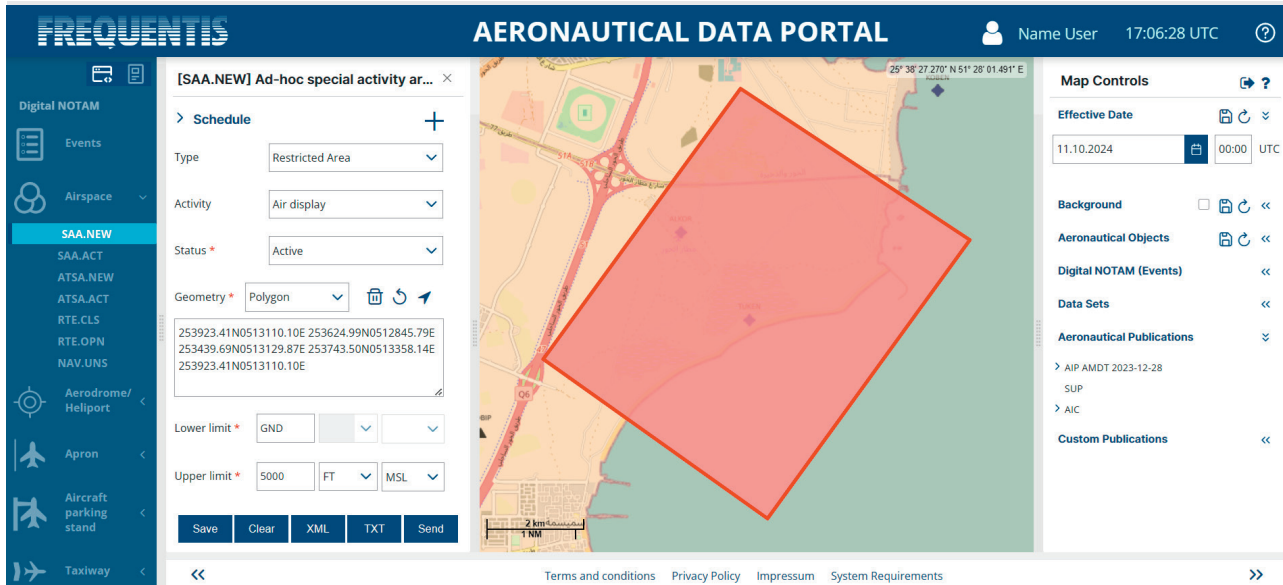
Data distribution portal

CADAS-ADP can serve as a data distribution service portal, providing the next intended user with access to all kinds of aeronautical publications, such as AIP, digital datasets, and Digital NOTAM.



CADAS-ADP at a glance

- Simplified NOTAM creation via GIS-based interface and seamless integration with CADAS components.
- Dynamic support for ad hoc airspace management and evolving airspace scenarios.
- Real-time validation ensures compliance with global standards, reducing human errors.
- Interactive map displaying aeronautical data based on user's context.



Benefits

Increased efficiency

CADAS-ADP automates key tasks, such as Digital NOTAM creation and data validation, reducing manual effort and freeing up personnel for higher-priority tasks. This speeds up aeronautical data processing and ensures more efficient operations.

Enhanced safety

By converting aeronautical information into machine-readable formats, CADAS-ADP minimises the risk of human error, ensuring that accurate and timely data is provided to flight crews and other stakeholders.

Scalability

The modular design of CADAS-ADP allows it to scale with the evolving needs of aviation authorities, supporting future technology upgrades and expanding functionalities with ease.

Global interoperability via SWIM

Built on the AIXM 5 SWIM standard, CADAS ensures seamless data exchange between different platforms, enabling international coordination and compliance with global aviation standards.

User-friendly interface

With its intuitive, GIS-based interface, CADAS-ADP simplifies the management of complex airspace data, making it easier for users to visualise, interpret, and act on aeronautical information.

Facts & Figures

Compliance standards	AIXM, ICAO Annex 15, EUROCONTROL eAIP specifications, OPADD 4.1, ICAO Doc 8126, ICAO Doc 10066, Eurocontrol Digital NOTAM specifications
Integration	Fully SWIM capable, promulgation of traditional NOTAM via AFTN/AMHS
Data types	AIXM static/dynamic data, digital data sets, aeronautical information packages, Digital NOTAM
Visualisation	GIS-based tools for real-time situational awareness
Automation	Workflow automation for generation, validation, and publication of aeronautical products
Use case	Implemented by Qatar Civil Aviation Authority for 2022 FIFA World Cup

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