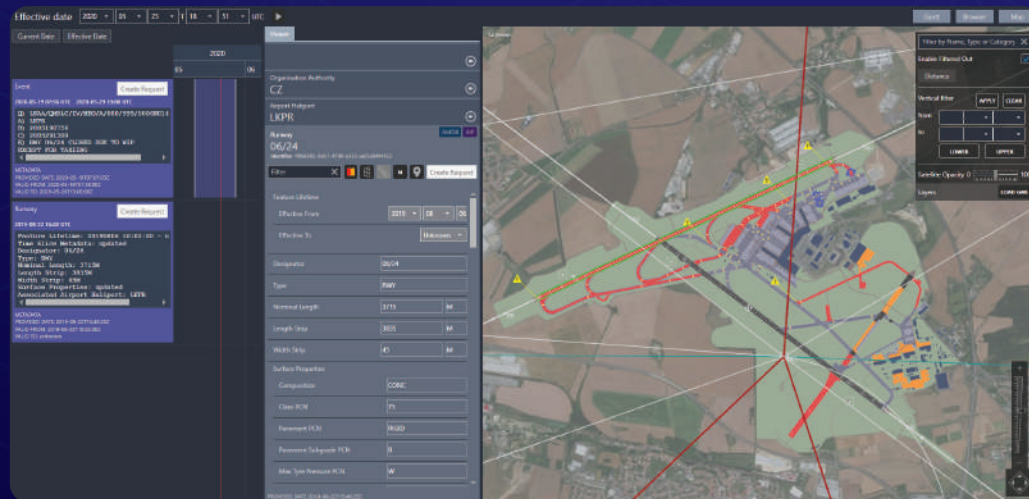(NG-AIME)

Next Generation
Aeronautical Information Management Environment

NG AVIATION

NG-AIME
Integrated environment

ENSURING EASY DATA MANAGEMENT &
SECURE DATA EXCHANGE BETWEEN ALL
AVIATION STAKEHOLDERS

By introducing a unique environment for comprehensive aeronautical data digitization and management, the NG AVIATION aims to optimize the existing business requirements of both civil as well as military aviation industry.

NG-AIME is an integrated environment consisting of multiple modules that handles much more than just the raw AIXM 5.1 data. The environment furthermore incorporates the NG-AIME Web Viewer to enhance the data viewing capability for various stakeholders. It includes a workflow management tool

to ensure the desired level of data quality and traceability and compliance with international standards.

The fundamental principle is to provide stakeholders with a full transition from paper/ analogue to a digital environment, delivering all the benefits of the digital transition.
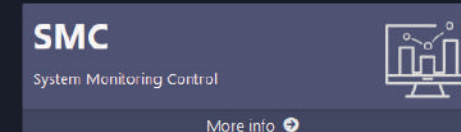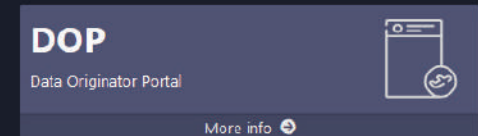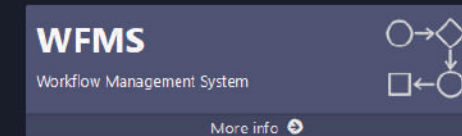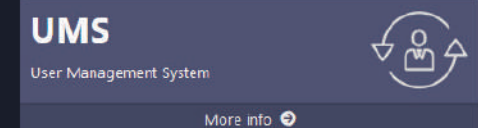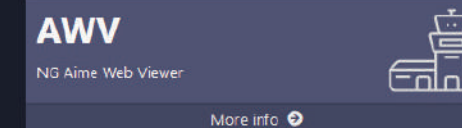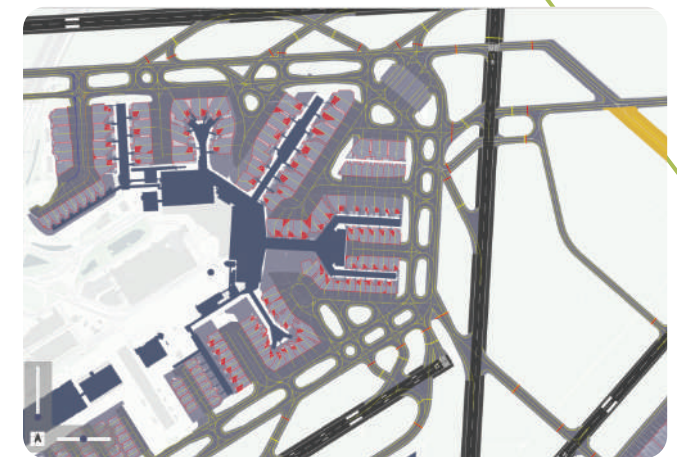
The NG-AIME software platform consists of modules designed to comply with the newest ICAO Annex 15 requirements, including Digital Data Sets, digital NOTAM and obstacle management.

Web portal

YIELDING ACCESS TO ALL
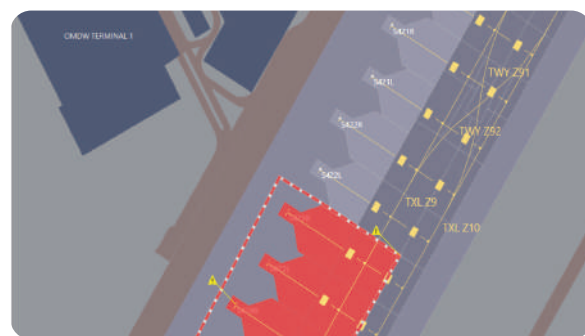WEB-BASED MODULES OF
THE NG-AIME ECOSYSTEM

It acts as a one-stop-shop where users can browse between available applications based on their allocated rights. The benefit of this approach lies in **quick accessibility, single sign-on and integration.**

The web portal includes the AIXM 5.1 Web Viewer, Workflow Management System, Data Originator Web Portal, User Management System, System Monitoring. Development of integrated eAIP is in progress, with the final product launch scheduled for Q4 2021.

AWV
NG Aime Web Viewer
More info ➡

UMS
User Management System
More info ➡

WFMS
Workflow Management System
More info ➡

DOP
Data Originator Portal
More info ➡

SMC
System Monitoring Control
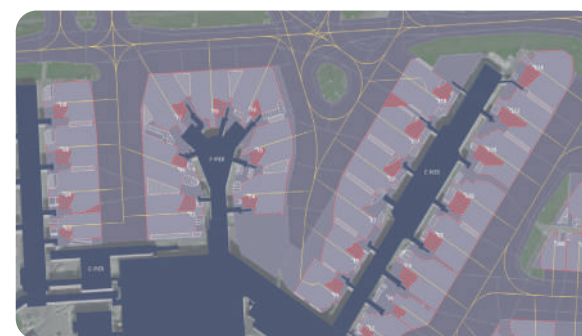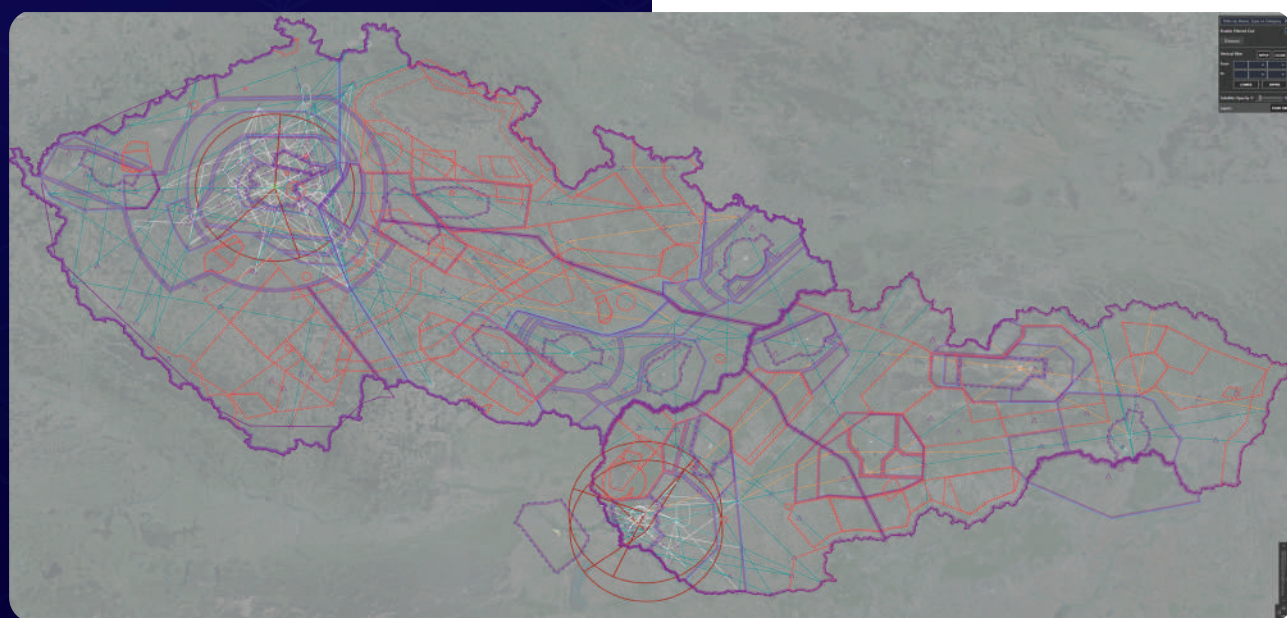More info ➡

NG-AIME Desktop

COMPREHENSIVE
DIGITAL AERONAUTICAL
INFORMATION IN A
CENTRALIZED AIXM
DATABASE

The desktop application is built natively on AIXM 5.1, supporting the full temporality model. **Its intuitive and smart user interface** allows easy management and distribution of digital aeronautical data natively in AIXM 5.1.

The full temporality support enables the user to view historical data values, current state and furthermore allows for crucial future planning activities.

All digital data sets (AMDB, AIP, IFP, Obstacles) as described in the latest version of ICAO Annex 15 and PANS-AIM doc 10066 can be **produced, managed, and shared via SWIM**, third party APIs and other file sharing methods.

EUROCONTROL's and customized business rules as well as application schema checks guide the user to **produce valid data without any errors.**

The import of obstacle, their automatic classification into ICAO obstacles areas and mainly the visualization of their precise position on the map can **increase safety and situational awareness.**

> DIGITAL NOTAM BASED ON THE LATEST CONCEPT IS ALREADY FULLY SUPPORTED AND IMPLEMENTED.

Highlights:

- AIXM 5.1 application
- User friendly interface (HMI/GUI)
- Visualization
- Digital aeronautical data management
- Digiral datasets as defined in ICAO Annex 15
- Automated data validation and verification
- SWIM compatibility
- Data traceability & Workflow integration
- Export/import options
- Automatic classification of obstacles
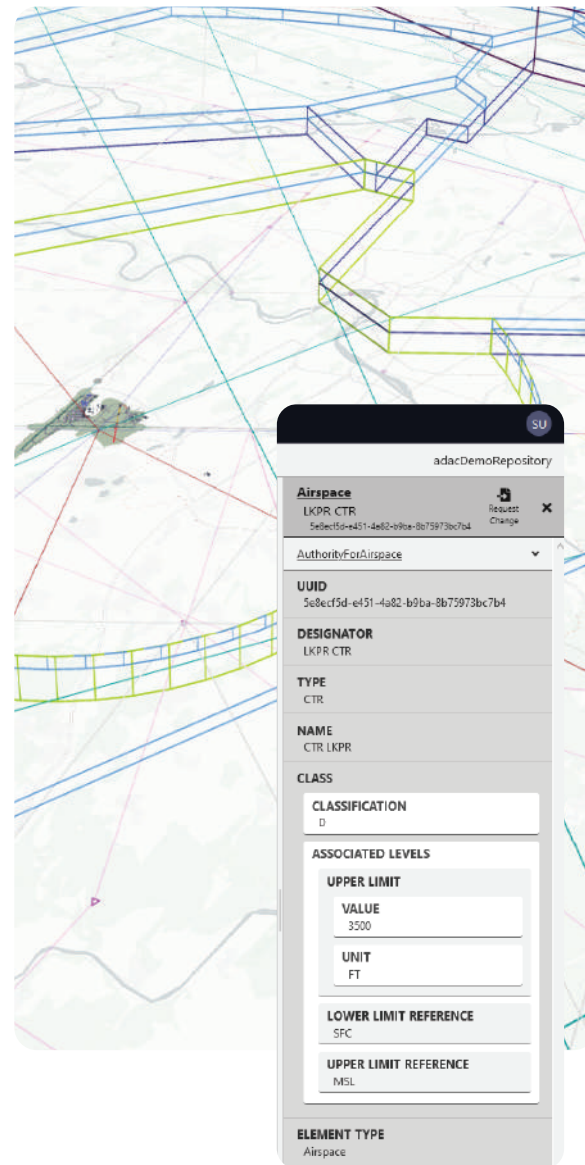
NG-AIME
Web Viewer

All the AIXM 5.1 data are just a click away for every involved stakeholder using the Web Viewer's functionalities.

AIME Web Viewer allow users to **browse AIXM data** through a light web application **for maximum performance** with undemanding hardware requirements.

AIME Web Viewer allows users to browse AIXM data through a light web application **for maximum performance** with undemanding hardware requirements. The user experience is fueled by a minimalist graphical interface and 2D/3D viewing modes.

WEB VIEWER THAT HANDLES
MULTIPLE EXTERNAL AND
INTERNAL REPOSITORIES

Additional functionalities include **AIXM 5.1 data browsing, textual data filtering, map selector context menus** and many more. The tool is integrated with the Workflow Management System and the Data Originator Portal, allowing users with sufficient allocated user rights to trigger data creation requests via the Web Viewer directly. It is important to note that the Web Viewer can access multiple internal and external repositories.

Highlights:

- AIXM 5.1 application
- 2D/3D viewing modes
- Feature selection & Data originator change request triggering
- Data updates from AIXM Server
- AIXM viewing capabilities to all operational users
- Support for mobile platforms
- Digital NOTAM visualization

Workflow and
User management

The purpose of workflow management or change control management is **to facilitate data quality and traceability** during aeronautical data management processes. The tool allows administrators to create, edit and deploy workflows. However, WFMS is not administrator oriented only. It comes with functionalities such as **dashboard, task overview, task management, task history, detailed workflow tracking and other functions** to form a robust tool with unlimited capabilities.

It is **fully integrated** with other NG-AIME solution components, which **increases the effectivity** of data management processes by reducing the time required to navigate between multiple applications and decreasing data duplication.
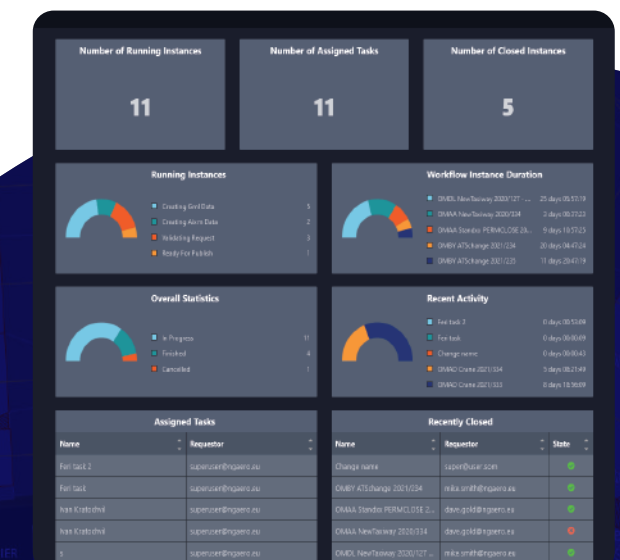
User management ensures that each user has **access to different system's functions and components** based on the assigned user rights.

INTEGRATED IN-HOUSE
DEVELOPED WORKFLOW
MANAGEMENT DESIGNED
FOR AIM NEEDS

The ecosystem includes a COTS user management system with Active Directory and LDAP support. User management is integrated within the solution allowing single sign-on (SSO) to all components of NG-AIME. The solution is not limited to the tool provided but **also supports third party user management systems.**

Highlights:

- Change request management
- Workflow definition
- Customized workflows and procedures
- Administrator and User level monitoring
- Dashboards and tasks overview
- Tailored to AIM/AIS needs
- Integration trough whole NG-AIME ecosystem

NG AVIATION

NG AVIATION SPECIALIZES IN THE DIGITAL TRANSITION OF THE CIVIL & MILITARY AVIATION INDUSTRY.

" *Cooperating with key international partners, NG Aviation offers a spectrum of services and solutions that provide comprehensive digital solutions, transforming the industry's information management and data exchange while fulfilling international regulatory compliance.* "

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www.ngaviation.eu