TopSky - AIXM

Centralized Aeronautical Information Database

THALES
Building a future we can all trust

TopSky – AIXM
Centralized Aeronautical Information Database

CENTRALIZE AND DISTRIBUTE ACCURATE AERONAUTICAL DATA

- Central and unique source of aeronautical data for all TopSky-AIM components
- Compliant with AIXM 5.1.1 standard
- Local or Cloud deployment
- Interoperable through SWIM interfaces
- Compliant with ADQ (Aeronautical DataQuality) regulation
- Multi country functionalities

Characteristics

KEY FEATURES

- Local or Cloud deployment
- Database initialisation possible with ARINC 424 dataset
- Central aeronautical database for all TopSky-AIM components:
    - Electronic AIP production (TopSky-eAIP)
    - NOTAM, Air Operation office and pre-flight Briefing (TopSky-AIS & TopSky-Internet Briefing)
    - Aeronautical Charts (AIP-GIS Charting®),
    - Procedure Design (GeoTITAN®),
    - ATC dataset connector TopSky-ATC
- Operational dual screens:
    - Web interface for textual data management
    - Graphical interface (GIS) for geo-referenced data visualization and edition
- Full implementation of AIXM 5.1 Business Rules: validation of full database or selected feature (highly configurable)
- Management of AIXM 5.1 temporality concept
- Advanced database consistency mechanisms, CRC and METADATA management

INTERFACES

- AIXM 5.1 and 5.1.1 import/export (including metadata)
- AIXM 4.5 export
- AMXM 2.0 export (AMDB)
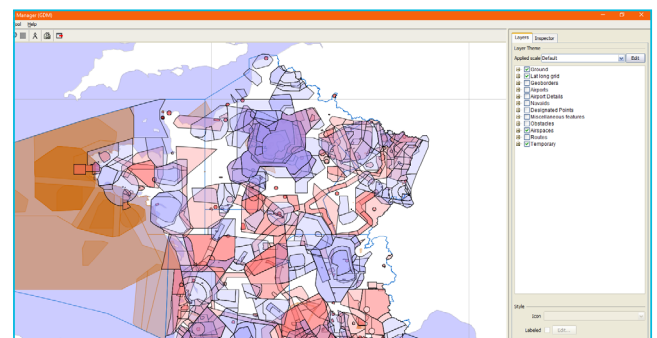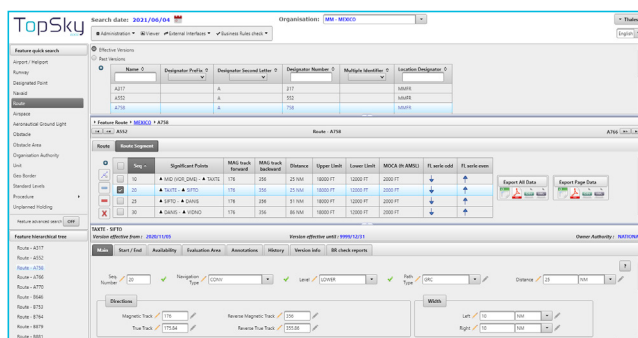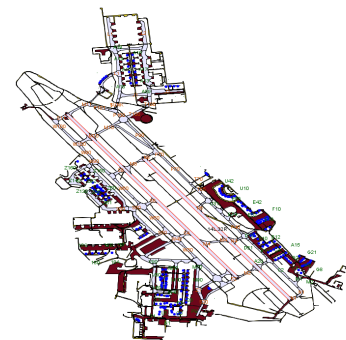- WFS 2.0

SYSTEM ARCHITECTURE

- Java EE architecture, Oracle or PostgreSQL
- Model driven architecture for easy follow-up of AIXM versions, and easy extension adding
- Graphical viewer based on market leader GIS
- Web HMI highly configurable (hiding / positioning of fields, fields required or not before commit…)

STANDARDS COMPLIANCE

- AIXM 5.1(.1), AIXM 4.5, WFS 2.0, ISO19139
- AIXM 5.2 in roadmap

VALUE-ADDED SERVICES

- Data migration from customer proprietary or pdf format to AIXM format
- Implementation of customer specific features and business rules