SANS
خدمات الملاحة الجوية السعودية
Saudi Air Navigation Services

MANAGING SKIES
SECURING LIVES

Data sets Management and Exchange

ICAO MID Region - AIM Sub-Group (AIM SG/10) - Feb. 28th, 2024

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CONTENT:

1. KSA DATA SETS
2. DATA SETS GENERATION STATUS
3. DATA DISTRIBUTION PORTAL
4. DATA SETS EXCHANGE
5. KSA-AIM DATA SETS ROADMAP

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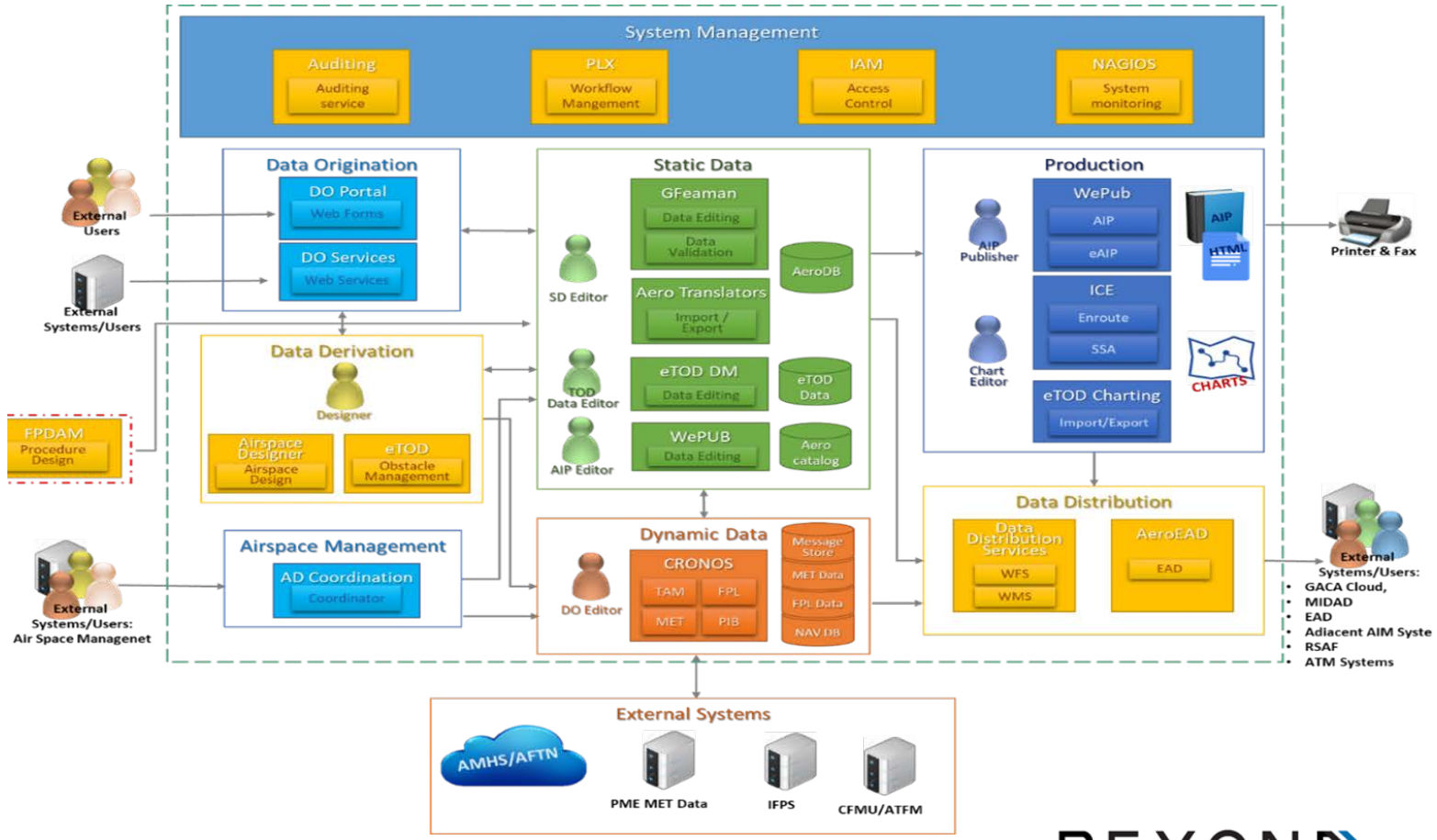
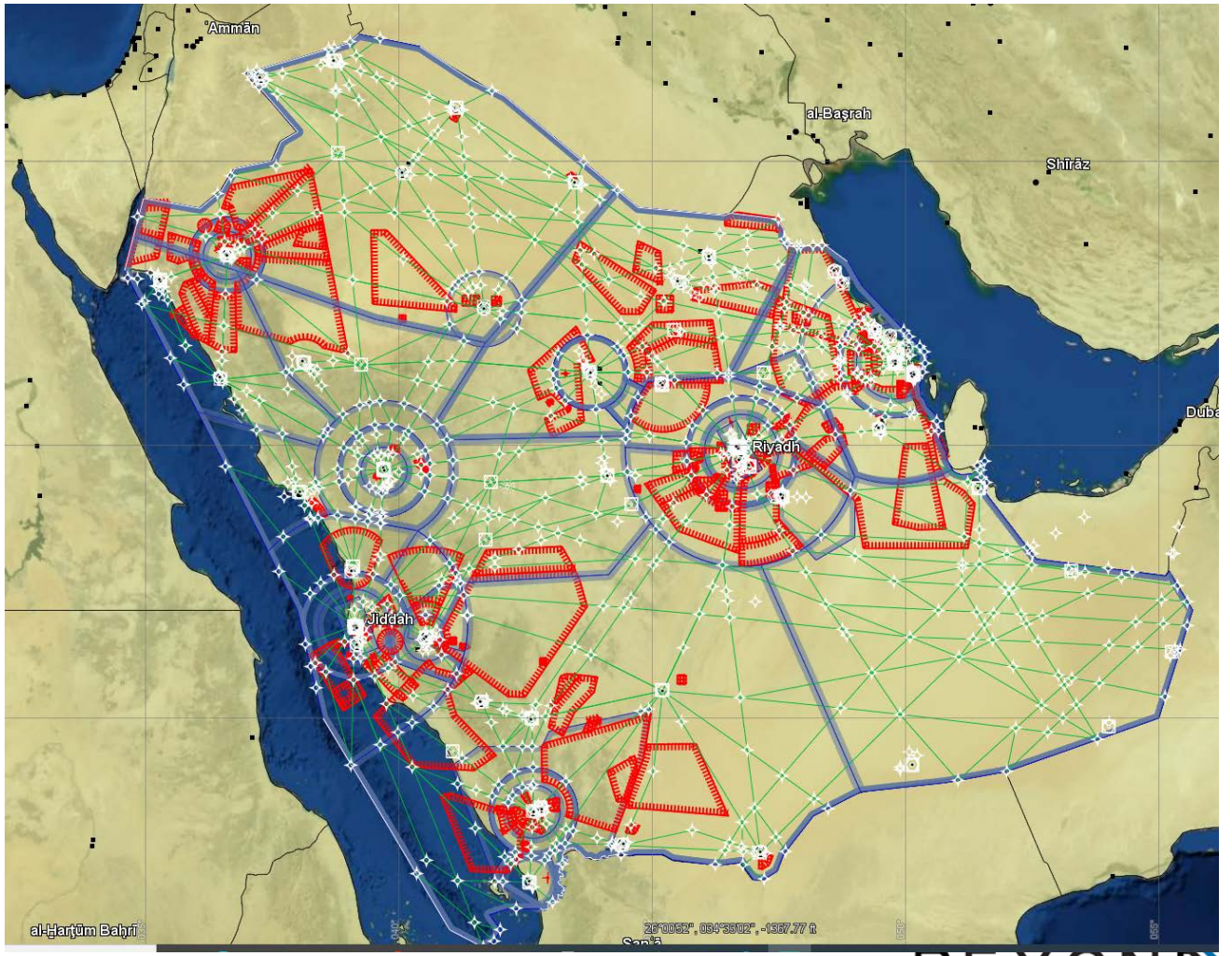
NEW AIM AUTOMATION SYSTEM

- Full Operation
- Data sets generation



DATA SETS GENERATION STATUS

- ❑ **FULL AIP DATA SETS**



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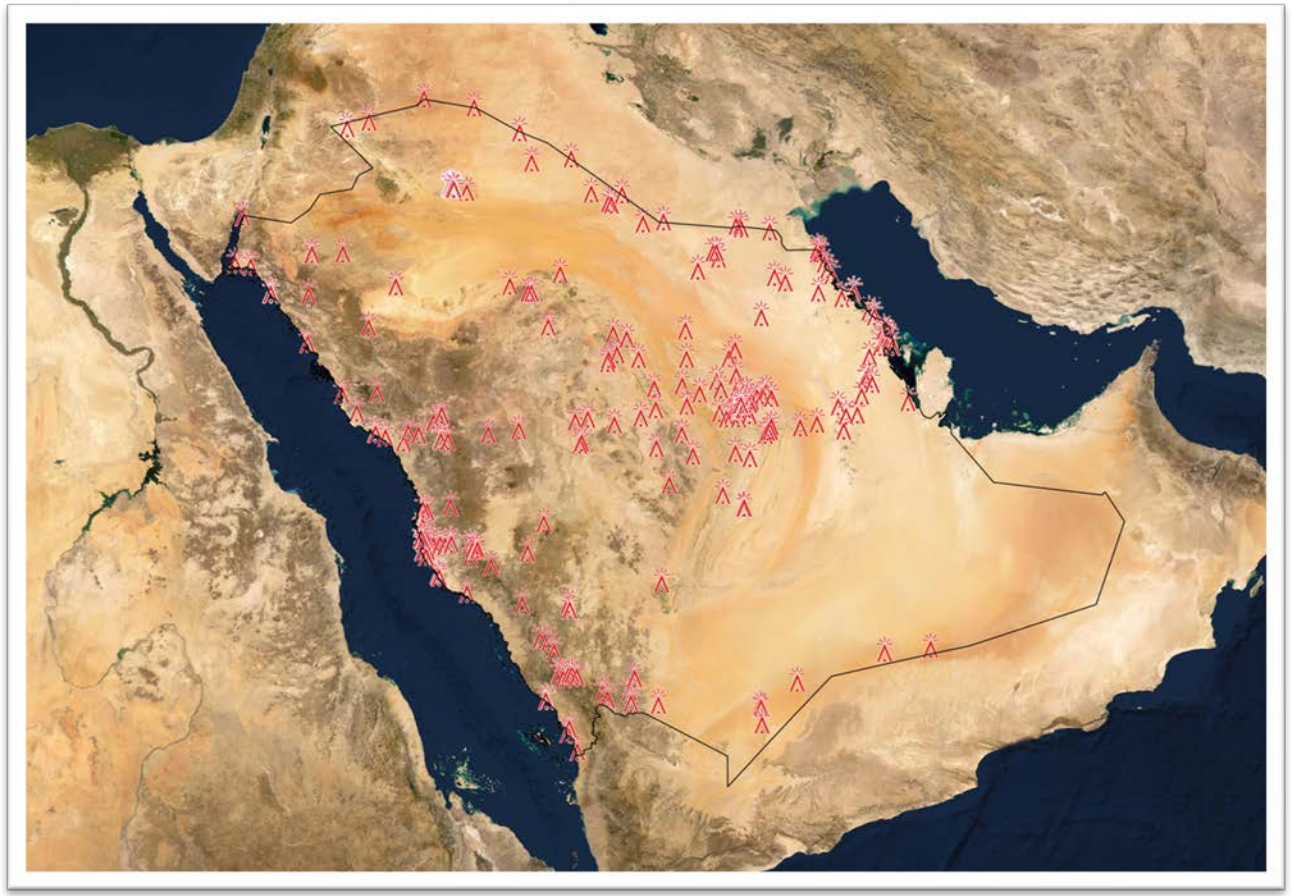
KSA DATA SETS GENERATION STATUS

❑ OBSTACLES DATA SETS



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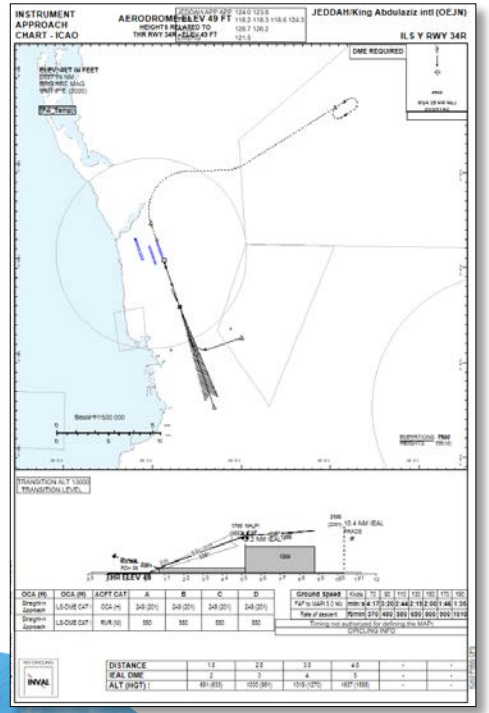
DATA SETS GENERATION STATUS

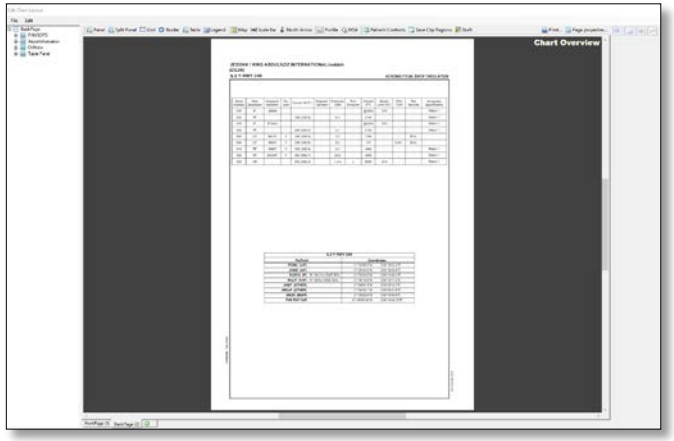
Instrument Flight Procedure DATA SET MANAGEMENT

AUTOMATIC GENERATION OF CHART

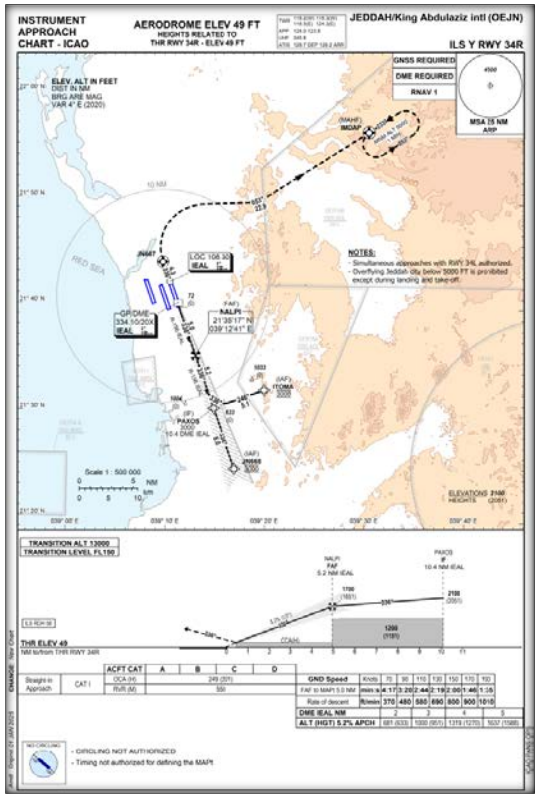
Chart generation

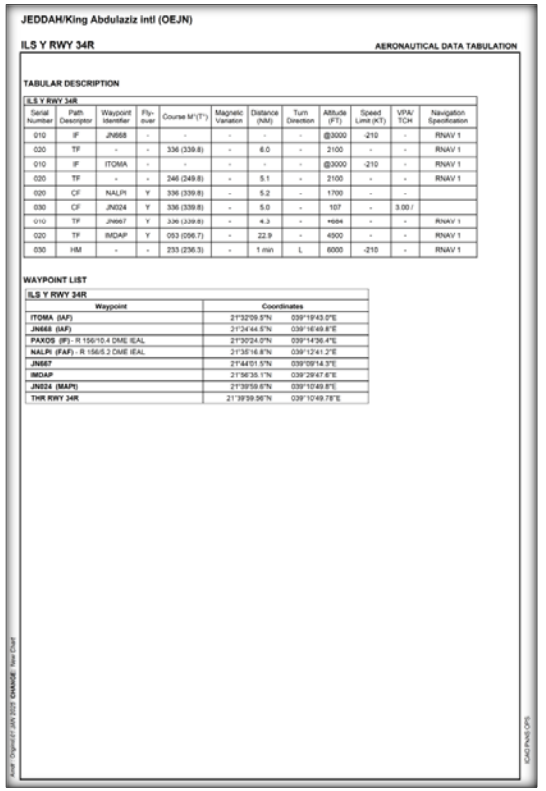


Tabular Description



Charting Tool Generation





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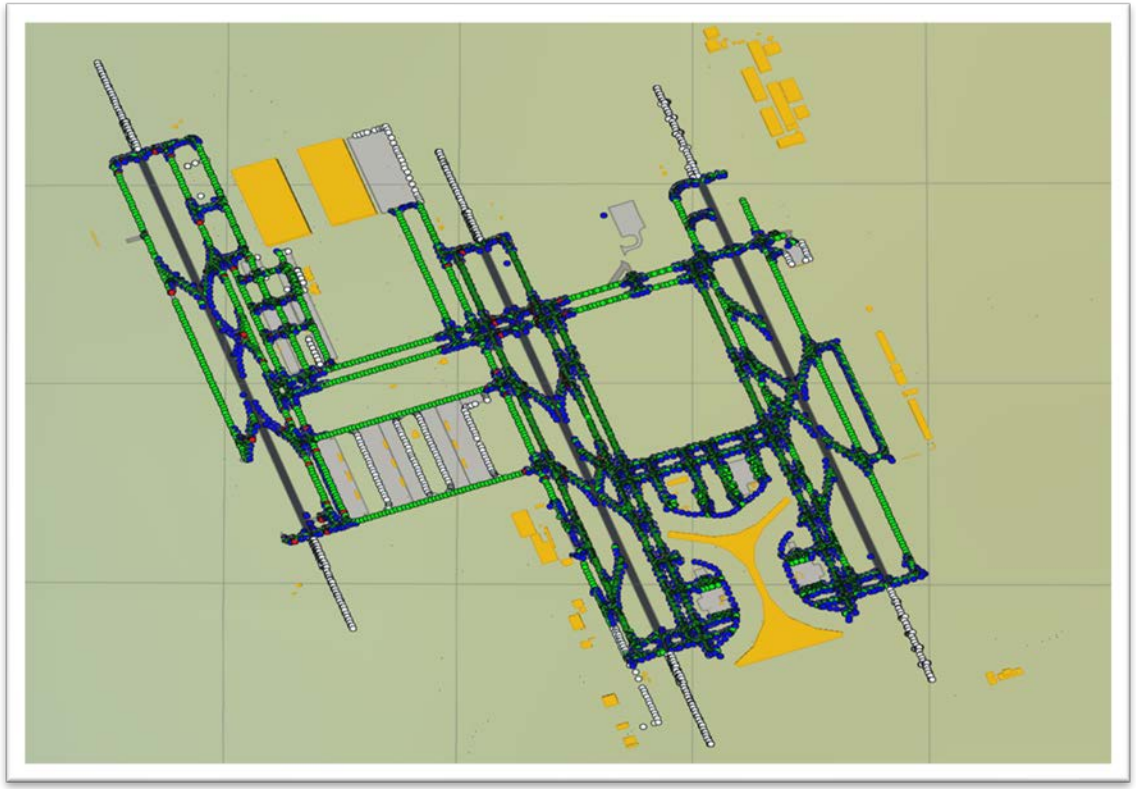
DATA SETS GENERATION STATUS

Aerodrome Mapping Data Sets Management

- The content of the aerodrome mapping data sets is defined in Radio Technical Commission for Aeronautics (RTCA) Document DO 272D/European Organization for Civil Aviation Equipment (EUROCAE) Document ED 99— User requirement for Aerodrome Mapping Information.



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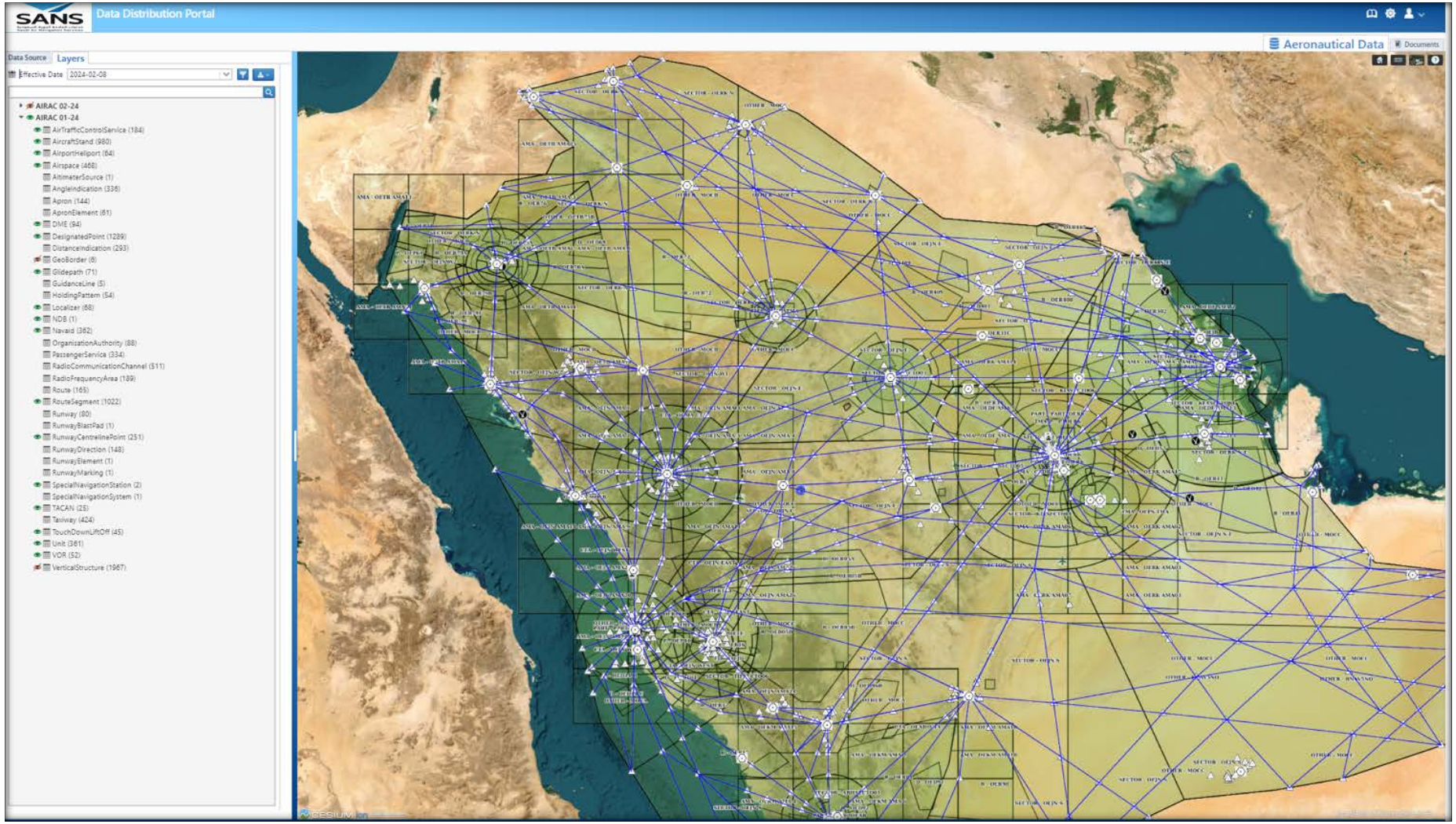
DATA DISTRIBUTION PORTAL

- Make the data sets available for the end users



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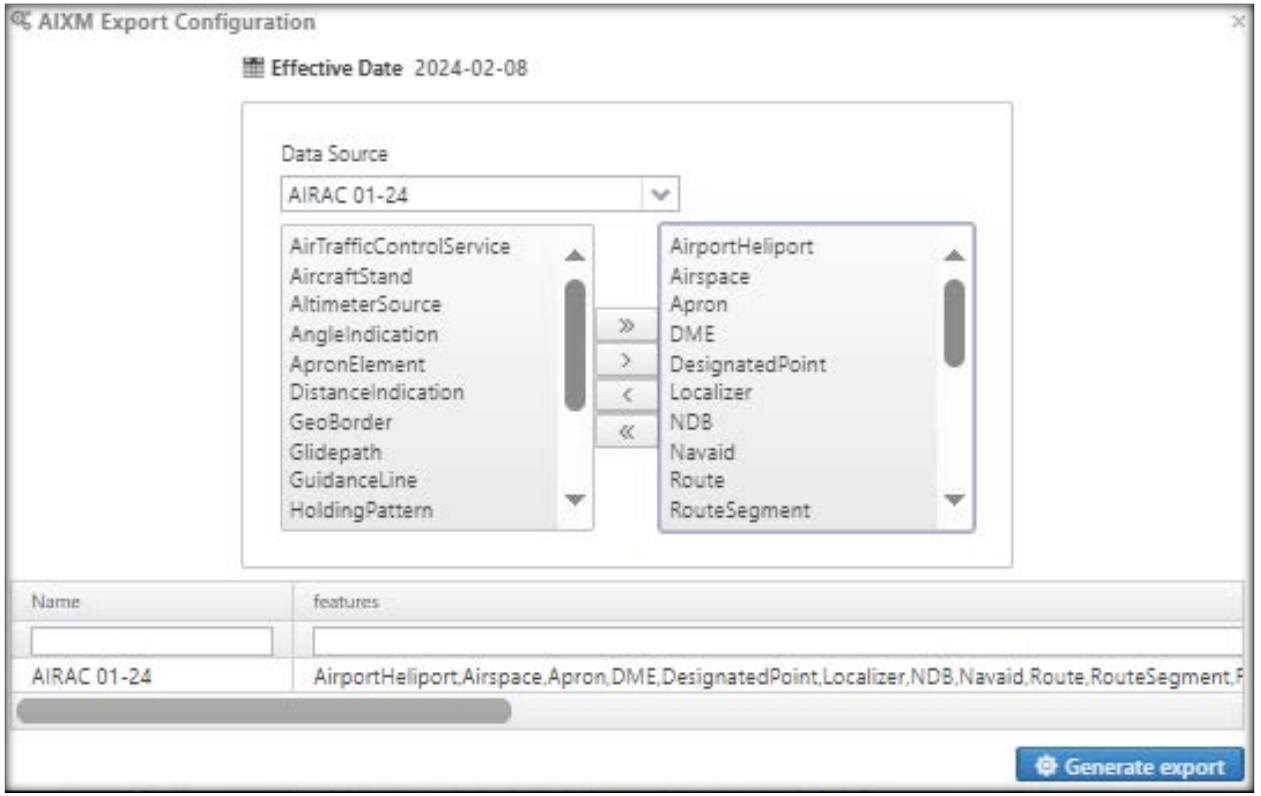
DATA DISTRIBUTION PORTAL

- Data Distribution Portal data sets export



DATA SETS EXCHANGE

- ❑ Mutual disclosure Agreement between SANS/AIM and Jeppesen Signed since October 2023.

- ❑ AIXM Data Validation
  - **Import Issues Check**
    - Allows to identify the Import issues which can prevent data upload.
    - UUID, UOM availability, wrong XML structure, etc.
  - **Missing Links Validation**
    - Check for references to non-existing features.
  - **Geometry Completeness Validation**
    - Check for features with missing geo properties.
  - **AIXM Business Rules Validation**
    - Check for compliance with AIXM business rules:
      - AIXM 5.1 Model Business Rules
      - EAD Business Rules
      - ICAO Annex 15 and Doc 10066 PANS-AIM Business Rules

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KSA-AIM DATA SETS IMPLEMENTATION ROADMAP

Steps/Elements	2023		2024		2025		2026		2027		2028		2029		Priority	Remarks
	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
AIP datasets **(ATS airspace, Special activity airspace, ATS route and other routes, Route segment, Waypoint — en-route, Aerodrome/heliport, Runway, Runway direction, Final approach and take-off area (FATO), Touchdown and lift-off area (TLOF), Radio navigation aid)**															1	**According to Sub-datasets Group requirements**
Instrument Flight Procedure (IFP) Dataset(s)															2	
Aerodrome Mapping Dataset(s)															3	

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