AIRM

Status update

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What is the AIRM?

The ATM Information Reference Model (AIRM)

The AIRM is the Air Traffic Management (ATM) reference vocabulary.
SINCE THE LAST AIRM UPDATE DURING ATIEC 2017...
AIRM is in transition from R&D to DEPLOYMENT.
3.2 SEMANTIC INTEROPERABILITY

3.2.1 Semantic interoperability of the information service payload is achieved by aligning the meaning of the information exchanged with a common reference. The definitions of the information exchanged in an information service payload should be aligned with the Air Traffic Management Information Reference Model (AIRM).

Note – The AIRM is available at the following location: www.aim.aero.

3.2.3 Alignment with the AIRM may be achieved by defining the information exchanged in an information service payload according to an information exchange model that is already aligned with the AIRM.

Note – Guidance on the alignment of the information in an information service payload with the AIRM is provided in Doc 10039 Volume II.
Semantic alignment exercises

Requirements to establish semantic correspondences to the AIRM

ICAO METP has taken ownership of the IWXXM 3.0 mapping to AIRM.
Join the community

There is a role for you.

Contribute
Propose changes to the AIRM and review proposals from other contributors.

more

Monitor
Follow the latest AIRM discussions and upcoming updates.

more

AIRM CCB Members
Your organisation can request to join the AIRM Change Control Board (CCB)

more

http://airm.aero/community.html
Establishment of the AIRM CCB with global participation

International organisations
- ANSPs
- States
- Airports
- Airlines
- ATM industry
- Military

Communities established around standardised information exchange models
To join the AIRM CCB email airm@eurocontrol.int
AIRM Viewer

The AIRM Viewer provides a simplified HTML view of the ATM Information Reference Model (AIRM).

**Terms**

This lists the terms and definitions from the source documents that were used to build the AIRM. For example, it includes terms from ICAO annexes and docs, the WMO and European Regulations.

**Conceptual Model**

This provides a reference of information entities and relationships relevant to the ATM operational discourse. It is intended for use by operational experts. It can be used, for example, in disambiguating terms used in operational documents and developing information exchange requirements.

**Abbreviations**

This lists the abbreviations used in the AIRM.

**Logical Model**

This provides a reference model of data concepts for service architects and system implementers. It contains the entities necessary to model the shared information of ATM. It can be used in order to construct "derived" logical data models and, indeed, exchange models or physical data models. As such, it can be used to create a model that can be used to build services and operations.
Supporting the users: AIRM as a Service

Lets have a look at some tools!

- **TOOLS FOR ADVANCED USERS**
  - EXCEL ADD-IN
  - CONFORMANCE CHECK
  - ONLINE SEARCH
  - PAYLOAD DESIGNER
  -COMPARE PAYLOADS

- **TOOLS FOR BASIC USERS**
  - ONLINE SEARCH
  - CHROME EXTENSION
  - WORD ADD-IN

- **3RD PARTIES**

**DESIGN ENVIRONMENT**

**AIRM DATABASE**

**AIRM API**
Supporting the users: **AIRM as a Service**

### Aerodrome

A defined area on land or water (including any buildings, installations and equipment) intended to be used either wholly or in part for the arrival, departure and surface movement of **Aircraft**.

**Synonyms:** Airport|Heliport|Airport|Heliport;

**Sources:** ICAO Annex 1; ICAO Annex 15; ICAO;

**Related**

- has **AerodromeReferencePoint**
- may provide information for multiple **OperationalFlightInformationService**
- serves **City**
- may be **CoordinatedAirport**
- identified by **AerodromeLocationIndicator**
- uses **AltimeterSource**
- alternate **Aerodrome**
- may be collocated with **Aerodrome**
- has **AircraftStand**
Supporting the users: **AIRM as a Service**

**CodeDataLinkCommunicationCapabilityType**

A code indicating the **Capability** of the **Aircraft** to communicate or receive data.

**Sources:** FIXM;

**Status:** Proposed

| Urn: | urn:aero:airm:1.0.0:LogicalModel:Subjects:Aircraft:Codelists:CodeDataLinkCommunicationCapabilityType |

**Properties**

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Supporting the users: AIRM as a Service

Comming soon!

EXCEL ADD-IN
Connect your software with the **AIRM API**
to retrieve terms, definitions, URNs
and much more!

COMING SOON!

Using the AIRM
Find out the best way to use the AIRM.
Learn More

http://airm/dictionary-items?page=1&predicate=airport&version=AIRM%201.0.0
Contribute

Propose changes to the AIRM and review proposals from other contributors.

Any member of the AIRM Community can submit a change request.

Register now if you haven’t done it yet, or access to the work area:

Access

Monitor

Follow the latest AIRM discussions and upcoming updates.

Take advantage of the advanced features like personalised alerts.

Register now if you haven’t done it yet, or access to the work area:

Access

AIRM CCB Members

Your organisation can request to join the AIRM Change Control Board (CCB)

Becoming an AIRM CCB member allows you to help guide the AIRM so that it continues to be effective for you and the wider AIRM community.

Register now if you haven’t done it yet, or access to the work area:

Access
What is the AIRM?

The AIRM is the Air Traffic Management reference vocabulary. It constitutes the knowledge on information and data that is exchanged within the ATM community.

Using the AIRM promotes semantic interoperability - the ability to exchange information with unambiguous, shared meaning. The AIRM therefore serves a role in the overall interoperability improvements achieved by SWIM.

More about the AIRM

I can't find my concepts in the AIRM. Will that impact my ability to exchange information?

Who is behind the AIRM?

How much the AIRM cost?