

FAQ: ATM Information Reference Model (AIRM)

1. [What is the ATM Information Reference Model \(AIRM\)?](#)
2. [What are its benefits?](#)
3. [What does it look like?](#)
4. [Where can I find it?](#)
5. [What should I read first?](#)
6. [When can I expect it?](#)
7. [How is the AIRM used within SWIM?](#)
8. [How is the AIRM used by systems?](#)
9. [How is the AIRM used by Architects and Operational Projects?](#)
10. [How do I get involved?](#)

1. Question: What is the ATM Information Reference Model (AIRM)?

The ATM Information Reference Model:

- Is used as a **common reference** for the different models that will be developed as part of SESAR
- Represents civil, military and civil-military **information constructs relevant to ATM**



2. Question: What are its benefits?

The AIRM brings many benefits.

On a strategic level the AIRM:

- Ensures semantic interoperability within ATM
 - Ensures that the same name means the same thing in all parts of the system
 - Enables users to seamlessly combine and process information from more than one provider
- Is a key tool in promoting ATM information standards worldwide

Now, no-one to my knowledge has ever accused AIRM of being "sexy" but it is crucial. It's vital for global interoperability... (see <http://www.eurocontrol.int/articles/need-speed>)

On a practical level the AIRM intends to:

- Promote consistent information/data modelling
- Reduce redundancy in the models
- Promote reuse of the existing constructs
- Reduce future modelling effort

3. Question: What does it look like?

The AIRM has 5 main components:

- AIRM Primer
- AIRM Glossary
- AIRM Foundation
- AIRM Information Model
- AIRM Consolidated Logical Data Model

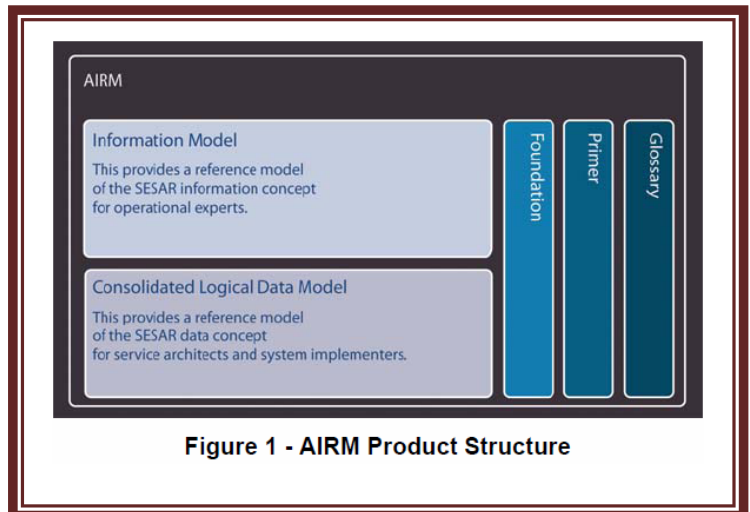


Figure 1 - AIRM Product Structure

4. Question: Where can I find it?

On the SESAR Extranet:

https://extranet.sesarju.eu/WP_08/Project_08.01.03/Project%20Plan/Forms/AllItems.aspx

SESAR extranet

5. Question: What should I read first?

The following AIRM Primer document gives an overview:

https://extranet.sesarju.eu/WP_08/Project_08.01.03/Project%20Plan/8.1.3.D12_AIRM_Primer.doc

6. Question: When can I expect it?

- Major Releases are planned for September 2011, 2013 and 2015
- Intermediate and hot-fix releases will occur as needed

7. Question: How is the AIRM used within SWIM?

SWIM is about connecting the ATM World

- Information will be exchanged
- That exchange needs to be interoperable
- AIRM is a key enabler of SWIM

8. Question: How is the AIRM used by systems?

Many of the same considerations that apply to SWIM apply between systems:

- Still a need to exchange data
- Still a need for interoperability
- The AIRM Consolidated Logical Data Model supports this

9. Question: How is the AIRM used by Architects and Operational Projects?

They define:

- Information exchanged between nodes
- The AIRM Information Model ensures the information needs are understood and a structure given to them
- This can be reused in other NAF views

10. Question: How do I get Involved?

The AIRM will evolve over time as new needs become clear. In order to ensure the evolution is handled in an open and managed manner the AIRM Governance mechanisms have been put in place. The mechanisms are also used to build consensus.

As part of the AIRM Governance, there are regular Review Forums to:

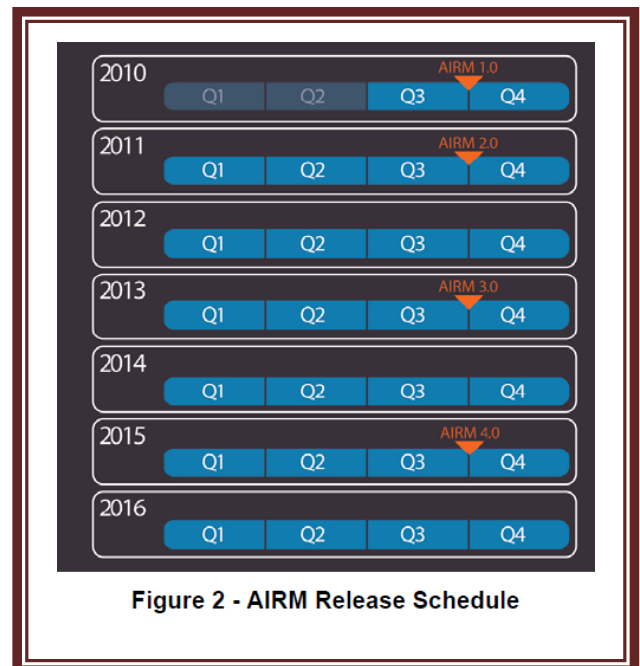


Figure 2 - AIRM Release Schedule

- Ensure that a review of the entire AIRM takes place
- Maintain contact with those who might have direct or indirect interest the AIRM
- Disseminate information widely about the status of the AIRM
- Gather information about perceived problems with the AIRM.

If you would like to find out about the AIRM and/or attend an AIRM Review Forum please contact the SWIM team (swim@sesarju.eu) for more information.