

# 1 ATM Information Reference Model (AIRM) Executive Summary

## 1.1 What is the ATM Information Reference Model?

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**



## 1.2 What are its benefits?

The AIRM brings many benefits:

On a **strategic level** the AIRM intends to:

- Ensure **semantic interoperability** within ATM
  - Ensure that exchanged data share the same meaning at both their origin and their destination
  - Enable systems to combine and process received information from other resources – information sharing
- Encourage 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 modelling
- Reduce redundancy in the models
- Promote reuse of the model
- Reduce future modelling effort

## 1.3 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

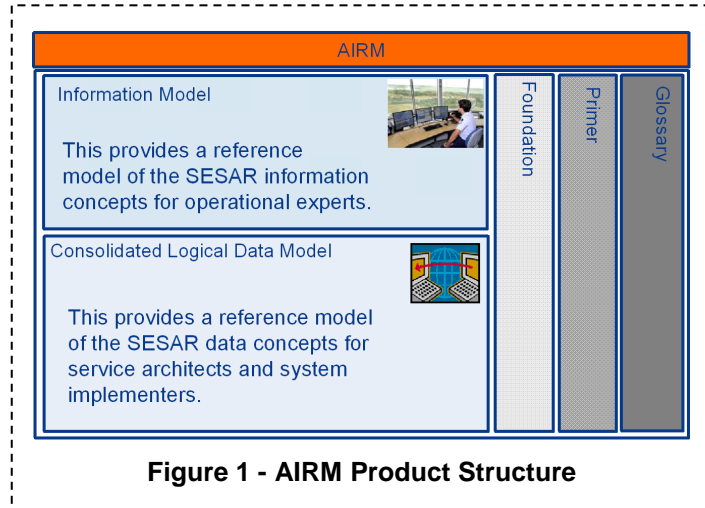


Figure 1 - AIRM Product Structure

## 1.4 Where can I find it?

On the SESAR Extranet: [SESAR extranet](#)

## 1.5 What should I read first?

The AIRM Primer gives an overview: [AIRM Primer](#)

## 1.6 When can I expect it?

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

## 1.7 How does it affect 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

## 1.8 How does it affect systems?

Many of the same considerations apply between systems:

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

## 1.9 How does it affect 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

## 1.10 How do I get involved?

AIRM Governance is the mechanism to build consensus. There are regular Review Forums to:

- Ensure that a review of the entire ATM Information Reference Model (AIRM) will take place
- Maintain contact with a wide group of people in SESAR who might have direct or indirect interest the AIRM
- Disseminate information widely about the status of the AIRM
- At its meetings, gather information about perceived problems with the AIRM

Contact the SWIM team ([swim@sesarju.eu](mailto:swim@sesarju.eu)) for more information.

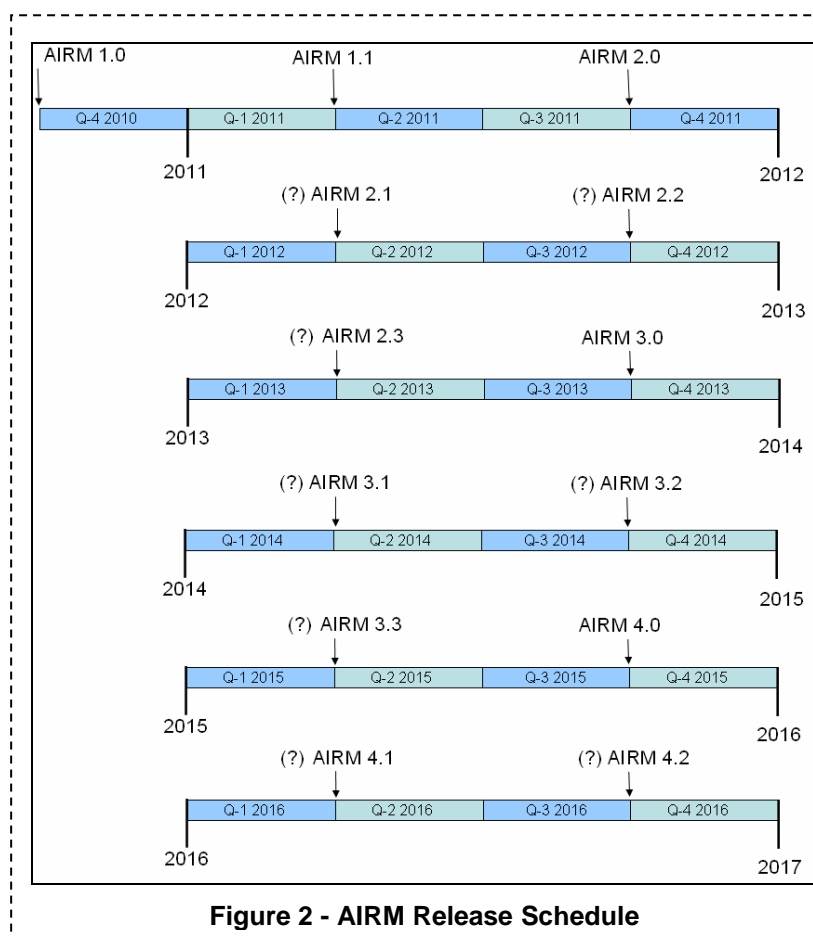


Figure 2 - AIRM Release Schedule