Global Harmonization Through Collaboration

An Enterprise Architecture Approach

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AIR TRANSPORTATION INFORMATION EXCHANGE CONFERENCE - (FEATURING AIXM, WXXM AND FIXM)

> August 28, 2012 - August 31, 2012 NOAA Auditorium and Science Center Silver Spring, Maryland



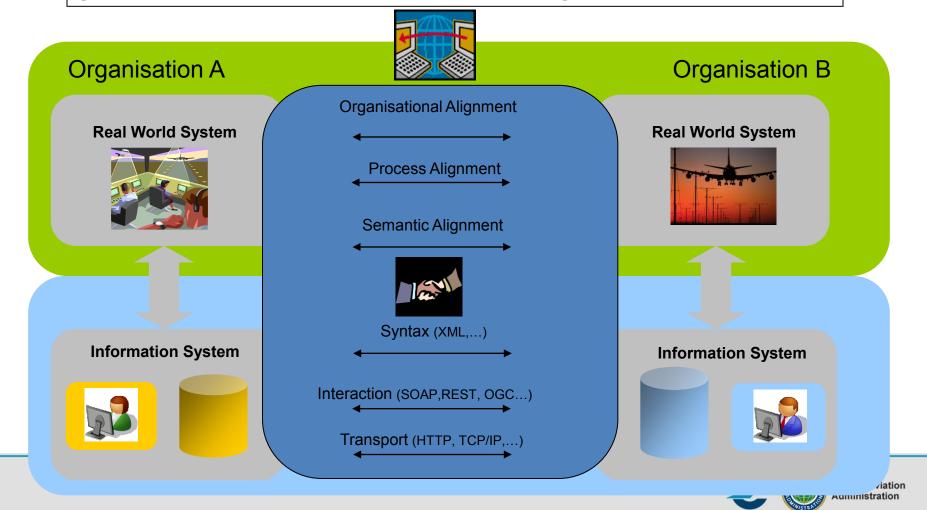
The heart of SWIM: achieving ATM Interoperability



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An Entreprise Architecture provides the key components and a governance structure to help achieve this goal.



What is an Entreprise Architecture?



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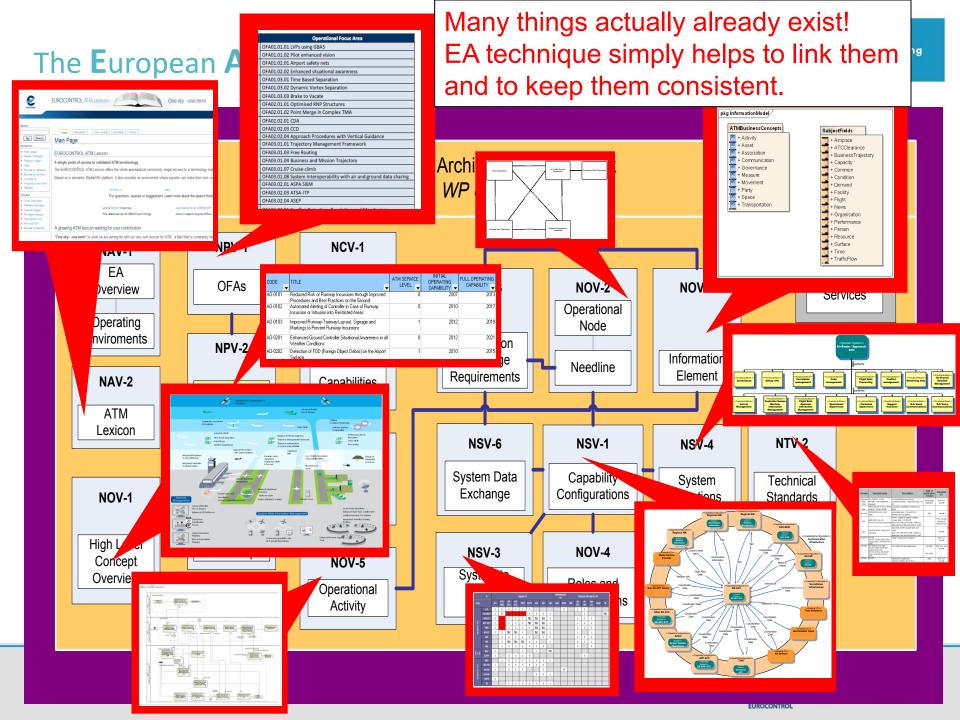
An Enterprise is a collection of organisations that share a common set of goals





- An Architecture is the fundamental of organising:
 - Components,
 - their Relationships,
 - Principles governing their Design and Evolution.

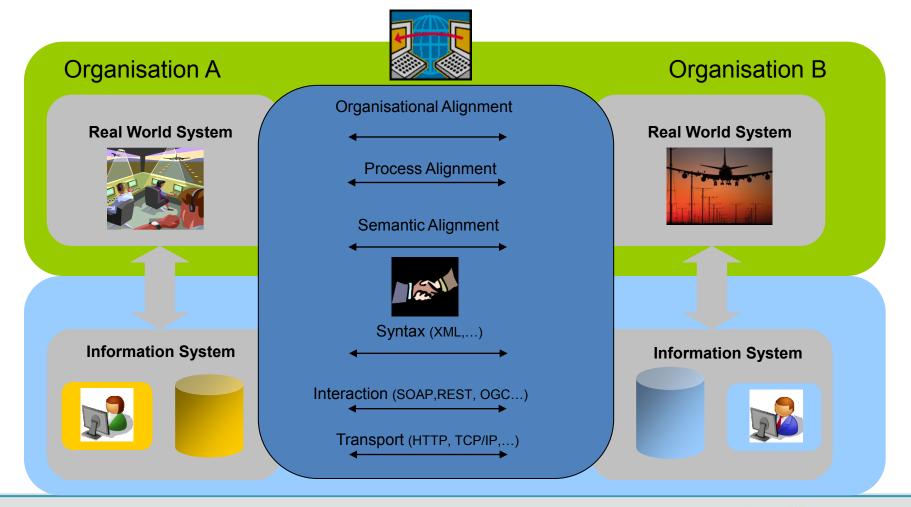




Achieving ATM Interoperability How does the EAEA actually help?

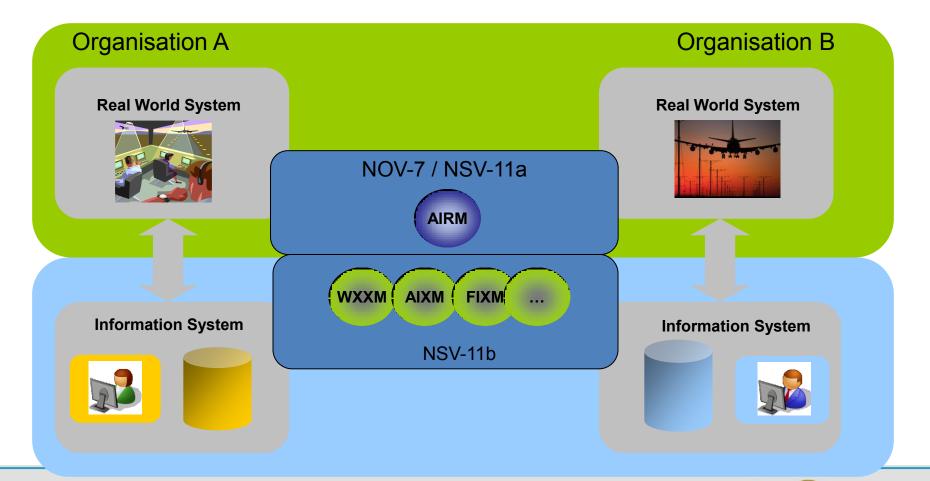


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Achieving ATM Interoperability How does the EAEA actually help?





Federal Aviation Administration AIRM - There's a lot in the name...



ATM Information Reference Model

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

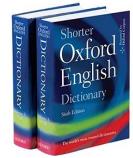












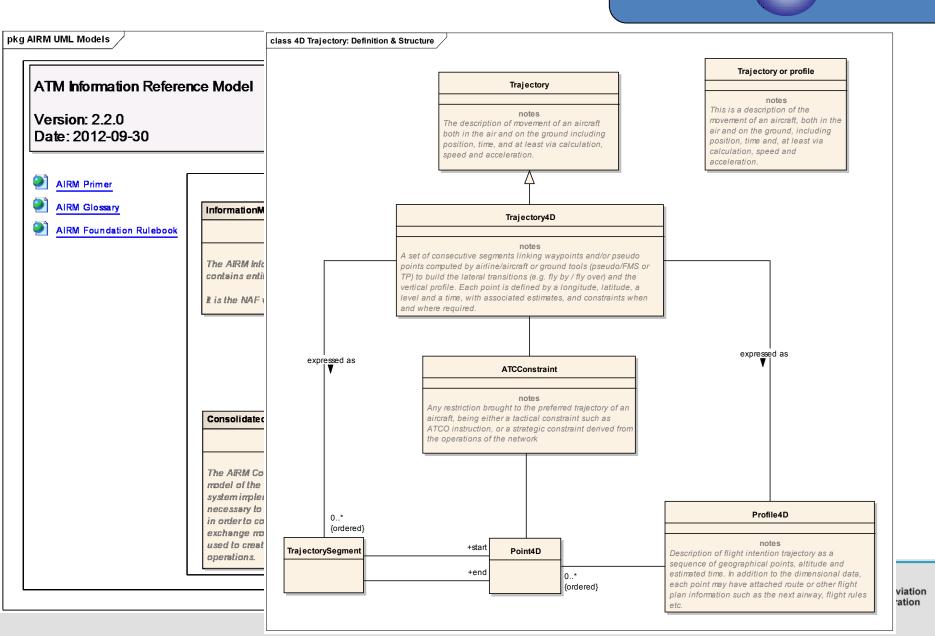
+ Promote ATM Information Standards, European and Globally Semantics



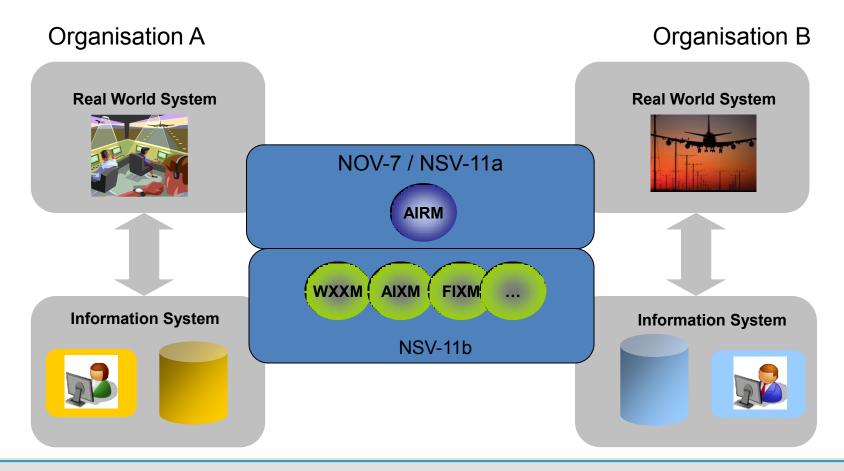
How does the AIRM look like?

NOV-7 / NSV-11a

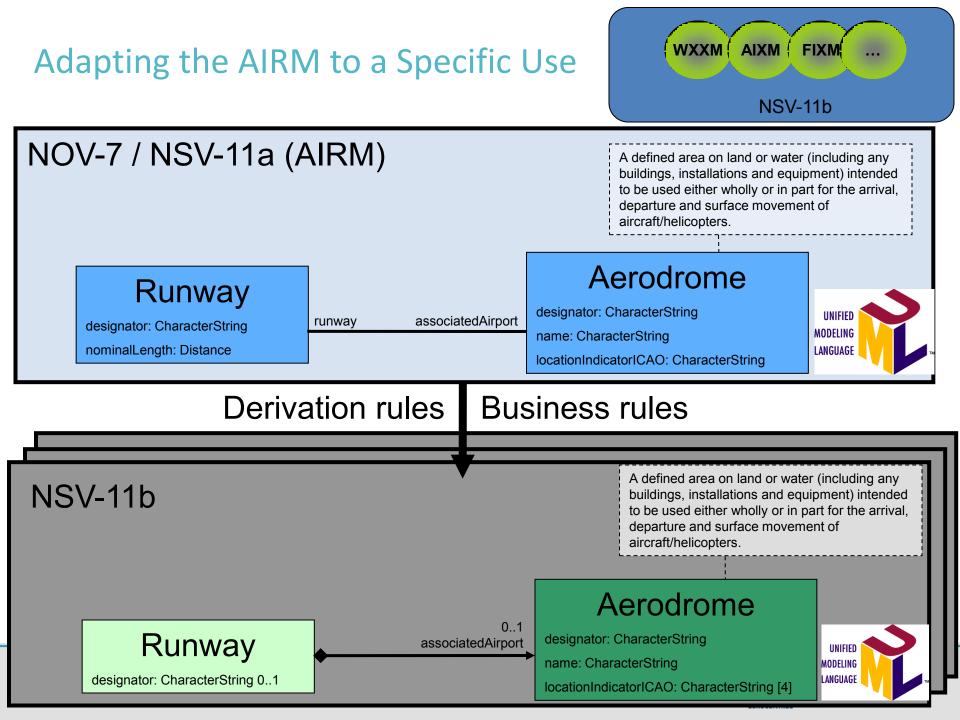


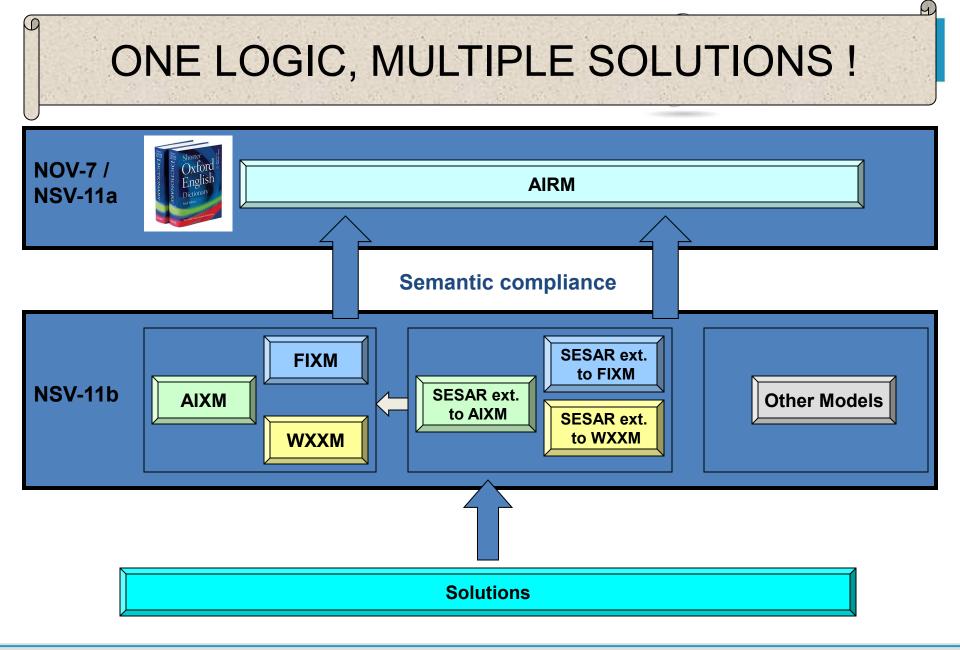


Achieving ATM Interoperability How does the EAEA actually help?











EAEA, AIRM, AIXM, WXXM, FIXM... <u>Key Points</u>



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- EAEA
 - Provides key components and a governance structure to achieve ATM interoperability within SESAR
 - Acts as a management tool
- AIRM
 - Is a key component of the EAEA
 - Achieves ATM semantic interoperability
 - Standardises the operational language and provides a seamless reference data model for builders

• AIXM, WXXM, FIXM

- Are key components of the EAEA
- Define & specialize the AIS, Met and Flight information elements to be exchanged between systems
- Remain semantically compliant with the AIRM

• Within SWIM

- As a minimum, achieve semantic interoperability (AIRM compliance)
- Achieve a better level of interoperability whenever possible, through common –XMs and shared service models
- Solutions based on XMs, XM extensions, or newly defined payloads.



Towards a <u>global</u> Information Management Framework...



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Note: Inspired by the EC European Interoperability Framework



Questions



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