Global Harmonization Through Collaboration

AIXM - CCB

Federal Aviation Administration

EUROCONTROL

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

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

Presented By: *Eddy Porosnicu*
                    Eurocontrol
Date: *August 28, 2012*

Proposed Agenda

- AIXM CCB status
- AIXM CCB Charter
  - Present, discuss, approve
- Registration process
- AIXM 5.1.1
  - Potential changes
  - Planning
- AIXM 5.2
  - Potential changes
  - planning

AIXM CCB Status

CCB Charter

Registration process

Air Transportation Information Exchange Conference - (featuring AIXM, WXXM and FIXM)

- CCB
  - See link on http://www.aixm.aero
  - One representative per organisation/company (or Department for very large organisations
  - No deadline, you are welcome at any time!
- CCAB
  - Eurocontrol and FAA will contact organisations/groups as indicated in the Charter to seek participation in the CCAB
  - SEP-OCT 2012

AIXM Forum & Wiki

Forum | AIXM

> Join the AIXM Forum
> Visit the AIXM Forum
> Visit the AIXM Wiki

AIXM 4.5

→ To download content for the previous version of AIXM (AIXM 4.5), please visit its website:
> AIXM 4.5

Maintenance and Evolution

→ AIXM 5 was initialy developed by the US Federal Aviation Administration (FAA) and the European Organisation for the Safety of Air Navigation (EUROCONTROL) with support from the international community.

→ The further evolution of the AIXM shall be managed in the interest of the largest number of AIXM stakeholders. A Change Control Board ("CCB") with international participation is therefore established.
> AIXM CCB

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AIXM 5.1.1

- **Minor Release**
  - UML model - no changes to classes, attributes, associations
    - Migration from RationalRose (IBM) to EA (Sparx)
    - Possibly, improvements of definitions
  - XML Schema improvements/corrections, e.g. gml:identifier for <<objects>>
  - Associated documentation corrections/improvements?

AIXM 5.1.1

- Planning:
  - All candidate issues identified by end October 2012
  - Change Proposals defined by end November 2012
  - Review period until end 2012
  - Report to CCAB beginning of January 2013
    - INLCUDING A CANDIDATE RELEASE
  - Publication FEB 2013
    - UML model
    - XML Schema
    - Other documentation updates
    - Mapping guidelines and XSLT scripts AIXM 5.1.1 <-> AIXM 5.1

AIXM 5.1.1

- **Migration to EA (Sparx)**
  - Version 8.0
  - Instead of Rational Rose (IBM)
  - Includes UML model and UML to XSD scripts (also for extensions)
    - Drafts available
    - Requires detailed checking against AIXM 5.1 MDL/XSD
      - Manual process -> volunteers are welcome!
        - » GoogleDocs for tracing the verification process, class by class
  - Sparx offer:
    - "standards contribution license" for CCB Members
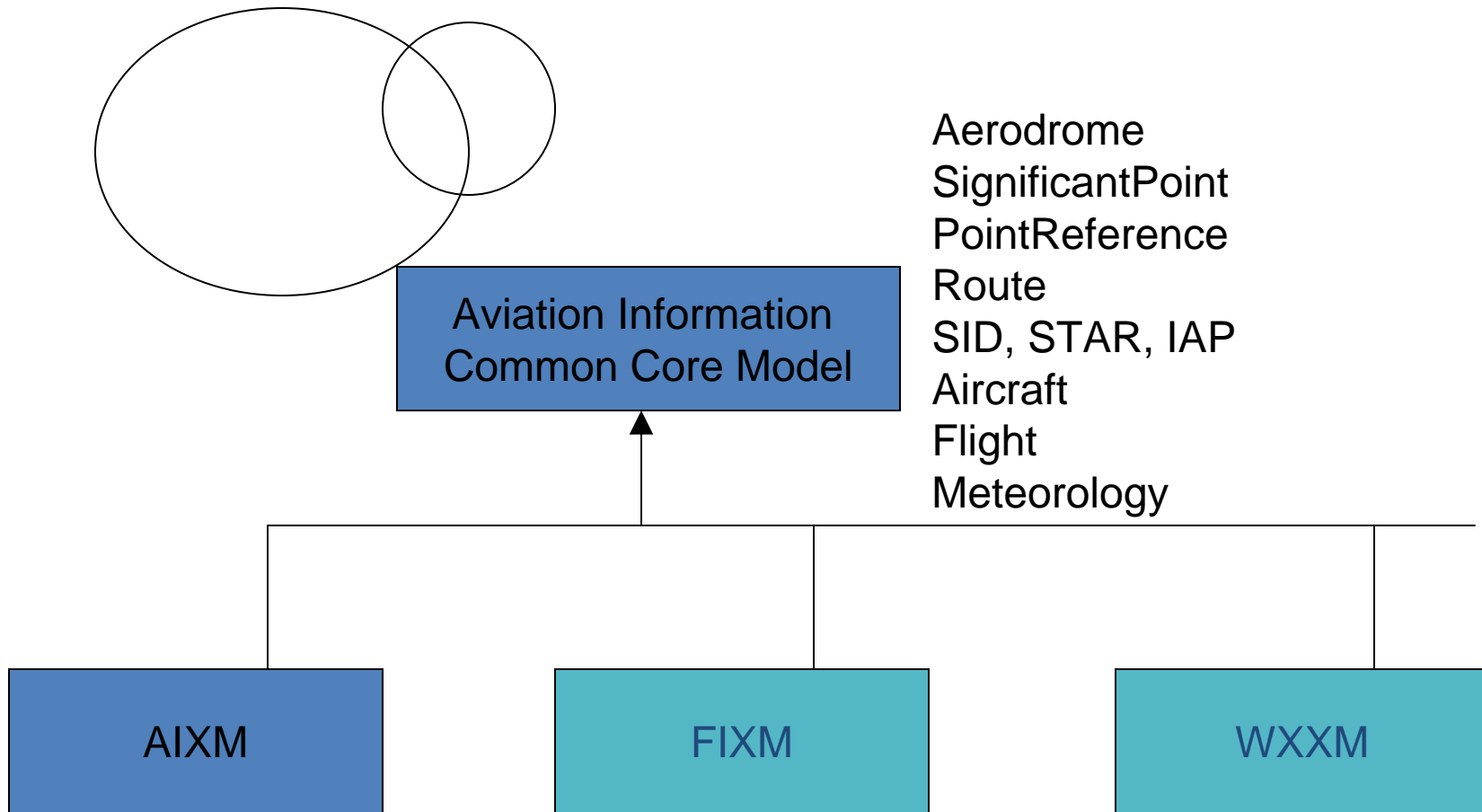 - Expected difficulty: how to preserve order of XML elements that correspond to associations?

AIXM 5.1.1

Aviation Information Common Core Model

Aerodrome
SignificantPoint
PointReference
Route
SID, STAR, IAP
Aircraft
Flight
Meteorology

AIXM

FIXM

WXXM

AIXM 5.1.1

- Other potential changes
  - bug corrections
    - See known issues list on Wiki
    - Note.poropertyName does not allow "ARP" and "_"
  - gml:identifier for <<object>>
  - allow empty AIXM_BasicMessage
  - Temporality document
    - Clarify time intervals : is end time included/excluded?
    - Clarification in the excluded elements of Timesheets
    - Other issues?

AIXM 5.2

- Regular update
  - backwards compatible with AIXM 5.1 (deprecation instead of simple removal)
  - allow new classes, properties, associations where **operationally** required
  - Including mapping rules to AIXM 5.1
  - eventually mapping code (XSLT) provided as part of the release

AIXM 5.2

- Planning:
  - All Change Proposals defined by end September 2013
  - Publication of Candidate Release by end 2013
  - Review period until end February 2014
  - Report to CCAB beginning of March 2014
  - Publication April 2014
    - UML model
    - XML Schema
    - Other documentation updates
    - Mapping guidelines and XSLT scripts AIXM 5.1 <-> AIXM 5.2
    - List of new capabilities and implementation timeline recommendation

AIXM 5.2 – Potential changes

- **Airport model**
  - alignment with ED 99/ DO 272 – version C
  - signs
  - runway entrance/status lights
  - "Runway ahead" marking
  - EMAS
  - passenger terminal
  - Surface contamination model update
  - PCN missing value for tire pressure

- **Free route airspace**
  - Routes with variable upper/lower limits
  - "Offset" flying on routes

- **Seaplane landing area model refinement**
  - Missing association AirportHeliport to SeaplaneLandingArea

AIXM 5.2 – Potential changes

- Magnetic variation as <<object>>
- SATVOICE address type
- MET products in Services Model
- Moving obstacles
- Channel spacing in RadioCommunicationChannel
- Surveillance model refinement
- Airspace class on Airspace Volume

AIXM 5.2 – Potential changes

- Procedures Model
  - "procedure altitude" ?
  - MET equipment
  - RNP data block adjustments
  - Recommended navaid
  - Alternative terminations for a procedure leg
  - unclear meaning of the ObstacleAssessmentArea.gradientLowHigh attribute

AIXM 5.2 – Potential changes

- **Alignment with FIXM/WXXM**
  - Use ISO standard for units of measurement
  - Refer to FIXM "Aicraft" and "Flight" capabilities instead of local AircraftCharacteristics and FlightCharacteristics classes
  - Refer to WXXM class (?) instead of local Meteorology class

- **Other**
  - Notes to allow images?

Contact Information

Air Transportation Information
Exchange Conference – (featuring
AIXM, WXXM and FIXM)

- Eddy Porosnicu (EUROCONTROL)

  eduard.porosnicu@eurocontrol.int

  +32 (2) 729-3326

- Deb Cowell (FAA)

  Deborah.Cowell@faa.gov

  +1 (202) 385-7077

Federal Aviation
Administration