

EUROCONTROL's Efforts with AIXM

AIXM 5.1 XML Developers' Seminar #3 – Jan 2010

Overview

- **Current work on AIXM 5.1**
 - Update of AIXM 5.1 Documentation
 - Mapping AICM 4.5 -> AIXM 5.1
 - Mapping AIXM 5.0 <-> AIXM 5.1 + xslt scripts
 - AIXM 5.1 Business rules
 - eASM extension
- **AIXM 5 Implementations**
 - Digital NOTAM
 - Digital NOTAM / SNOWTAM trials
 - EAD

Current work on AIXM 5.1

- Update of AIXM 5.1 Documentation
- Mapping AICM 4.5 -> AIXM 5.1
- Mapping AIXM 5.0 <-> AIXM 5.1 + xslt scripts
- AIXM 5.1 Business rules
- eASM extension

Update of AIXM 5.1 Documentation

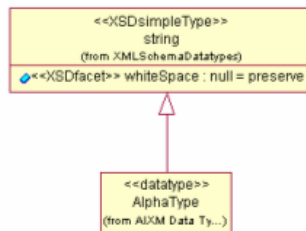
- **AIXM UML to AIXM XSD Mapping v1.1**
 - nilReason attribute
 - Up to date examples
 - Particular cases

4.11.5 → Particular cases¶

4.11.5.1 <<datatype>> with no Base Type¶

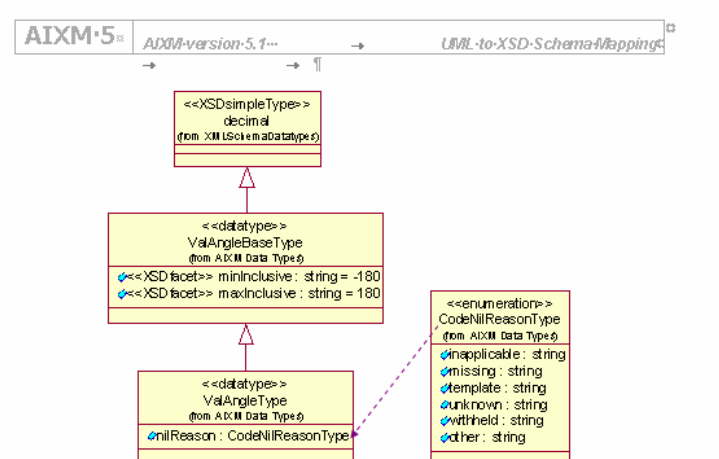
The 5 data types listed in 2.7.1.1 map directly to the built-in datatypes defined by the XML schema specification. The default datatypes are string, float, double, etc., which are considered simpleTypes. ¶

The AlphaType acts as a convenient example. ¶



```

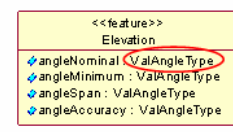
<simpleType name="AlphaType">
  <restriction base="xsd:string">
    <pattern value="[A-Z][A-Z]*"/>
  </restriction>
</simpleType>
  
```



```

classDiagram
    class decimal["<<XSDsimpleType>> decimal (from XMLSchemaDatatypes)"]
    class ValAngleBaseType["<<datatype>> ValAngleBaseType (from AIXM Data Type)"] {
        <<XSDfacet>> minInclusive : string = -180
        <<XSDfacet>> maxInclusive : string = 180
    }
    class ValAngleType["<<datatype>> ValAngleType (from AIXM Data Type)"] {
        nilReason : CodeNilReasonType
    }
    class CodeNilReasonType["<<enumeration>> CodeNilReasonType (from AIXM Data Type)"] {
        inapplicable : string
        missing : string
        template : string
        unknown : string
        withheld : string
        other : string
    }
    decimal <|-- ValAngleBaseType
    ValAngleBaseType <|-- ValAngleType
    CodeNilReasonType ..> ValAngleType
  
```

On the example above, the base-type used to represent an angle is named **ValAngleBaseType**. It derives from decimal and defines the range of values allowed for an angle percentage (-180,180). The derived datatype **ValAngleType** inherits from **ValAngleBaseType** and includes the **nilReason**, typed with **CodeNilReasonType**. **ValAngleType** is always used to type the percentages specified in AIXM features or AIXM objects. ¶



```

classDiagram
    class Elevation["<<feature>> Elevation"] {
        angleNominal : ValAngleType
        angleMinimum : ValAngleType
        angleSpan : ValAngleType
        angleAccuracy : ValAngleType
    }
  
```

¶ A limited set of data types defined in the AIXM 5.1 UML model are not used to type directly AIXM simple properties but are basic classes from which several AIXM data types inherit. These data types are: **AlphaType**, **AlphaNumericType**, **Character1**, **Character2**, **Character3**. They do not require a **nilReason** attribute, and consequently, no corresponding **BaseType** types are defined in the AIXM UML model. ¶

¶ In addition, certain <<datatype>> might have an associated Unit Of Measurement. This is indicated in the model by the inclusion of a "uom" attribute at the same level as the **nilReason** attribute, i.e. in the definition of the derived <<datatype>> class. The type of the **uom** attribute is typically an <<enumeration>> class, as shown below. ¶

• AIXM Temporality

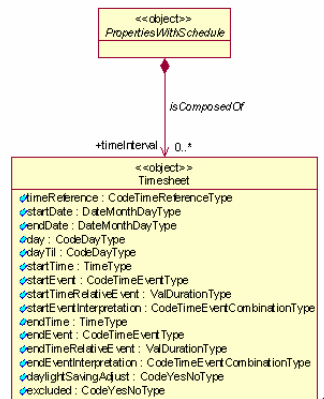


Extension mechanism allows each user of AIXM 5 to define and use his own specific attributes and classes, in addition to the core AIXM ones.

The diagram above is quite complex. If applied to the whole set of AIXM classes, it might undermined the readability of the UML diagrams. Therefore, the Design Team has decided to provide a simplified UML model, without visible inheritance of all features from the abstract AIXM feature, and without visible SomeFeatureTimeSlice classes. However, the split and into SomeFeatureTimeSlice classes is assumed to exist, when converting from the UML model to the XML Schema of AIXM.

2.8 Properties with schedule

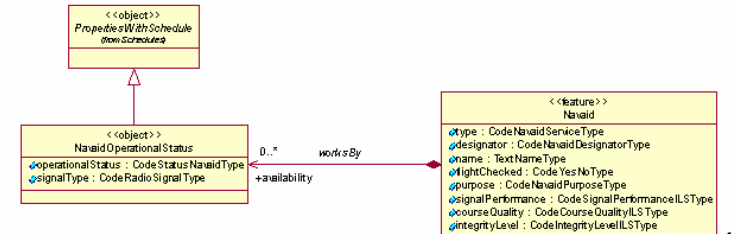
In some cases, one or more properties of a feature may have their own cyclic variation in time according to an established schedule. As an example, a `NavAid` can be operational during day time and unserviceable during night time. To model this concept, AIXM 5.1 specifies the abstract class `PropertiesWithSchedule`, which is composed of zero or more `Timesheet(s)`.



The Timesheet class contains the time reference system (UTC-12 to UTC+14), daylight saving... and provides the possibility to include/exclude specified times. It can for instance represent:

- a single repetitive time period, such as "each Monday from 10:00 to 16:00";
- a single time block spreading over several days, such as "From each Monday 10:00 till Thursday at sunset";
- a date range, such as "every year from 15-OCT to 15-MAY";
- etc...

At the feature level, all the properties that change according to an established schedule must be isolated in a separate class which inherits from `PropertiesWithSchedule`, as illustrated below with class `NavAidOperationalStatus`.



Discussion: Is there any alternative to introducing the "properties with schedule" concept?
Another solution could be to include "schedules" in the `TimeSlice` concept and make a schedule usable for any feature. That would have two disadvantages.

If an attribute, such as the value of a declared distance, has one value during day and another value during night, each of the two values would need to be part of a different Baseline. Each of the two Baselines would have a schedule that would indicate when they are applicable. But the two Baselines would have overlapping validity times. This would significantly complicate the Temporality concept of AIXM.

The analysis also shows that, frequently, schedules really concern just one or two attributes. Having the schedule at the level of the feature would cause this aspect to be lost.

Therefore, the introduction of the attribute with schedule concept is considered the most convenient approach.

Update of AIXM 5.1 Documentation

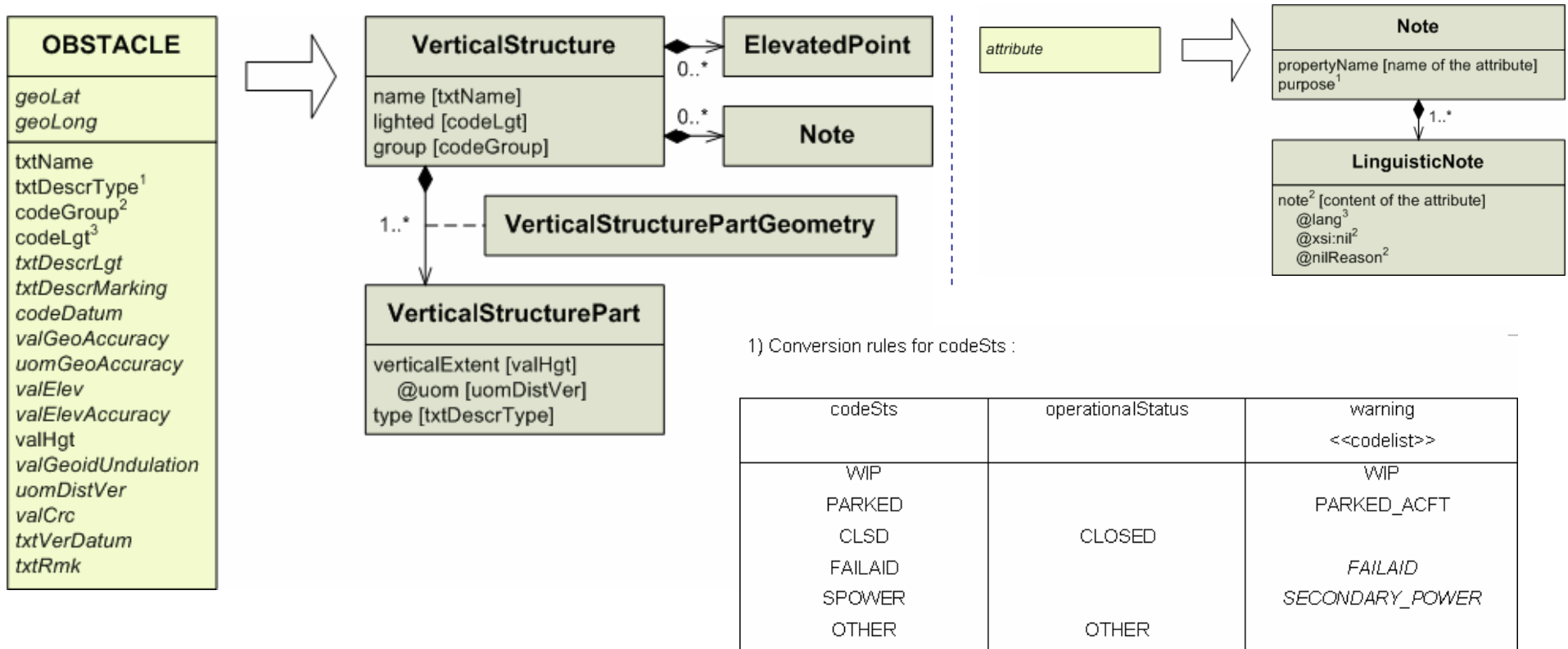
- **AIXM Application Schema Generation 1.1**
 - Update examples to reflect 5.1 changes
 - ...
- Once finalised, all these documents:
 - Will be posted on the AIXM forum
 - Will be available for download on www.aixm.aero

Mapping AICM 4.5 -> AIXM 5.1

- The **need** for such a conversion:
 - Today, much aeronautical data is structured according to **AIXM 4.5**
 - It is expected that implementers will progressively move towards **AIXM 5**
- A contract was awarded in **November 2009**. Objectives:
 - **Entity** to **class** mapping
 - **Attribute** to **property** mapping
 - **Attribute value** to **property values**
 - Processes involved in the mapping (**merge** of values...)
 - Mapping of AICM 4.5 **geographical** elements to **GML**

Mapping AICM 4.5 -> AIXM 5.1

- The deliverable is almost finalised.



- It will be posted for review on the AIXM forum.

Mapping AIXM 5.0 <-> AIXM 5.1 + xslt scripts

- Part of the same contract
- Objectives:
 - Provide a **5.0->5.1** mapping and a **5.1->5.0** mapping
 - Use a **technique similar** to the one employed for the 4.5->5.1 mapping
 - **Limited** to the list of **differences** between AIXM 5.0 and 5.1
 - Develop **XSLT scripts** implementing these rules
- For the 5.1->5.0 mapping, an **AIXM 5.0 extension** will be created to gather the new AIXM 5.1 elements.

AIXM 5.1 Business rules

- Definition of “business rules” has been standardized by OMG since Jan 2008

rule

Definition:

proposition **that** is a claim of obligation **or** of necessity

Dictionary Basis:

one of a set of explicit or understood regulations or principles governing conduct or procedure within a particular area of activity ... a law or principle that operates within a particular sphere of knowledge, describing, or prescribing what is possible or allowable. [ODE]

business rule

Definition:

rule **that is** under business jurisdiction

General Concept:

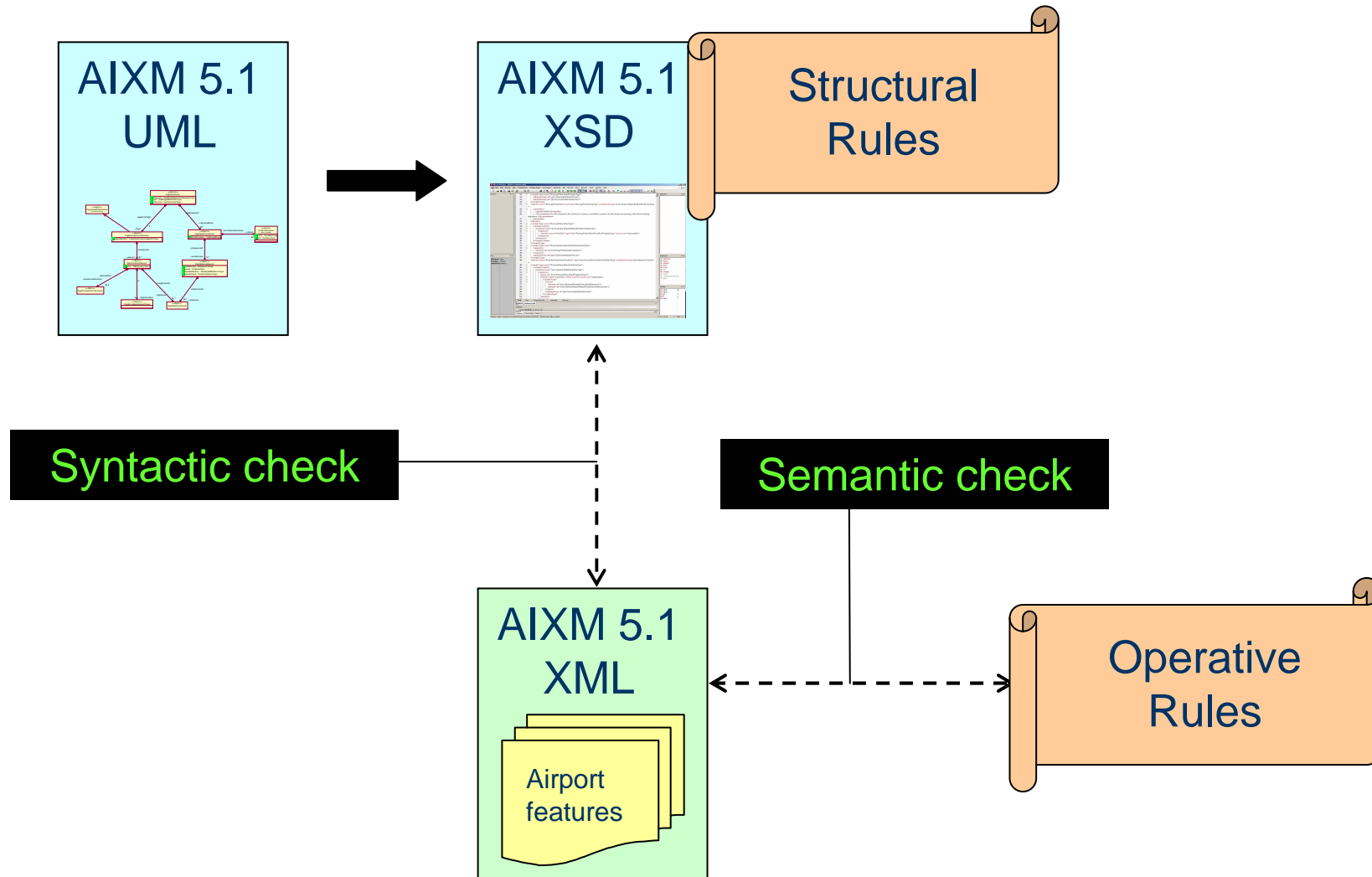
rule, element of guidance

Note:

A rule’s being “under business jurisdiction” means that it is under the jurisdiction of the semantic community that it governs or guides - that the semantic community can opt to change or discard the rule. Laws of physics may be relevant to a company (or other semantic community); legislation and regulations may be imposed on it; external standards and best practices may be adopted. These things are not business rules from the company’s perspective, since it does not have the authority to change them. The company will decide how to react to laws and regulations, and will create business rules to ensure compliance with them. Similarly, it will create business rules to ensure that standards or best practices are implemented as intended. See subclause A.2.3

- See *Semantics of Business Vocabulary and Business Rules (SBVR), v1.0*
 - Chapter 12.1.2
 - Annex A.2.3

AIXM 5.1 Business rules



AIXM 5.1 Business rules

- The need for AIXM 5.1 Business Rules:
 - Business rules for **AIXM 4.5** must be **adapted to AIXM 5.1** as data provider systems will gradually move towards AIXM 5
 - AIXM 5 does **no** longer specify **mandatory properties or associations for a feature.**
- A contract was awarded in December 2009.

AIXM 5.1 Business rules

- **Objectives:**
 - Define a **set of AIXM 5.1 business rules** based on:
 - AIXM **4.5** business rules
 - **ICAO Annex 10, 11, 14** and **15** and the **ICAO PANS-OPS**
 - **Temporality** Concept document (including PropertiesWithSchedule)
 - **Activation/Usage** concept
 - draft **AIXM GML** profile
 - (Optional) Arinc424-A specification
 - Provide as a proof-of-concept an **implementation** of these rules in **Schematron** language
 - Upgrade Eurocontrol's tool **ARC** which performs Schematron validation of AIXM data

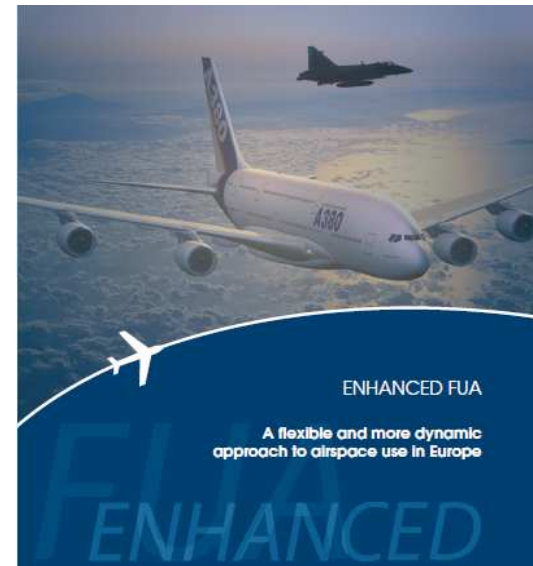
AIXM 5.1 Business rules

- The result of this work will be an **Excel report**
 - Containing **textual rules** classified by type etc...
 - Providing **Schematron** code
- AIXM Users will be able to pick-up the rules they need for their systems

Source	\$	Rule textual description	Comments	AIXM Class	AIXM Attribute	AIXM Association	Category	Level	Name	AIXM Rule Type	AIXM Rule Ident	AIXM - Schematron Rule Context	AIXM - Test Ident (assert ident) ?	AIXM - Schematron rules - full description
Activation / Usage		An airport that is under military control cannot forbid military flights.		AirportAvailability	Consistency rule	Error						

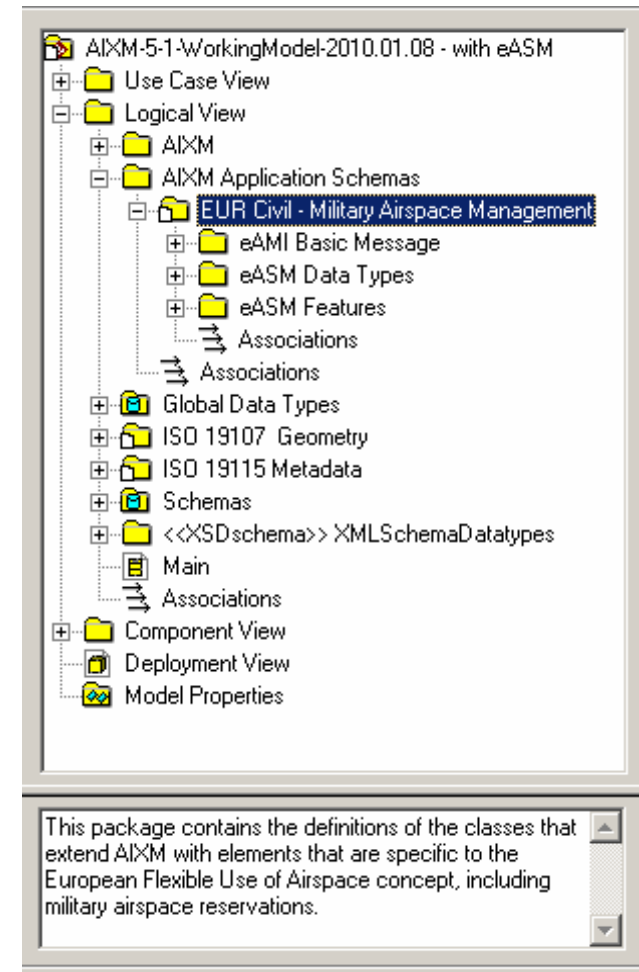
eASM extension

- European “**Flexible Use of Airspace**” concept:
 - Airspace is no longer designated as purely "civil" or "military" airspace
 - Any necessary airspace segregation is temporary, based on real-time usage within a specific time period.
 - Contiguous volumes of airspace are not constrained by national boundaries.
- Pan-European implementation has not been feasible in the past
 - Main problem: **Data diversity**
 - **Terminology** was **different** between **civil** and **military** stakeholders

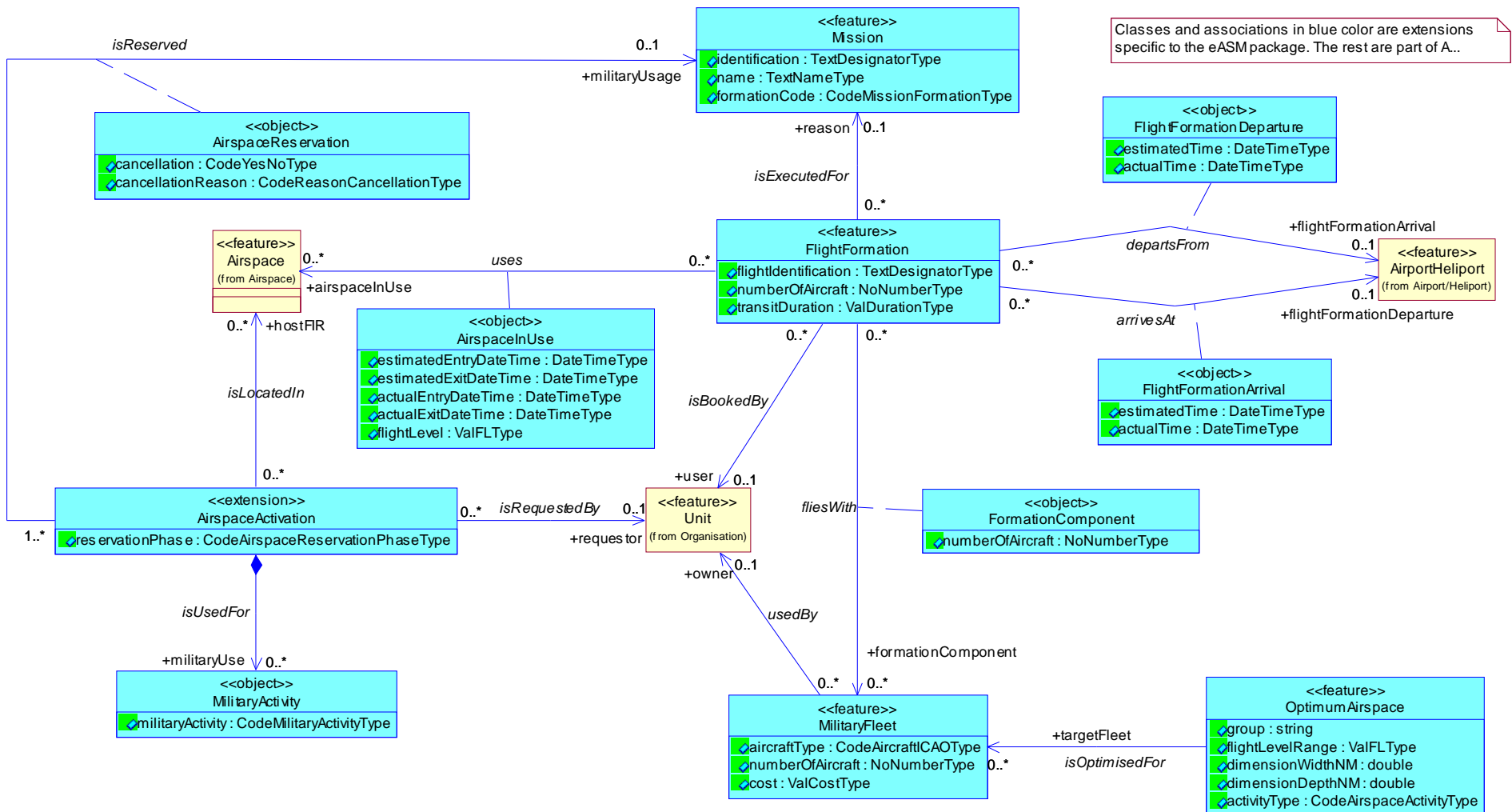


eASM extension

- The eASM **extends AIXM 5.1** to support the FUA concept
- The eASM **Conceptual Model** defines:
 - **Airspace activation**
 - **Conditional route closure/activation**
 - **Military missions**
- The eASM **XSD schemas** are generated in compliance with the **AIXM 5.1 UML to XSD mapping guidelines**



eASM extension



AIXM 5 Implementations

- Digital NOTAM
- Digital NOTAM / SNOWTAM trials
- EAD: European Aeronautical Database

Digital NOTAM



Current NOTAM

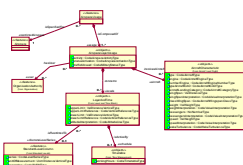
(A2018/07 NOTAMN)
 Q) EGPX/QMRLC/IV/NBO/A /000/999/5439N00613W005
 A) EGAA B) 0709011344 C) 0709011344
 E) RWY 07/25 WITHDRAWN FM SER DUE TO ESSENTIAL MAINT.
 BOTH RWY CAN BE MADE AVBL TO FULL OPR CRITERIA WITH 30MIN PPR.
 WIP WILL BE SUSPENDED WHEN THE CLOUD CEILING FALLS TO OR BLW 600FT
 OR VIS FALLS TO OR BLW 5000M.)

“A **notice** *distributed by means of telecommunication* containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential **to personnel** concerned with flight operations.”

Digital NOTAM

```
<AircraftTypeTimeSlice gnd="VID014">
  <gnd_valTime>
    <interpretation>TEMPORARY</interpretation>
    <sequenceNumber>1</sequenceNumber>
    <isComposedOf>
      <AircraftTypeTimeSlice>
        <activity>MAINT</activity>
        <statusActivation>ACTIVE</statusActivation>
      </AircraftTypeTimeSlice>
    </isComposedOf>
    <isConcurrent>
      <isConcurrentTimeBlock>
        <upperLimit>sum="FL:95</upperLimit>
        <upperLimitReference>STR</upperLimitReference>
        <lowerLimit>sum="FT:4500</lowerLimit>
        <lowerLimitReference>MSL</lowerLimitReference>
      </isConcurrentTimeBlock>
    </isConcurrentTimeBlock>
    <isActiveBy>
      <TimeSlice>
        <isComposedOf>
          <TimeSlice>
            <timeReference>MTC</timeReference>
            <startDate>24-07</startDate>
            <endDate>24-07</endDate>
            <dayMonthYear>
              <startTimes>09:00</startTimes>
            </dayMonthYear>
          </TimeSlice>
        </isComposedOf>
      </TimeSlice>
    </isActiveBy>
  </AircraftTypeTimeSlice>
</AircraftTypeTimeSlice>
```

“A **data set** *made available through digital services* containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential **to systems and automated equipment used by personnel** concerned with flight operations.”



Requires data models!

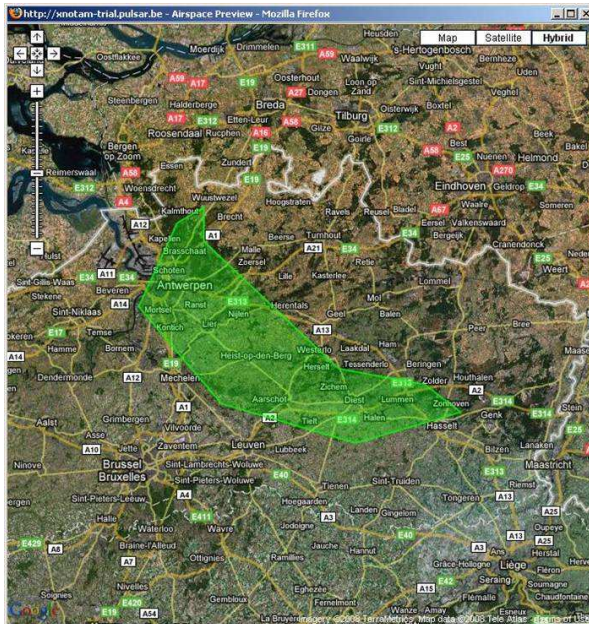


```
<event:Event xsi:schemaLocation="http://www.aixm.aero/schema/5.0/event/0.1 http://www.aixm.aero/schema/5.0/extensions/eur/uaa/FUA_Features.xsd" gml:id="Event-0003">
  <event:name>ESSA runways closed</event:name>
  - <event:description>
    RWY 08/26, 01L/19R, 01R/19L closed temporarily due to snow contamination and bad we
  </event:description>
  <event:type>TEMPORARY</event:type>
  - <event:hasMember>
    - <aixm:AirportHelicopterUsage gml:id="VID2678448">
      <gml:identifier codeSpace="http://www.eurocontrol.int/xnotam">0cfbd1ea-bf3
    - <aixm:timeSlice>
      - <aixm:AirportHelicopterUsageTimeSlice gml:id="VID2678449">
        - <gml:validTime>
          - <gml:TimeInstant gml:id="VID000002">
            <gml:timePosition>2009-02-12T07:00:00</gml:timePosition>
          </gml:TimeInstant>
        </gml:validTime>
        <aixm:interpretation>PERMDELTA</aixm:interpretation>
        <aixm:sequenceNumber>1</aixm:sequenceNumber>
        <aixm:correctionNumber>0</aixm:correctionNumber>
      - <aixm:featureLifetime>
        - <gml:TimePeriod gml:id="VID000001">
          <gml:beginPosition>2009-02-12T07:00:00</gml:beginPosition>
          <gml:endPosition indeterminatePosition="unknown"/>
        </gml:TimePeriod>
      </aixm:featureLifetime>
    - <aixm:limitation>
      - <aixm:AirportHelicopterUsageLimitation>
        <aixm:type>FORBID</aixm:type>
      - <aixm:condition>
        - <aixm:AirportHelicopterUsageCondition>
          - <aixm:flight>
            - <aixm:FlightCharacteristic>
              <aixm:rule>ALL</aixm:rule>
            </aixm:FlightCharacteristic>
          </aixm:flight>
        - <aixm:operation>
          - <aixm:AirportHelicopterOperation>
            <aixm:type>TAKEOFF</aixm:type>
          </aixm:AirportHelicopterOperation>
```

Digital NOTAM Sample

```
- <aixm:operation>
  - <aixm:AirportHelicopterOperation>
    <aixm:type>LANDING</aixm:type>
  </aixm:AirportHelicopterOperation>
</aixm:operation>
</aixm:AirportHelicopterUsageCondition>
</aixm:condition>
</aixm:AirportHelicopterUsageLimitation>
</aixm:limitation>
<aixm:affectedRunwayDirection xlink:href="http://www.eurocontrol.int/xnotam#xpointer(//aixm:RunwayDirection[gml:identifier='75a95f14-bc8c-4335-9851-6f7a7e766d1a'])"
xlink:title="//aixm:RunwayDirection//aixm:designator='08' and //aixm:AirportHelicopter//aixm:designator='ESSA'"/>
<aixm:affectedRunwayDirection xlink:href="http://www.eurocontrol.int/xnotam#xpointer(//aixm:RunwayDirection[gml:identifier='8365187a-6784-441a-b071-13b156dd2676'])"
xlink:title="//aixm:RunwayDirection//aixm:designator='26' and //aixm:AirportHelicopter//aixm:designator='ESSA'"/>
<aixm:affectedRunwayDirection xlink:href="http://www.eurocontrol.int/xnotam#xpointer(//aixm:RunwayDirection[gml:identifier='b233f3f5-f35a-4283-92b3-751a86733bee'])"
xlink:title="//aixm:RunwayDirection//aixm:designator='01L' and //aixm:AirportHelicopter//aixm:designator='ESSA'"/>
<aixm:affectedRunwayDirection xlink:href="http://www.eurocontrol.int/xnotam#xpointer(//aixm:RunwayDirection[gml:identifier='5dbbe744-da20-49df-8ca3-940202d59001'])"
xlink:title="//aixm:RunwayDirection//aixm:designator='19R' and //aixm:AirportHelicopter//aixm:designator='ESSA'"/>
<aixm:affectedRunwayDirection xlink:href="http://www.eurocontrol.int/xnotam#xpointer(//aixm:RunwayDirection[gml:identifier='e91cc17a-45cb-4b4c-aae0-2215945bab2c'])"
xlink:title="//aixm:RunwayDirection//aixm:designator='01R' and //aixm:AirportHelicopter//aixm:designator='ESSA'"/>
<aixm:affectedRunwayDirection xlink:href="http://www.eurocontrol.int/xnotam#xpointer(//aixm:RunwayDirection[gml:identifier='a1861926-17fc-4e12-a3c6-02381af8f67f'])"
xlink:title="//aixm:RunwayDirection//aixm:designator='19L' and //aixm:AirportHelicopter//aixm:designator='ESSA'"/>
</aixm:AirportHelicopterUsageTimeSlice>
</aixm:timeSlice>
```

What you can do with Digital NOTAM



Tools Help

Search Favorites Media

PRE-FLIGHT INFORMATION BULLETIN

CEST 2003 TO: Thu Dec 04 22:34:00 CET 2003

FLIGHT RULES: VFR IFR

PURPOSE: ALL

SELECTED FEATURES: AERODROME/HELIPAD, OBSTACLE, DME PARKING AREA, NDB, RUNWAY, TAXIWAY, VOR

- AERODROME EHAM FROM 2003-07-11 11:00:00 TO 2003-07-11 11:00:00
- BIRD CONCERN FROM 2003-07-11 11:00:00 TO 2003-07-11 11:00:00
- RUNWAY 07L/25R FROM 2003-06-09T12:00:00 EST TO 2003-06-09T12:00:00 EST
- TAXIWAY 07L FROM 2003-06-09T12:00:00 EST TO 2003-06-09T12:00:00 EST
- TWY OUT OF SERVICE ACFT HEAVIER THAN 19000 KGS FROM 2003-06-09T12:00:00 EST TO 2003-06-17T03:00:00 EST
- NDB CH 5211314.22N 0043327.36E



Manual workload

Data quality

Digital NOTAM – Europe Roadmap

- **2012 – 2014**
 - ECAC States provide Digital NOTAM increment 1
 - Service providers and end users gradually use digital NOTAM on the ground
- **2015 – 2018**
 - ECAC States provide Digital NOTAM increment 2
 - Service providers and end users use digital NOTAM on the ground and gradually in the air
- The AI Team supports 2012 as start date
- Proposed date (2014) for full operational capability for Increment 1 in ECAC is still **TBC**



Digital NOTAM Trial - 2008



- Organised between February and June 2008 to demonstrate the **maturity** of the “**digital NOTAM**” concept
- Based on **AIXM 5 Release Candidate 2**
- Objectives:
 - Validate AIXM 5
 - Provide a proof of concept for a “digital NOTAM encoding application”
 - Provide a significant amount of test xNOTAM data

Airspace Permanent Change

Effective Time Instant

Start date and time: 2008/02/07 13:1

Airspace Geometry Time Table

Shape:

Latitude

510251N

510057N

505731N

505342N

505830N

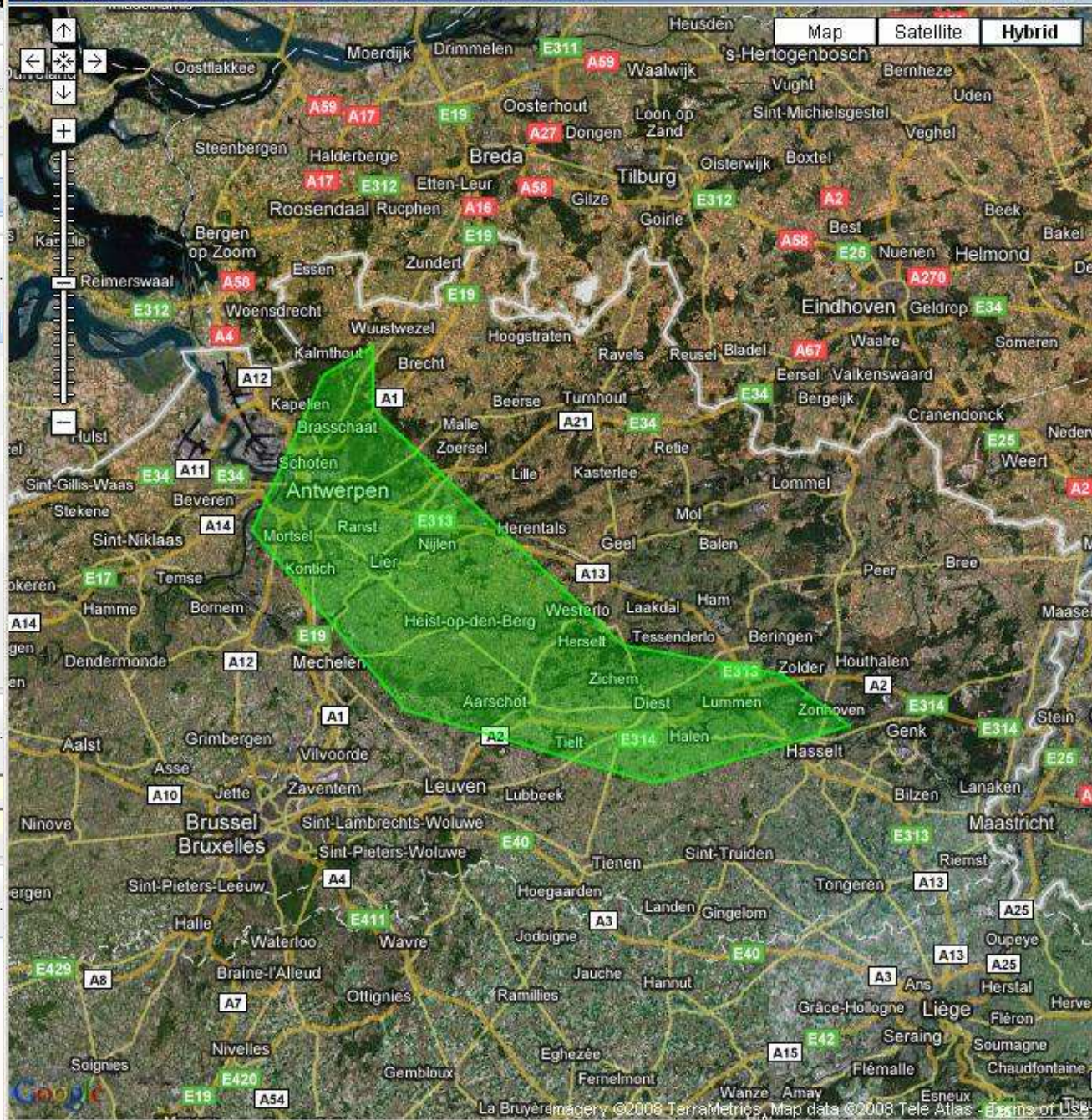
511032N

Vertical limits:

Upper Limit: UNL

Lower Limit: 195

Aggregate:



- Lessons learned:
 - **AIXM 5.0** model was sufficiently **mature** to support the Digital NOTAM concept.
 - Identified some **modelling deficiencies, corrected in AIXM 5.1** (e.g. the “Usage” concept)
 - Demonstrated that with a **relatively small investment** (200 k€) it is possible to develop a basic HMI that can be successfully used by today’s NOTAM operators to provide the desired Digital NOTAM output

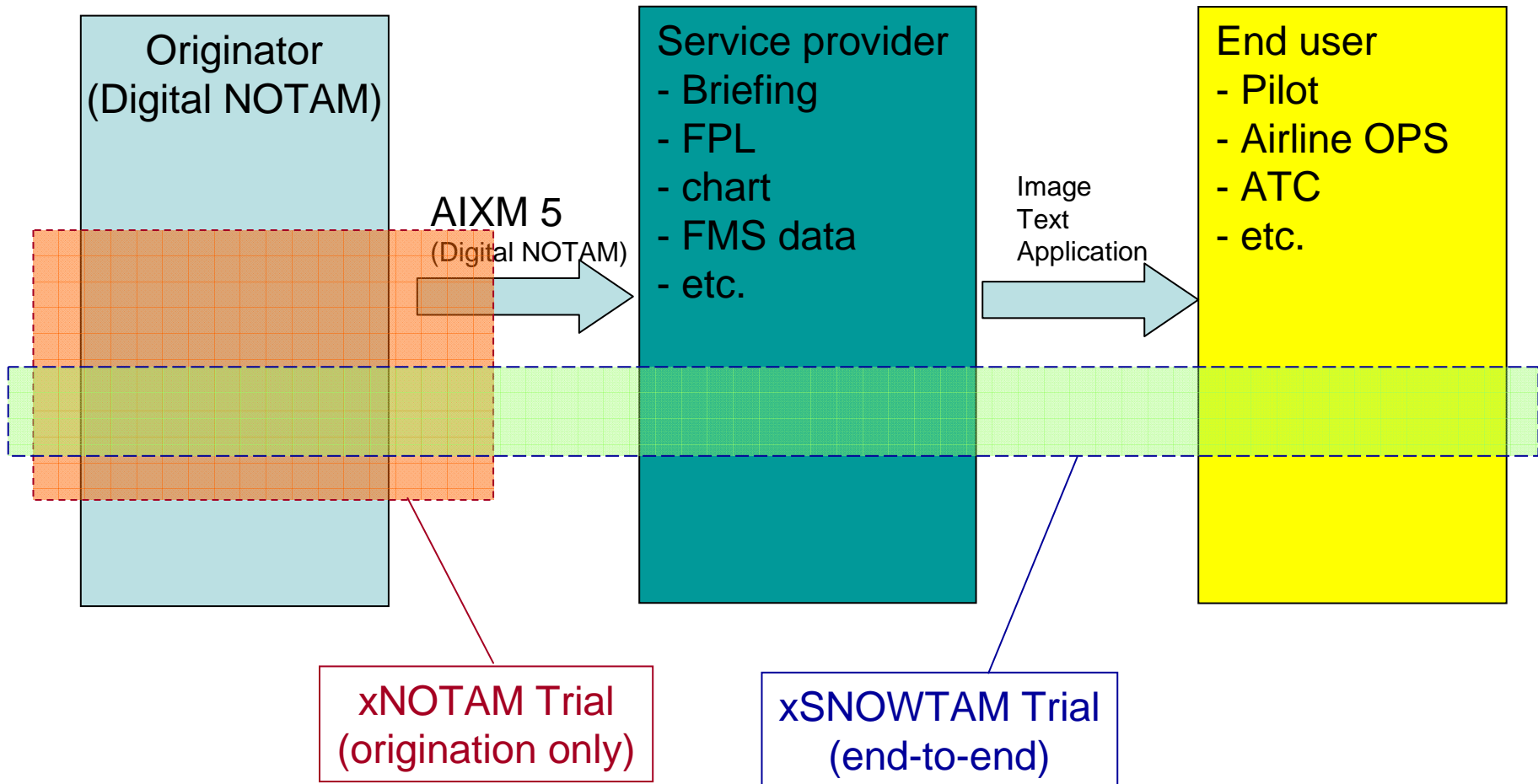


Digital SNOWTAM Trial 2009-2010



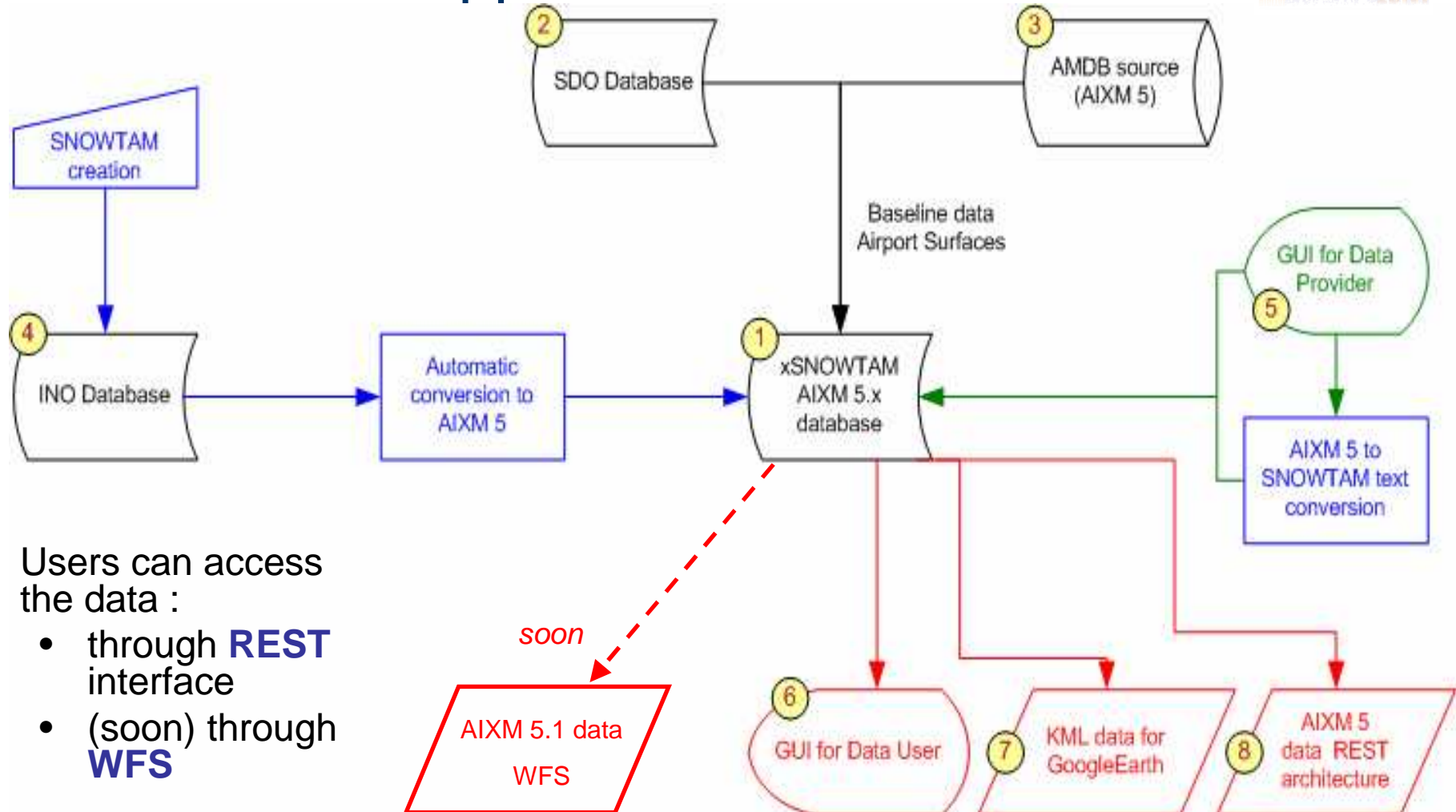
- The **Digital SNOWTAM Trial** was launched in November 2009 and will run until March 2010.
- Objectives
 - Demonstrate xNOTAM benefits to end users -> Airlines
 - Verification of the AIXM 5.1 Surface Contamination model
 - Continue the testing of Web service standards
 - REST architecture
 - Start work on algorithms and open source code
 - structured SNOWTAM text to AIXM 5.1
 - AIXM 5.1 to SNOWTAM text

Digital SNOWTAM Trial - Scope



Participants: 10 NOTAM offices, Airlines, Airports, System developers

Trial – Application architecture



- Users can access the data :
 - through **REST** interface
 - (soon) through **WFS**

soon
AIXM 5.1 data
WFS

If you want to participate in the trial, please contact us !

http://www.eurocontrol.int/aim/public/standard_page/xnotam_trials.html

EUROCONTROL's Digital SNOWTAM Trial

Airport Overview Find Airports Manage Rejected SNOWTAMS Administration Quick search: Provider: **Eduard POROSIUCU** @ Airline

ESSP/NORRKOPING/KUNGSANGEN

Map Satellite Hybrid Terrain

Filters
 UTC Date/Time: 2009-10-28 15:30
 Now
 Dataset: EAD Local
 Apply Filters

Airport: ESSP
 Aprons: ASPH, BAM, SOUTH
 Runways: 09/27, 11/29
 Taxiways: B, C, D
 Aircraft Stands

Edit surface contamination of Runway 09/27

Whole Runway

Contamination	Third 1	Third 2	Third 3
Deposits:	FROST	DRY SNOW	FROST
Mean depth:	MM	MM	MM
Friction coefficient *:	4 (Est.: MEDIUM GOOD)	3 (Est.: MEDIUM)	4 (Est.: MEDIUM GOOD)
Friction device:	(same device for the three thirds)		

Cleared surface

Cleared length: M
 Cleared width: M
 Cleared Side:
 Distance:
 From: threshold

Further clearance

Further clearance: Is total?
 Further clearance length: M
 Further clearance width:
 Further clearance time:

Critical snow banks

Present:
 Distance:
 Depth:
 Side:
 Obscured lights:
 Observation time: 15:33

Remark:

OK Cancel

Map 1000 ft 200 m

KML SNOWTAM Text

Powered by Pulsar

EAD - European AIS Database

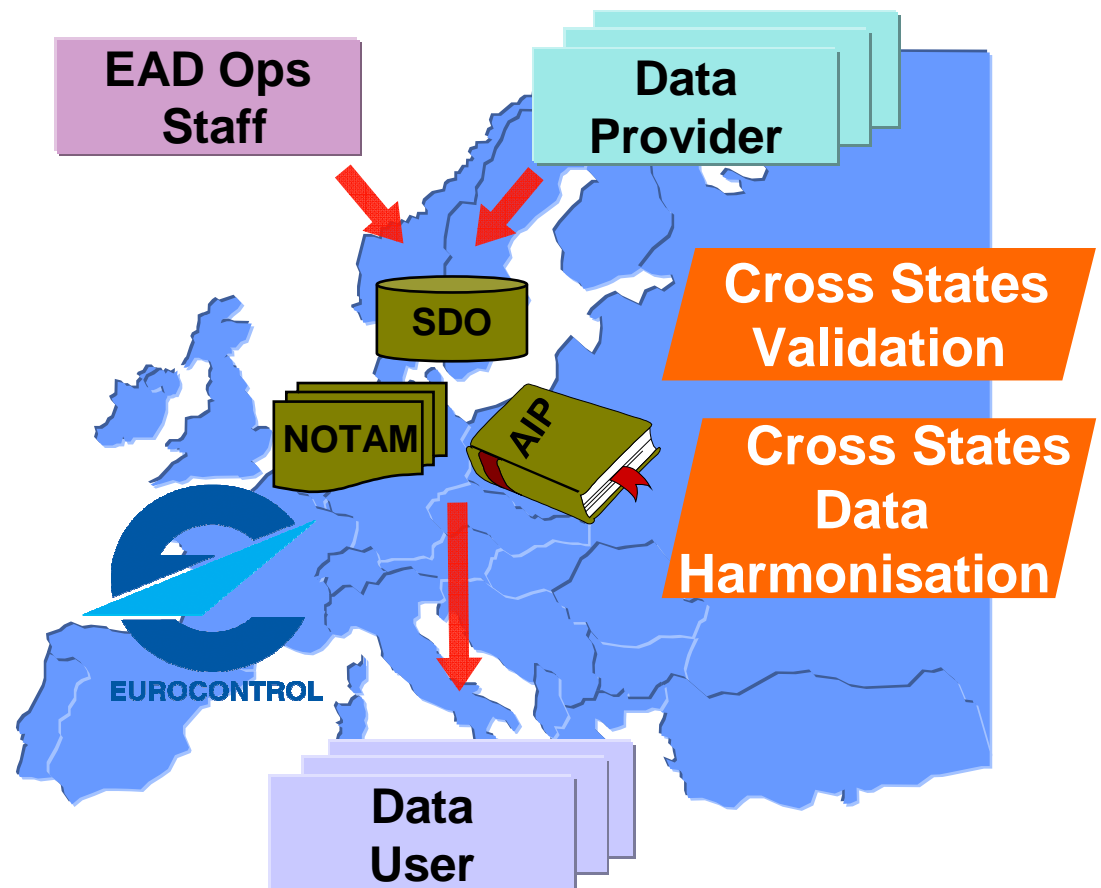
- **EAD** is a service provided and owned by EUROCONTROL on behalf of its Member States.

Data Providers (Civil & Mil)

- Civil Aviation Authorities
- Air Navigation Service Providers
- EUROCONTROL/CFMU

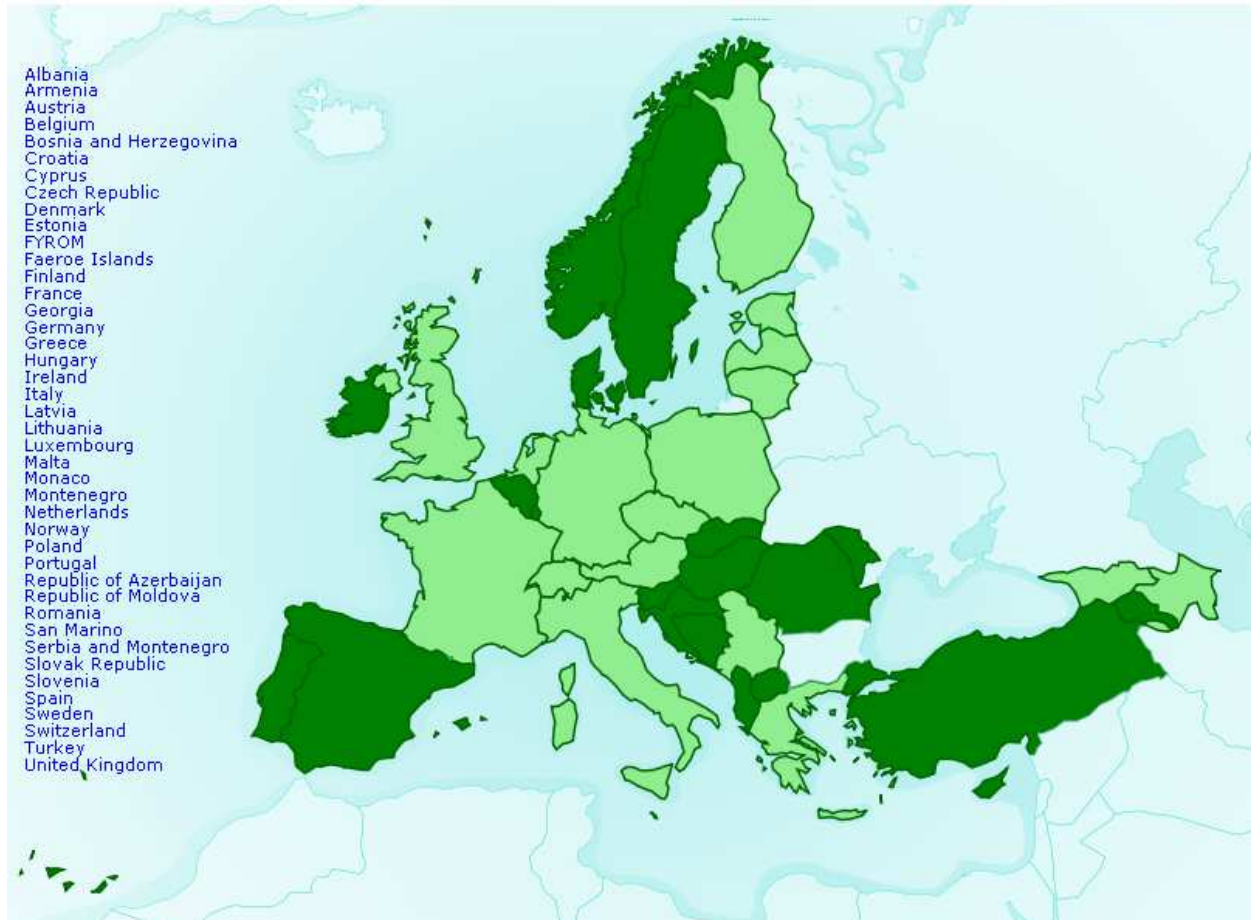
Data Users

- Aircraft Operators
- Commercial Users
- Private Pilots
- ATC
- General Public



EAD - European AIS Database

- **23 Data Providers fully migrated to the EAD**
- **19 Data Providers committed to migrate**





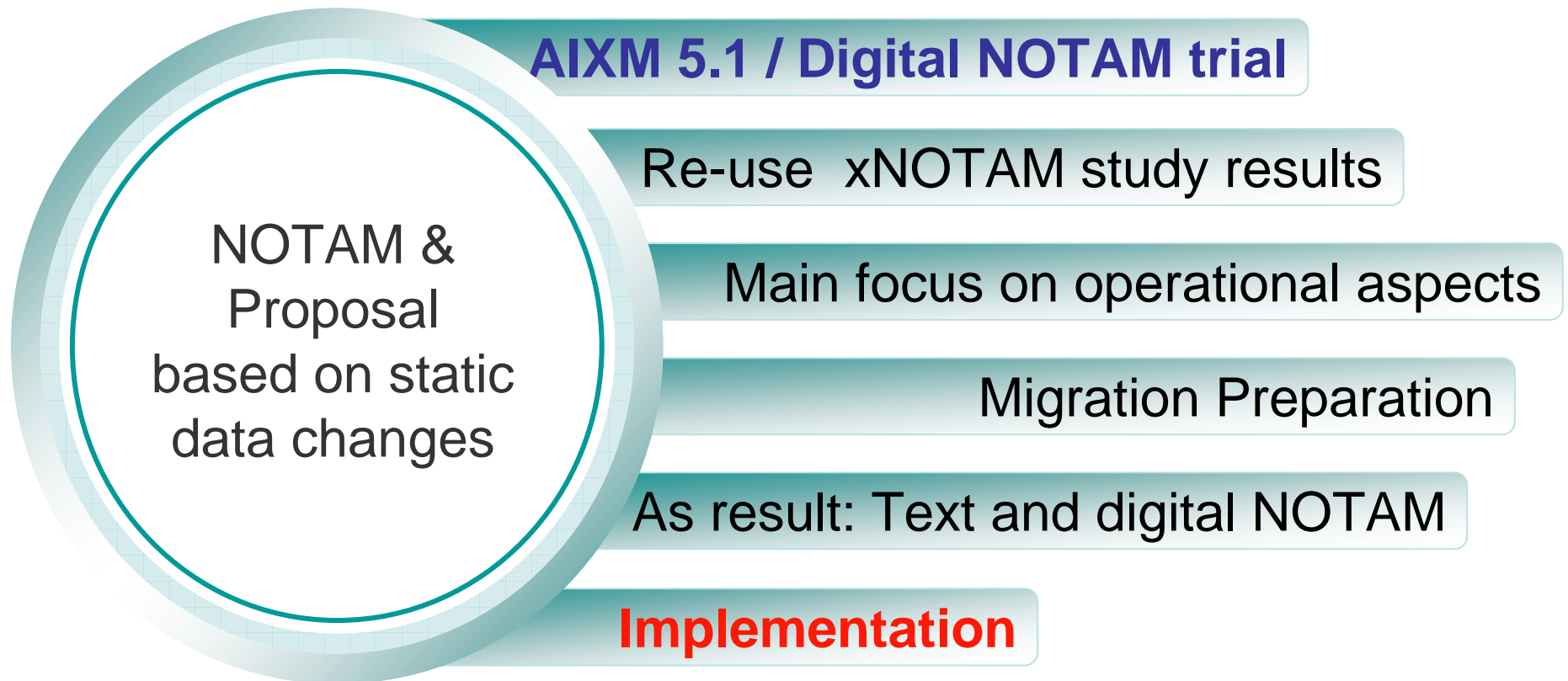
EAD - European AIS Database

- **SDO** - Static Data Operation
 - Central repository of validated specific world wide AIP data and complete ECAC AIP data
- **Coverage:**
 - **ECAC area:** Full set of aeronautical information data published in AIP
 - **Worldwide:** Minimum set of static data required for NOTAM validation and Pre-flight Information Bulletin generation
- **SDO** implements **AIXM 4.5**
- **EAD** will progressively move towards **AIXM 5.1**, mainly to **support Digital NOTAM**

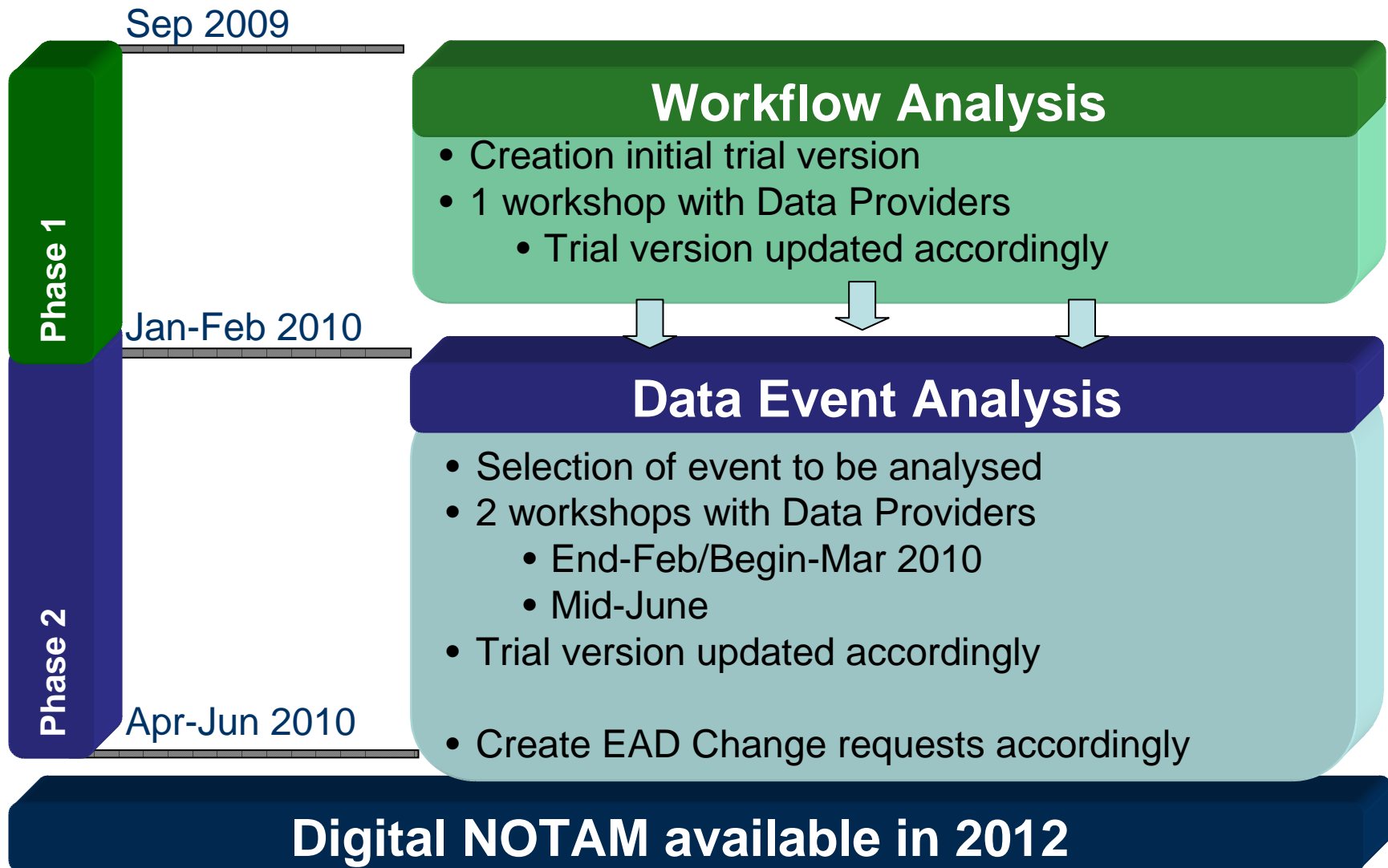
EAD – Implementation of AIXM 5.1

- SDO **Obstacle** concept will be updated to be compliant with **AIXM 5.1**
 - Spring 2010
- Full implementation of the AIXM 5.1 **Temporality** model - supports the following timeslice types:
 - BASELINE
 - PERMDELTA
 - SNAPSHOT
 - TEMPDELTA (preparatory work for the future Digital NOTAM).
- Next step: NAVAIDS and Designated Points, based on the ADR requirements and the harmonisation with the CFMU Environment system (**eASM** ...)

EAD - Digital NOTAM



EAD Digital NOTAM Trial - Timetable



EAD NOTAM Wizard

EAD Digital NOTAM Trial

LOGOUT
 e1_DemoUser (DATA_PROVIDER)

Area of Responsibility

- Data
- Air-/Heliport(s)
 - EBBR
 - Address(es)
 - Runway(s)
 - ...add new
 - 02/20
 - 07L/25R
 - 07R/25L
 - Taxiway(s)
 - Air-/Heliport Usage(s)
 - FATO(s)
 - TLOF(s)
 - Ground Service(s)
 - Fuel
 - Oil
 - Passenger Facilities
 - Apron(s)
 - Timetable

Map View

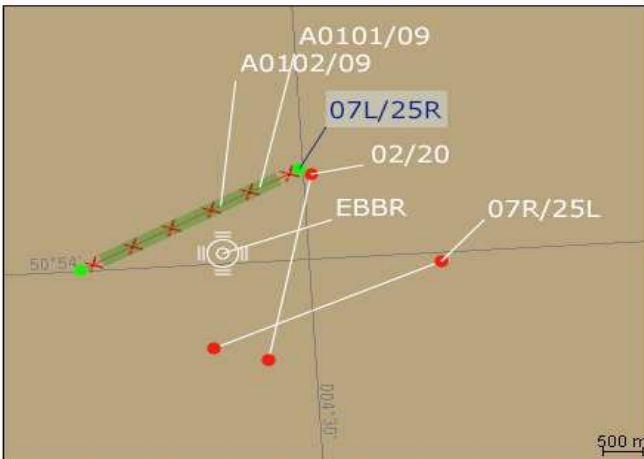
Data Event

Schedule

Review NOTAM Text

Notes

Review



Show Selection
 Show Related
 Standard
 Satellite

NOTAM List

Identifier	Condition	Designator	Type	Airport	Start Validity	End Validity
A0101/09	Usable length/width	07L/25R	N	EBBR	2009-11-18 18:00	2009-11-20 12:30
A0102/09	Closure	07L/25R	N	EBBR	2009-11-22 04:25	2009-11-23 08:45

NOTAM Text Distribution List

International National XML

Questions ?

