

Aeronautical Information Management



Aeronautical, Weather and Flight Data in the Cloud

Our Mission

Our mission is to help aviation stakeholders to access, consume and share global aviation data.

- On-premise and cloud-based software solutions
- Research & Development (OGC, SESAR, NextGen)
- OGC Testbed 12 participant (2016)



Aviation Cloud

Aeronautical, weather, flight and other data in the Aviation Cloud:

- **Import:** from NM, EAD, FAA, private users
- **Management:** create, read, update, delete
- **Processing:** validate, associate, analyse, enrich/aggregate
- **Provision:** SWIM API, alternative APIs

Network Manager Gateway

- On-Premise or cloud-based application
- NM Notification Service (AMQP) client
- NM Subscription Management
- Deliver enhanced **NM data sets via WFS-TE API**

Data Validation

- Validation of data imported and enriched in order to verify their consistency.
- Validation of documents the authorized users wants to sent to the NM (flight plan)!
- **Validation service:**
 - Validates all kinds of aviation XML documents
 - Syntactical and semantic validation
 - Additional business rules
 - Custom, application based validation rules can be specified (for example flight plan documents)

Data Validation

Aviation Data Validation Platform

Supports AIXM 5.1 Schema & Business Rules, AFX, AMXM, FIXM, WFS, WPS, SOAP

Validator | Configuration | Documentation
Premium Login | User: Guest | Max. upload size: 50 KIB
Beta Version | Evaluate Login

Browse... | Demo | Format XML
Syntax highlighting:
Profile: AIXM Schemas, Containers, EAD Business Rules

Validate

✔ Well-formed.
 ✘ Has schema issues.
 ✘ Has rules issues.

```

25 </aixm:featureLifetime>
26 <aixm:type>TSA</aixm:type>
27 <aixm:designator>EBTSA26A</aixm:designator>
28 <aixm:name>TSA ARDENNES 01</aixm:name>
29 <aixm:designatorICAO>NO</aixm:designatorICAO>
30 <aixm:controlType>MIL</aixm:controlType>
31 <aixm:geometryComponent>
32 <aixm:AirspaceGeometryComponent gml:id="A-c6211807">
33 <aixm:theAirspaceVolume>
34 <aixm:AirspaceVolume gml:id="A-cd610fd4">
35 <aixm:upperLimit uom="FL">999</aixm:upperLimit>
36 <aixm:upperLimitReference>STD</aixm:upperLimitReference>
37 <aixm:lowerLimit uom="FL">95</aixm:lowerLimit>
38 <aixm:lowerLimitReference>STD</aixm:lowerLimitReference>
39 <aixm:horizontalProjection>
40 <aixm:Surface gml:id="VID000004" srsName="urn:ogc:def:crs:OGC:1.3:CRS84">
41 <gml:polygonPatches>
42 <gml:PolygonPatch>
43 <gml:exterior>
44 <gml:LinearRing>
45 <gml:pos>4.12861111 50.55611111</gml:pos>
46 <gml:pos>4.59166667 50.64</gml:pos>
47 <gml:pos>4.84305556 50.58916667</gml:pos>
48 <gml:pos>5.71 50.02222222</gml:pos>

```

Validator Details

Line: 40

Severity

Error

Name

AIXM-5.1_RULE-1A3ED6

SBVR

Each Surface shall not have descendant LinearRing

Location

(/)[*][32]

Report

Summary | Well-formedness | XML Schema | **Business Rules** | Raw

Hide this rule | Hidden: | Clear filters

Line	Severity	Name	SBVR	Location
40	Warning	AIXM-5.1_RULE-3E8	Each assigned srsName value shall be equal-to 'urn:ogc:def:crs:EPSG::4326'	(/)[*][32]
40	Error	AIXM-5.1_RULE-1A3ED6	Each Surface shall not have descendant LinearRing	(/)[*][32]



Thank you for your attention, any questions?



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