

Enabling Information Sharing thru Common Services

AIXM Viewer

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

August 30, 2011 - September 1, 2011
NOAA Science Center & Auditorium
Silver Spring, Maryland

Introduction



AIXM 5 Viewer

- The standard viewer to visualize AIXM 5.0 and AIXM 5.1 data
- Developed by Luciad for the Federal Aviation Administration (FAA)

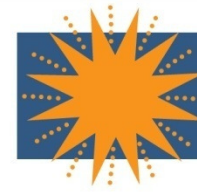


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Agenda



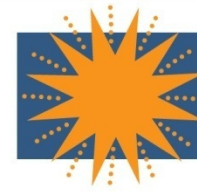
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- Background on AIXM 5
- Luciad's support for AIXM 5
- AIXM 5 Viewer Overview
- Demonstration
- Instructions on how to get the tool



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AIXM 5 Data Format



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- **Global standard for international exchange**
- **Built on internationally agreed standards**
 - UML
 - GML 3.2
 - ISO Standards, including Metadata
- **AIXM 5 Complexity**
 - 3000+ Schema elements
 - Xpath / Xlink resolution
 - Temporality
 - Extensions



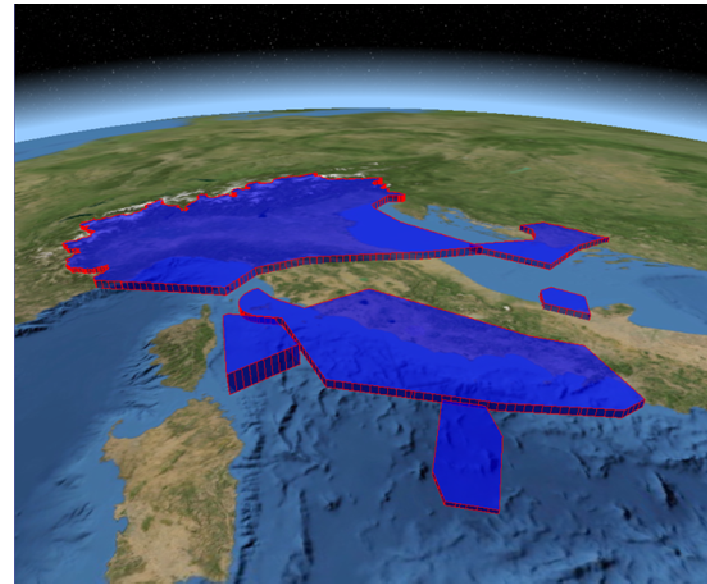
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Luciad AIXM 5 Implementation



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- Supported the FAA and Eurocontrol since day one for AIXM
- Allow easy development of applications using the full power of AIXM 5
 - Take most of the complexity
 - Leave in flexibility



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LuciadMap AIXM 5 Capabilities



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- **Full AIXM 5.0 & AIXM 5.1 support**
- **Round trip decoding, editing, encoding**
- **Fully integrated in LuciadMap software**
 - Easy to program application on top of API
 - Integrates with 2D, 3D, Web services, ...
- **High performance**
- **Visualization according to ICAO symbology**
- **Full temporality support (NOTAM, updates)**
- **Support for AIXM 5 extensions**



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AIXM 5 Viewer



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- **Powerful tool to present the full richness and complexity of the AIXM 5 data format**
- **A multi-platform, user friendly AIXM 5 Viewer**
 - Visualize data in 2D & 3D
 - Navigate the properties of any feature
 - Observe changes of a feature over time
 - Compare features side by side
- **Built with LuciadMap and Lucy**



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AIXM 5 Viewer Strengths

- **Usability**
 - Requires little or no training
- **Seamless switch between 2D & 3D**
- **Time filter**
 - Transparent time control slider
- **On-Map components overlap**
 - Layer control, Property-browser , navigation controls
- **Performance**
 - Ability to display large of data
 - Airspaces are complex geometries & transparent



Demonstration - DFW

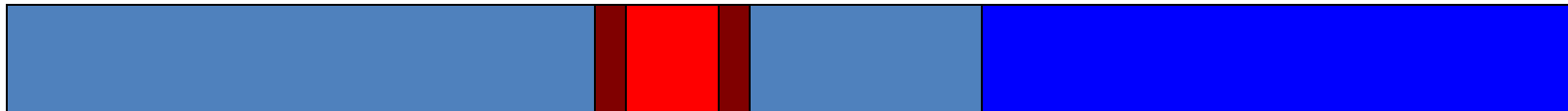
- **AirportHeliport**
 - Runway
 - **RunwayElement**
 - **RunwayCenterlinePoint**
 - RunwayDirection
 - **RunwayBlastPad**
 - Taxiway
 - **TaxiwayElement**
 - Apron
 - **ApronElement**
 - AirportSuppliesService
 - TouchDownLiftOff

Demonstration – Bagdad MOA



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- **Baseline features**
 - **Feb 10, Dec 10**
- **Tempdelta**
 - **Nov 16 1800-2300 Active**
 - **Nov 16 1900-2200 In Use**



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Demonstration – Bagdad MOA



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- **AIXM 5.0**
 - **AirspaceUsage feature**
- **AIXM 5.1**
 - **AirspaceActivation part of Airspace feature**

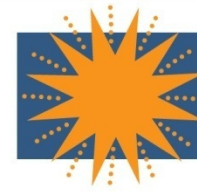


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Demonstration – Features



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- **Geoborder**
- **Referenced airspace**
- **Referenced Airport/Heliport**

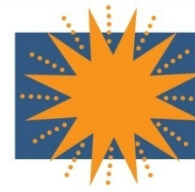


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How to Access the Viewer



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- Finalizing release details
- Web launch
- <http://www.aixm.aero/>



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Summary / Conclusion



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- Powerful tool for AIXM
- Navigate feature properties, xlinks
- Temporality
- Visualizing graphical elements, 2D/3D



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Contact Information



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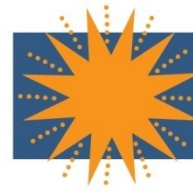
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Questions & Answers / Feedback



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