Luciad

Next generation visualization tools for AIXM 5



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Overview

- · Luciad introduction
- LuciadMap & AIXM 5



About Luciad

- Software product company
 - Software components for ATC/ATM
 - High performance visualization
 - Standards



Who are Luciad customers in ATM?





Luciad Products

LuciadMap

Software platform for ATM application development

- High performance visualization (2D & 3D)
- · Open, object-oriented architecture
- On-the-fly merging of different data sources
- Direct support for Aeronautical Data Standards: ARINC424, AIXM, DAFIF, AMXS, ASTERIX, ASDI-ETMS
- · Terrain and Weather
- Web and SOA enabled
- · High-precision geographical calculation
- Support for mission critical applications



Luciad Products

Standards compliant

- OGC Compliant (WMS, WFS, WCS)
- Support for OGC GML, SLD, Filter specifications
- · Multiple data formats and database support
- · OGC clients, from thin to rich





Luciad Products

ATCPlayback

End user application for analysis and playback of recorded and simulated flights

- · High-performance visualization of ATC fast-time simulations
- Direct support for TAAM, RAMS and SIMMOD
- Intuitive and highly interactive graphical analysis capabilities
- · Graphical reporting capability to stakeholders



Luciad Professional Services

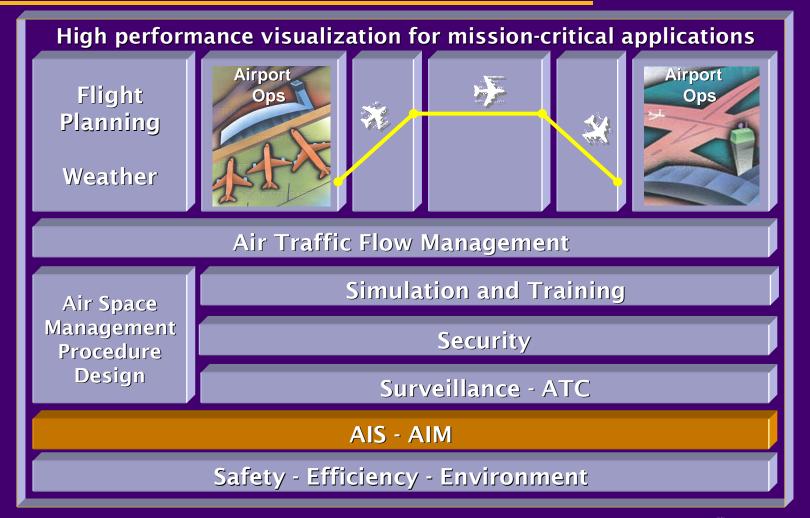
- Consultancy
- Custom software application development
- Training & Coaching



- · Advanced product knowledge
- · ATM Domain expertise
- · Knowledge transfer
- ·On- and Off-site
- Networking
- · Security clearance



Expertise and Strenghts in ATM





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LuciadMap & AIXM 5

- LuciadMap strengths for AIXM 5
 - Standards support
 - **GML** 3
 - · ISO 19115/ISO 19139
 - · XML
 - Knowledge and support for aeronautical formats
 - ARINC 424, DAFIF, AIXM 3.3, AIXM 4.5
 - High performance visualization
 - Dynamic data



LuciadMap AIXM 5 package

- Detailed domain object model
 - Programmatic access to all AIXM 5 features & attributes
 - Generated directly from XML Schema
 - Reuse support for GML 3 & ISO 19115
- · AIXM 5 Decoder
 - Read AIXM 5 baseline files
 - Read updates & NOTAMs (Delta's) on top of baseline
- Visualization
 - ICAO Symbology

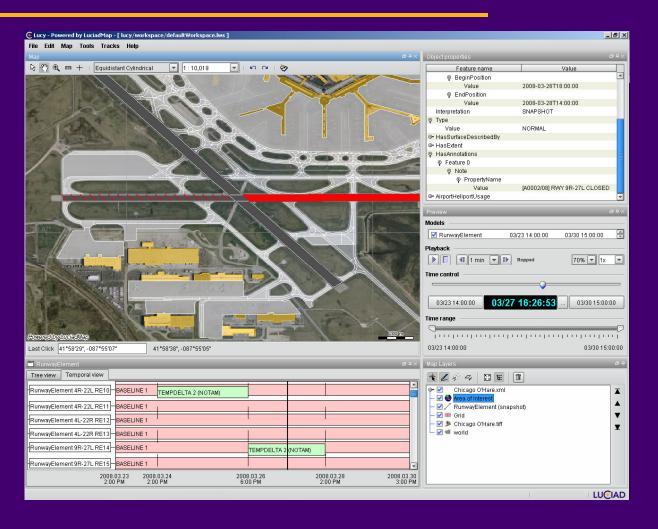


LuciadMap AIXM 5 package

- Temporality
 - Full support for temporality (timeslices)
 - Two types of models
 - · Full model: has all time slices available
 - · Snapshot model: snapshot at a specific time
- Currently supported: AIXM 5 RC 2
 - Eurocontrol Digital NOTAM trials



Demo





LuciadMap AIXM 5 future

- AIXM 5 & LuciadMap
 - Follow closely AIXM 5 evolution
 - Work with customers from early developments up to operational systems
 - Use lessons learned from Digital NOTAM trials, ...

Flexible, high performance AIXM 5 software platform



Questions?

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