

AIXM/WXXM Conference May 04-06 2010, Washington



COMSOFT: Location



COMSOFT GmbH

Wachhausstr. 5a 76227 Karlsruhe Germany

info@comsoft.aero www.comsoft.aero



COMSOFT: Aeronautical Information Management

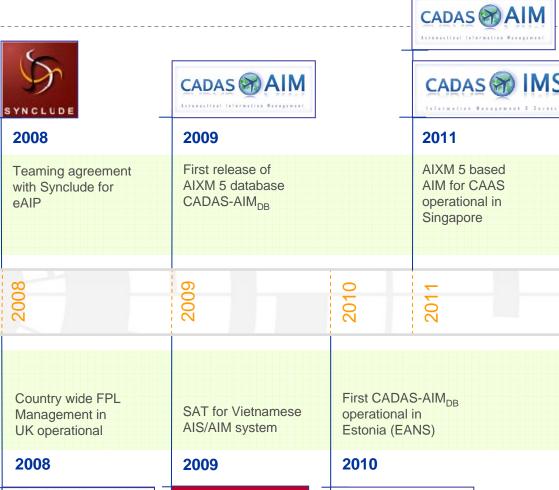


COMSOFT: History of CADAS

CADAS M IMS

2007

Launch of IMS



Launch of CADAS product line (ATS)

2003

2003



9 operational CADAS/AIS installations worldwide

2007









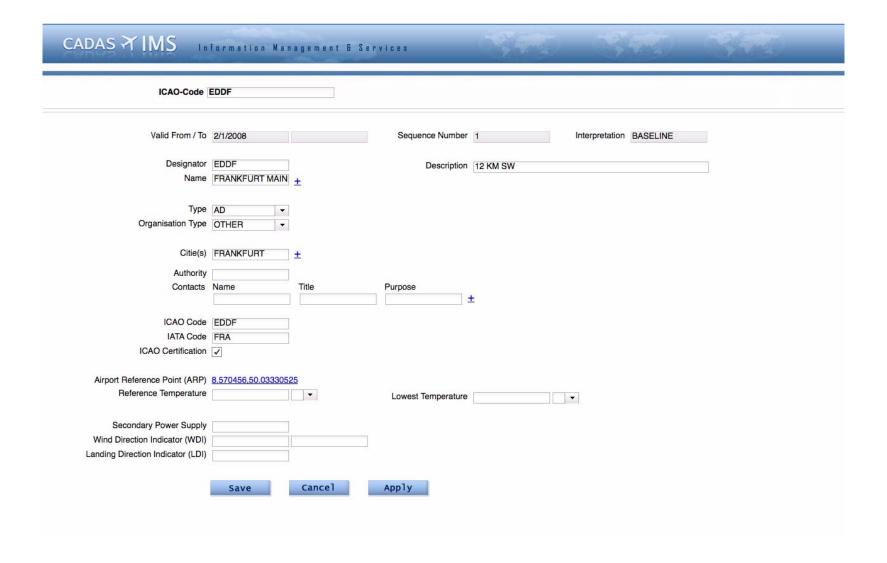
COMSOFT: CADAS-AIM_{DB} Highlights

- Comprehensive AIXM 5.1 database implementation with temporality, etc.
- Market ready solution
- EANS (First operational AIXM 5.1 Database worldwide(?) with eAIP production environment)
- Ongoing AIXM 5.1 projects with ANSPs (Singapore, Estonia, Oman, Qatar)
- Ongoing AIXM 5.1 collaborations with value-adding companies
- System Interface CAW (COMSOFT AIXM 5 Web-Service), a superset of WFS-T 2.0
- CABS (COMSOFT AIXM 5 Broker Subsystem) with AIXM 5 Java-API for easy integration into other products
- AIXM 4.5/AIXM 5.1 mapping



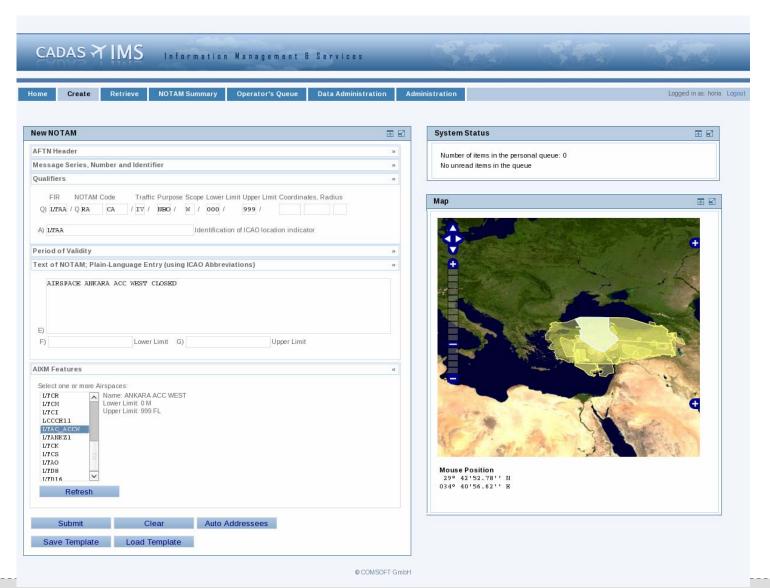


COMSOFT: AIXM Data Front-End





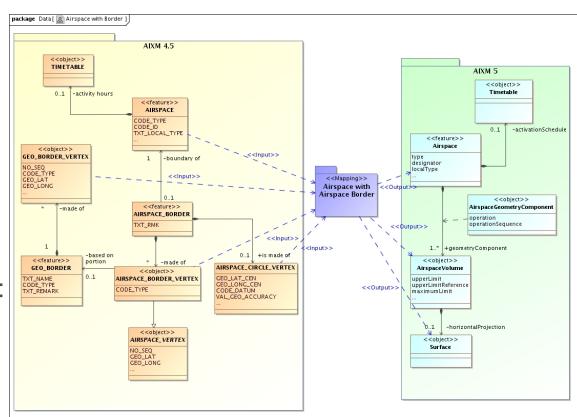
COMSOFT: Digital NOTAM Front-End





COMSOFT: Data Conversion Support

- ATL (AIXM 5 Translation Language)
 - Mapping from/to AIXM 5
 - Data fusion and splitting
 - Re-fetching of data
- Current exchange formats:
 - AIXM 5 (native)
 - AIXM 4.5 (translated)





COMSOFT: Contribution to OWS-7

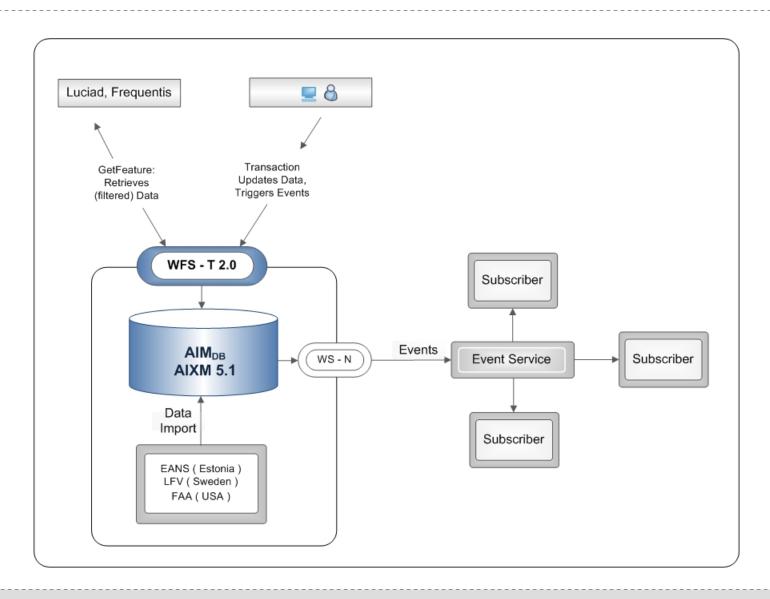
- COMSOFT's AIXM 5 database CADAS-AIM_{DB}
 - WFS-T 2.0 implementation, a subset of CADAS-AIM_{DB}'s native Web-Service interface CAW
 - Web Service Notification Interface for digital NOTAM events
- Complete Estonian AIP data set
- Conversion of AIXM 4.5 data into AIXM 5.1







COMSOFT's AIXM 5.1 Datastore CADAS-AIM_{DB}



COMSOFT: OWS-7 Issues with AIXM / WFS

- WFS 2.0 Specification is only partly suitable for temporal model in AIXM
 - The main entities dealt with are time slices, not features
 - There are two options:
 - The features offered by the WFS are the features in AIXM
 - The features offered by the WFS are the time slices in AIXM
- Requirement of gml:id to be unique for a feature complicates server and client implementation
 - Using a GetFeature request with multiple queries, the response may contain the same feature multiple times
- Exception Reporting: a place for warnings
 - Either all requested operations are completely successful or they fail at all
- WFS filters tend to become complex

