

MIDAD DETAILED STUDY INPUT

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→ MIDAD Elements (to be addressed by Detailed Study)

- → MIDAD legal entity (entities) The MIDAD project, development, implementation, operation, processes, harmonisation between states and so on, must be handled by a specific (legal) entity

 This element will not be defined in the Detailed Study but is a key prerequisite
- → Technical AIM Platform The technical base to run the AIM services. Network, hardware, software applications
- → AIM Platform continuous maintenance As the Technical AIM Platform is a mission critical element permanent services has to be guaranteed
- AIM platform/system operation The network and AIM platform has to be operated by a proper entity
- Data Migration support An centralised entity which supports Data Migration should be element of the MIDAD project
- → Migration services The process to "migrate" existing data, application, processes on the MIDAD platform must be supported



→ MIDAD Elements (to be addressed by Detailed Study)

- → Training An entity to provide training services within for MIDAD participants has to be defined
- → Operational Support Frequentis offers initial support in the phase from acceptance to cut-over and beyond
- → 24/7 Helpdesk services must be available for MIDAD
- → Error/Incident Reporting and Change Management platform MIDAD needs a centralised online platform for it's participants/customers for incident and error management as well as for change management
- → Standards / Safety Cases The MIDAD entity has to ensure that Standards, Safety Cases, Data Quality is ensured. A safety engineering competency centre could support that



→ MIDAD Elements (to be addressed by Detailed Study)

- → Integration between large AIM data repositories The detailed study should also address if and how MIDAD would be connected with other large regional AIM data repositories (like EAD, CAD/ATNS, FAA and so on)
- → Integration of systems of different suppliers MIDAD must provide a concept to integrate existing AIM solutions. Statements like:
 - these systems are integrated by up-/downloading AIXM data
 - the databases will be automatically synchronised

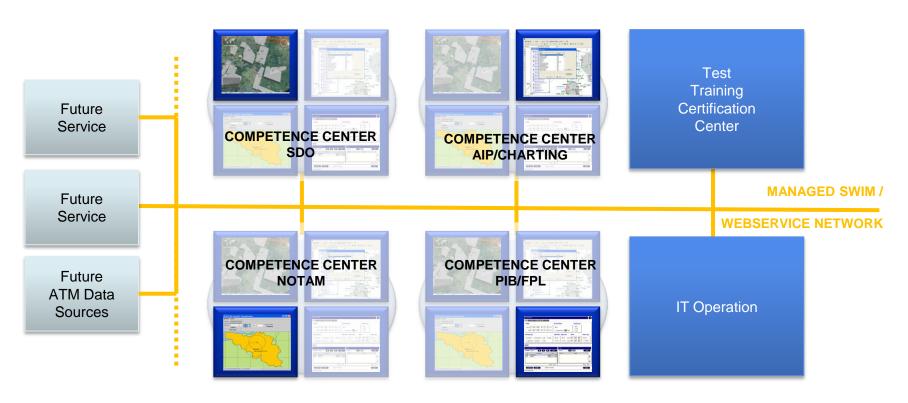
are not satisfying as there are different implementation concepts e.g. for temporary data

The use of SWIM adapters should be investigated



→ MIDAD Topology

Centers of Competence within a managed Network





→ MIDAD Topology

- Centers of Competence The MIDAD Framework should have the capability that the services required within the Framework can be provided by different organisations/countries. E.g. one Centre of Competency delivers charting services for MIDAD, another Centre of Competency provides Training Services.
- → All Centres of Competence are connected via a Managed SWIM/Webservices Network



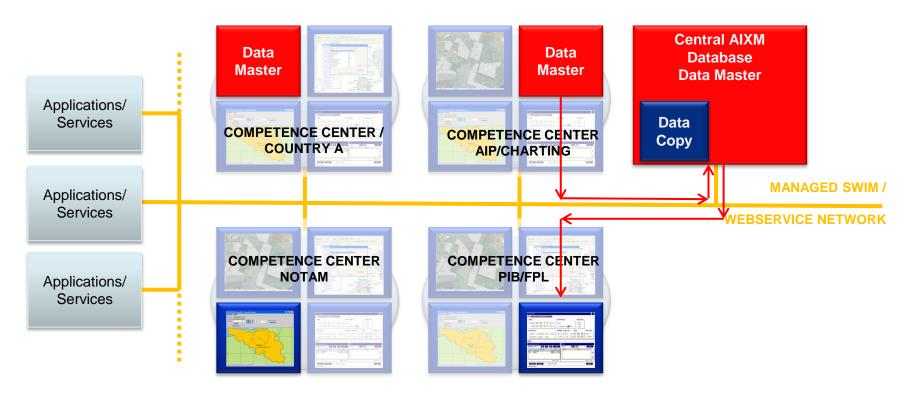
→ Advantages

- → Establish local expertise for net-wide specialist service delivery
- → Auto-Sync between the server systems acting as emergency hotstandby systems
- Open SWIM/Web-Service architecture that can be further extended by additional services in the future
- → Use existing local installation via data upload and download mechanisms – local decision whether to use local, centralised or mixed functionality
- → Connect to EAD and other regional AIXM Data Repositories to access and share AIM data automatically on a global basis.



→ Database Topology: Logically Centralised or Centralised

Centers of Excellence within a managed Network





→ Integration in Global Cloud

- A concept in which the location of servers / data sources is no longer important
- Organisations can concentrate on their key competencies and don't have to think about technology so much
- SWIM and SOA are related to the concept of cloud computing
 - it does not matter WHERE the hardware is located, only WHAT information is provided and in WHICH quality

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→ Main Benefits

- Reduction of data backup cost
- Reduction of recovery cost
- Cost sharing due to regional concepts
- Enabling sales of services for ANSPs

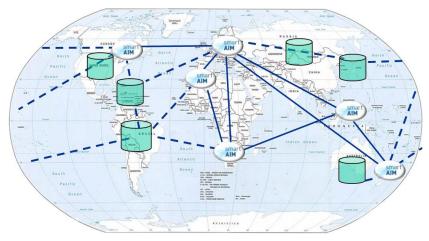
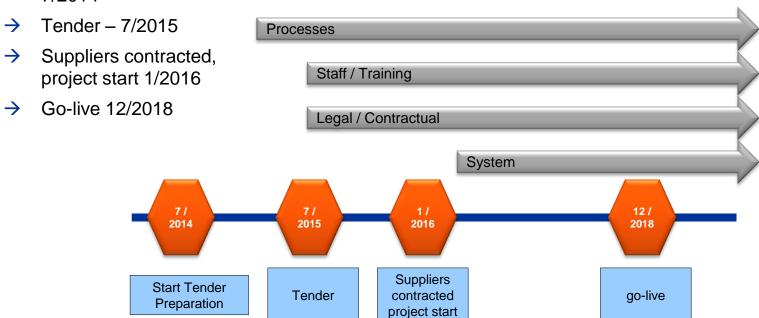


Figure: Regional Hub Concept



→ Project Duration

Start Tender Preparation – 7/2014



Transition to MIDAD completed

