



AIM SERVICES

- Operational Concepts**
- Data Chain Modelling**
- AIP/MAP Conversion**
- Migration Concepts**
- Training**

Development of Operational Concept Description

The ICAO Global Air Navigation Plan for CNS/ATM Systems (Doc 9750), its Amendment and the Global Plan Initiatives have set a focus on operational concepts as the basis for ATM/CNS and AIM system implementation. The ICAO Regions identifying currently the Global Plan Initiatives and taking the first steps towards implementation. The Eurocontrol Agencies' Concept of Operations Initiative starts to be exploited by the respective members' states. Avitech is supporting this by offering and developing Operational Concepts for Aeronautical Static Data Bases, AIP and MAP & Chart Systems together with its customers. This includes the processes and interfaces to Procedures Design and other Upstream Aeronautical Data Sources as well as the interfaces to all Downstream Applications like Flight Plan Systems, NOTAM Databases, the European AIS Database (EAD) and others.

The best place to start a project is to analyse the real operational needs based on the current situation in a countries Aeronautical Information Services (AIS) or Aeronautical Information Management (AIM) environment and to document those needs in an Operational Concept Description. Operational concepts analysis includes examination of external factors and factors internal to a system proposed to meet the ATM and AIM needs.

A well-developed set of operational concepts provides a useful foundation at the beginning of a project for later expansion of a system and for phased implementation.

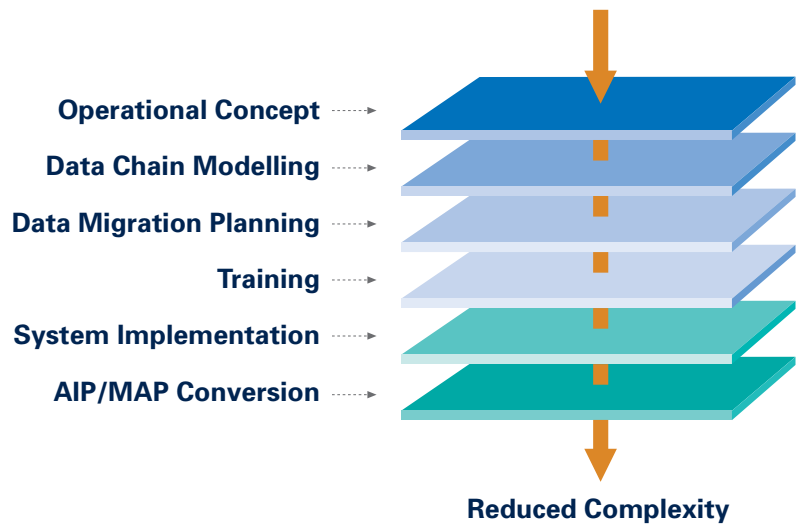
Aeronautical Data Chain Modelling

The Aeronautical Data Chain Modelling is the foundation of an Operational Concepts. The issues to be addressed are manyfold and include:

- Identifying the raw data providers
- Identifying data transfer points
- Identifying aeronautical products
- Documentation of all findings
- Identifying of gaps
- Translation of the user community needs and their detailed requirements into the Operational Concept
- Identifying of a phased implementation plan
- Identifying of training needs

The Aeronautical Data Chain Modelling addresses also the current organisational structure and identifies possible changes to enhance the aeronautical data publication process.

The Modelling of the Aeronautical Data Chain supports the establishment of the ICAO recommended quality system for AIS.





Migration Concepts

Based on Operational Concept and the Aeronautical Data Chain Avitech can assist AIM Organisations in planning the Aeronautical Data, Obstacle Data and Digital Terrain Model Migration by making optimum use of the Avitech .wiz@rd family of aeronautical applications (AeronauticalStatic Database, Obstacle Database, AIP, MAP).

The Migration Concept includes:

- Planning of the whole migration
- Identifying the best sequence of actions for migrating Aeronautical Static Data, Obstacle Data, AIP Text Data and MAP & Chart Data and the Aeronautical Charts itself
- Check and review points during migration
- Identifying and planning resources for the migration, Validation rules for the migration

AIP/MAP Conversion

The Migration Concept is the prerequisite to start the real Aeronautical Static Data, Obstacle Data, AIP Text Data and MAP & Chart Data Conversion. Avitech offers a wide range of conversions services to AIM organisations beginning from management and planning support up to the partial or whole conversion of existing complete AIPs including new compilation of all aeronautical charts.

The AIP/MAP Conversion takes all relevant ICAO documentation into account.

Training

Training of AIS/AIM personnel, management, and users of aeronautical data is the key for the successful implementation of the new operational concepts of the aeronautical data chain and the electronic publication of aeronautical obstacle data and digital terrain models.

Avitech offers tailored training course related the Avitech .wiz@rd family of aeronautical applications. Ab initio courses can be provided if required.

Trainings can be arranged at customer's premises or at the Avitech AIM Training Centre at Frankfurt a. M.

Conformance

The Avitech Operational Concepts and Aeronautical Data Chain Models are developed in conformance to:

- ICAO Annexes 4 and 15, including Manuals
- Quality Management System Manual for AIS/MAP Services (Doc 9839)
- RTCA/EUROCAE Documents:
 - Processing of Aeronautical Data (Do200A/ED76A)
 - Industry Requirements for Aeronautical Information (DO201A/ED77)
 - User Requirements for Terrain & Obstacle Data (DO276/ED98)
 - User Requirements for Aerodrome Mapping Information (DO272/ED99)
 - Interchange Standards for Terrain, Obstacle and Aerodrome Mapping Data (DO291/ED119)
- Eurocontrol AIS Data Process and Operating Procedures for AIS Static Data
- European Commission Regulation on Aeronautical Data and Information Quality (Draft)

Avitech AG

Bahnhofplatz 1
88045 Friedrichshafen / Germany
Phone: +49 (0) 7541 282-0
Fax: +49 (0) 7541 282-199
www.avitech.aero

Avitech s.r.o.

Prievozská 4D
82109 Bratislava / Slovakia
Phone: +421 (2) 5564-2801
Fax: +421 (2) 5564-2803
www.eaip.info

Avitech AG

Strahlenberger Weg 6
60599 Frankfurt a. M. / Germany
Phone: +49 (0) 69 6060-9894
marketing@avitech-ag.com