

**CANSO EUROPEAN WORKING PAPER**

**ON**

**ANSPS' ROLE IN**

**DMEAN INFORMATION MANAGEMENT**

**15 September 2004**



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## **Importance of DMEAN in Information Management**

DMEAN (Dynamic Management of European Airspace), as a mid-term pan-european concept of operations, aims for a safe, qualitative and quantitative improvement in the utilization of the European airspace by civil and military users.

As DMEAN is integrating and harmonizing the strategies of various domains the main elements of the DMEAN concept of operations might be characterized as follows:

- Improved planning and demand/capacity balancing through enhanced demand and capacity accuracy
- Integration of airspace, flow and capacity management, at network, regional, and local levels
- Improved links with Airports operations
- Activation of dynamic airspace structures and routes to provide the best pan-European network situation for the day of operations
- Extensive information sharing and CDM (gate to gate).

DMEAN will provide more accurate and up to date information on traffic demand and airspace users intentions (both current and forecast) based on improved operational and technical interfaces between airspace and airports as well as the integration of Airspace Management (ASM) and Air Traffic Flow and Capacity Management (ATFCM) on the European level. Existence of a flexible and dynamic adaptable airspace organization in combination with enhanced information sharing and procedures for collaborative decision making between all stakeholders concerned will result in a more flexible and dynamic European ATM-service across the pan-European network comparable found today locally within an Air Traffic Control Centre (ACC).

Collection, transmission, correlation, storage, management dissemination / delivery and display of all accurate, actual and consistent data needed for DMEAN operations is summarized as DMEAN Information Management. As these functions are indispensable for the provision of common situational awareness about the status of the European ATM network and for the support of CDM-procedures, Information Management is a vehicle to take full advantage of all capacity potential in the European ATM-network for the benefit of all users of the European airspace. Information Management is therefore a key enabler of DMEAN.

## **Present Status of the DMEAN Project**

The CONOPS and the Masterplan of DMEAN was reviewed and agreed by the DMEAN Stakeholder Committee in June 2004; consultations of EAG, ACG and CESC are planned for September/October 2004. Official approval of both documents by the Provisional Council of EUROCONTROL is expected in November 2004.

According to the masterplan DMEAN will become a EUROCONTROL-Framework programme which will be developed in close cooperation with the ANSP's and other stakeholders.

## Key Requirements on DMEAN Information Management

As basis for the DMEAN Information Management the implementation of the following central European data-repositories is envisaged:

- an Airspace Data Repository
- a Demand Data Repository
- a Flight Plan Repository
- an Archive Repository (for post-operational analysis).

Appropriate algorithm will allow to process the data stored in these data-pools and from other data-sources (MET, Regulations, ETFMS etc.) to reflect the agreed operational plan in a geographical display of the European Airspace Network Situation and to provide appropriate CDM-tools, accessible by all stakeholders concerned.

Considering the value of information management for DMEAN and the respective functions of the ANSP`s in operation of the CDM-framework, the following items are emphasized by CANSO as key-requirements:

- Existing data/databases shall be used to avoid duplication of effort and unnecessary investment costs
  - (TACT, IFPS, ENV, EAD, ARCH, national databases etc.)
- A gap analysis shall be completed to identify what additional data/functionality is needed for DMEAN
- Network management decisions shall remain the responsibility of the ANSP`s within the new to be established CDM-framework with CFMU, AO`s, airports and military authorities
- EUROCONTROL shall be the DMEAN Framework Programme Manager
- An assessment shall be completed to identify the most efficient way to manage the DMEAN database framework, including possible externalization.

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