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**Subject: AIS Israel - Start of Operation of the Eurocontrol European AIS Database (EAD)**

This Aeronautical Information Circular (AIC) is issued to inform all Users of Israel airspace that with the aim of improving and harmonizing the procedures and delivery of the aeronautical data, Israel AIS took the decision to become Operational in all **EAD operational areas** (INO, SDO, PAMS, e- AIP Production, and e- Chart Production).

## **1. INTRODUCTION**

Standard and recommended practices for AIS were first adopted by the ICAO council on 15 may 1953, pursuant to the provisions of article 37 of the convention on international civil aviation (Chicago 1944) and were designated as annex 15 to the convention.

### **Need for change:**

Changes in the use of information required for flight have meant that traditional methods can no longer be used to collect/originate, store and distribute aeronautical information and data. Changes in international legislation also require upgrades and changes to AIS infrastructure, production techniques, such that required service levels can no longer be achieved using traditional methods.

Through the EMAC and EUROMED Aviation projects, Israel was invited as well as other EUROMED Beneficiary states to merge with one of the EUROCONTROL Pan European functions namely the European AIS Database (EAD) as a data provider and/or data user.

## **2. THE EUROCONTROL EUROPEAN AIS DATABASE (EAD) PROGRAMME**

EAD is owned by EUROCONTROL and is operating a reference database of quality-assured aeronautical information from the ECAC and world-wide area. EAD is providing a full integrated AIS solution for Data Providers (DP) and Data Users (DU) of aeronautical information, and immediate access to digital aeronautical information.

EAD is offering services to clients for different operational areas:

- **Static Data Operation (SDO):**
  - Introduce and retrieve static data, aeronautical information and elements of the Integrated Package;
- **International NOTAM Operation (INO):**
  - Create and retrieve validated NOTAM and Pre-flight Information Bulletins (PIB);
- **AIP Production (AIP):**
  - Generate AIP documents
- **Chart Production (CHP):**
  - Generate charts;
- **Published AIP Management System (PAMS):**
  - Maintain a library of AIPs, AIP supplements, AIP amendments, AICs and charts that can be browsed and consulted by users.

The EAD operation requires the execution of activities and services by highly qualified skills and Know-how of both the AIS domain, and of how AIS related operations are carried out.

Amongst others the EAD services comprise:

- Processing of world-wide NOTAM;
- Coordination of static data conflict resolution;
  - Maintenance of specific minimum set of data for the world-wide area;
  - Provision of 24 hours technical and operational helpdesk and monitoring, maintenance and
  - Operation of the System (EAD network included) to ensure the delivery of the system functionality.

## **EAD system architecture and topology**

EAD System Architecture EAD System Topology

Note: Abbreviations used above are: ESI-EAD System Interface, ECIT-EAD Client Interface Terminal

### **3. BENEFITS**

The main benefit is: “One single source of Aeronautical Information”. Specific benefits are identified for:

#### **Safety - Improved data quality**

- ICAO standards, OPADD, SDP, AICM/AIXM applied;
- Less reliance on human processing;
- Increased data integrity once it is input in EAD by the data provider
- Increased data coherence through validation checks;
- Automated processes between applications;
- Timely distribution of aeronautical information.

#### **Cost Effectiveness - Integration of the different AIS components in the EAD**

- Reduction in paper dissemination;
- Reduction of workload throughout the complete AIS process;
- Reduction in local AIS development costs through the use of commonly developed applications.

#### **Availability/Accessibility**

- Built-in redundancy with high availability;
- One single point of access;
- Easy retrieval of data for all clients.

### **4. IMPLEMENTATION IN ISRAEL**

AIS in Israel are provided by the Israel Airports Authority Regulatory Commission from the AIS Headquarters, the International NOTAM Office (NOF), and from AIS at Ben-Gurion Airport (LLBG) and at Eilat/Ramon Airport (LLER).

#### **AIS Services**

Includes AIP; AIP AMDT; AIP SUP; AIC; NOTAM and Pre-Flight information Bulletins; Checklist and Summaries and FPL.

AIS of Israel remains responsible for inserting, maintaining and correcting national data in the context of a system wide framework of information management, centralized in EAD. It maintains Intellectual property rights and control of the data for which it is responsible.

#### **AIS ISRAEL as Data Provider (DP)**

Will be responsible for:

- Entering and managing Static Data in the EAD (SDO DP);
- Publishing AIP, AIP Amendments, AIP Supplement, AICs and Charts (AIP and Chart Production);
- Managing the library with AIP, AIP Amendments, AIP Supplement, AICs and Charts (PAMS DP);
- Creating and publishing national dynamic aeronautical information (NOTAM) through EAD (INO DP).

The EAD Services perform coherence checking of the data in order to assure users a consistent view and retrieval of data.

#### **AIS ISRAEL as Data User (DU)**

Will be able, from the NOTAM Office (NOF) and the different Aerodrome reporting offices:

- To generate static data reports (SDO DU)
- To consult AIP, AIP Amendments, AIP Supplements, AIC and Charts from ECAC States (PAMS DU)
- To generate Pre-Flight Information Bulletins – world-wide coverage (INO DU)
- To create, validate and distribute flight plans (FPL), and to manage both client information and AFTN address lists (Briefing Facility (BF));
- To monitor the real traffic situation at the different aerodromes and the different status of
- FPL for which each unit is responsible including incoming and outgoing messages (Briefing Facility (BF)).

### **NOTAM Distribution**

ISRAEL NOTAM Office (NOF) creates NOTAM directly to EAD via a dedicated Network.

NOTAM distribution is performed by EAD, using AFTN originator address EUECYIYN, According to a distribution list maintained by International NOTAM office of Israel.

Requests to be included in NOTAM distribution list shall be addressed to LLBGBTIX by AFTN, or by

Email to: [nofm@iaa.gov.il](mailto:nofm@iaa.gov.il) [notamoffice@iaa.gov.il](mailto:notamoffice@iaa.gov.il)

## **5. IMPLEMENTATION STATUS**

### **DATA USER (DU) –**

- SDO, PAMS (operational from 2018)
- INO - **effective from 05 NOV 2020**
- Briefing Facility (BF) - **effective from 05 NOV 2020**

### **DATA PROVIDER (DP) –**

- SDO (operational from 2018)
- PAMS (operational from 2018)
- INO - **effective from 05 NOV 2020**
- E-AIP (estimated Q1-2021)
- E-charts (estimated Q3-2021)

## **6. FURTHER INFORMATION**

Information and implementation details can be obtained from ICAA Client Manger:

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Further AICs, may be issued as the implementation proceeds.