



International Civil Aviation Organization

MIDANPIRG Air Traffic Management Sub-Group

Ninth Meeting (ATM SG/10)
(Jeddah, Saudi Arabia, 20 – 23 October 2024)

Agenda Item 3: Planning and Implementation issues related to ATM/SAR

CONTINUOUS PERFORMANCE ATM DIGITAL BRIEFCASE

(Presented by Saudia Arabia)

SUMMARY

This paper presents the Continuous Performance Management ATM Digital Briefcase aims to deliver a state-of-the-art system that leverages the latest design techniques to enhance operational efficiency and communication for air traffic management (ATM) professionals. The system will be accessible via multiple devices, ensuring 99.99% availability and seamless integration of various supporting applications and tools. This focuses on improving data analysis, communication, and operational workflows, reducing workload, and supporting high-performance air traffic services.

Action by the meeting is at paragraph 5.

REFERENCE(S)

- Saudi Air Navigation Service (SANS) Strategy
- GENERAL AUTHORITY OF CIVIL AVIATION OF SAUDIA ARABIA (GACAR) 171

1. INTRODUCTION

1.1 The Continuous Performance Management ATM Digital Briefcase is designed to enhance the efficiency and communication of air traffic management (ATM) professionals by providing a unified platform accessible across multiple devices. The system will leverage the latest design techniques to ensure seamless integration and high availability, addressing the needs of end users, including Air Traffic Controllers (ATCOs), ATC Supervisors, and ATM management. By offering features such as real-time information, automated reporting, and centralized data, aims to support high-performance air traffic services and improve overall operational workflows.

1.2 The Objectives of implementing the Continuous Performance Management ATM Digital Briefcase are the following;

- a) **One-Stop Access:** Provide a single platform for accessing multiple applications, tools, and features essential for ATM operations.
- b) **Efficiency and Transition:** Enable efficient and effective operations while supporting the transition of systems and personnel.
- c) **Management Reporting:** Allow management to access and review statistical, performance, and safety reports.

- d) **ATC Support:** Provide ATCOs with guidance, digital briefings, and access to essential information during and outside of duty hours.
- e) **Improvement in Communication:** Enhance communication, reduce redundancy, and improve operational records.

2. BACKGROUND

2.1 The current operational environment in Air Traffic Services Units (ATSUs) is characterized by a mix of paper-based and electronic systems, leading to inefficiencies in data management and communication. The ATM Digital Briefcase addresses these challenges by offering a unified platform that centralizes data, enhances communication, and improves operational efficiency. The development of this system is driven by the need to streamline workflows, reduce the workload on ATCOs, and ensure that essential briefings and updates are effectively communicated and acknowledged.

3. IMPLEMENTATION

- a) **Software Development:** The Digital Assistant software is under development for various devices, including tablets, PCs, and laptops. The system will allow ATCOs to log in, receive briefings, and access essential information before and during duty hours.
- b) **Hardware Integration:** The system will ensure 99.99% availability and be easily scalable to accommodate future requirements.
- c) **User Interaction:** The design review will specify user roles and interactions with the system's functions and features.
- d) **Cybersecurity and Network:** The system will be hosted on a high-speed network with advanced cybersecurity measures to protect data and ensure secure communication.
- e) **Training and Support:** A user-end manual with instructions, including video tutorials, will be provided.

4. ADDITIONAL INFORMATION

- a) **System Features:** The ATM Digital Briefcase will include features such as E-Logs, digital briefings, archiving, user profiles, e-documents, and communication windows.
- b) **Data Management:** All documents and reports will be archived and available for analysis or review for a minimum of five years.
- c) **User Permissions:** Access to different features will be controlled by role-based permissions, ensuring that only authorized personnel can make entries in the ATC logbook.
- d) **Interface Connections:** The system will integrate with existing platforms such as Roster, MEM, Internal Portal, iHUB, AIM (NOTAM), and more.

5. ACTION BY THE MEETING

5.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matters as appropriate.