



International Civil Aviation Organization

**Middle East Air Navigation Planning and
Implementation Regional Group (MIDANPIRG)**

Fourteenth Meeting
(Jeddah, Saudi Arabia, 15-19 December 2013)

Agenda Item 3: Global, Inter and Intra-Regional Activities

REGIONAL AND GLOBAL AIR NAVIGATION REPORTING

(Presented by the Secretariat)

SUMMARY

Since the 37th Session of the ICAO Assembly, and within the context of Resolutions A37-12, much development has taken place related to the implementation of a global air navigation system. The *Global Air Navigation Plan* (GANP, Doc 9750) has been revised as the fourth edition and released in 2013 to include the new Aviation Systems Block Upgrades (ASBU) framework. Also, States and planning and implementation regional groups (PIRGs) are transitioning to a performance-oriented approach to support their air navigation infrastructure planning.

As PIRGs are progressing with planning for implementation, the next step calls for an air navigation performance measurement, monitoring and reporting strategy. Accordingly, this paper presents the ways and means to report the progress of regional implementation through planned online system referred to as the *Regional Performance Dashboard* (March 2014) which will also support an annual *Global Air Navigation Report* (April 2014).

Action by the meeting is at paragraph 6.

REFERENCES

Doc 10007, *Report of the Twelfth Air Navigation Conference* (2012) (AN-Conf/12)
Doc 9958, *Assembly Resolutions in Force* (as of 8 October 2010)
Doc 9883, *Manual on Global Performance of the Air Navigation System*

1. INTRODUCTION

1.1 *Regional planning:* The development and maintenance of regional air navigation plans (ANPs) is undertaken by ICAO's planning and implementation regional groups (PIRGs) with the assistance of the Regional Offices. Regional plans are derived from the Global Air Navigation Plan (GANP) on the basis of operational needs. Tactical adjustments to the work programmes are made on an ongoing basis and supported by ICAO standardized online tools. Analysis of data is carried out collaboratively and the results, which will be available through the *Regional Performance Dashboard* and the annual *Global Air Navigation Report* as discussed in the ensuing paragraphs, will help make a determination of the tactical adjustments needed.

2. DATA COLLECTION

2.1 *Measurement strategy:* In 2009, all PIRGs adopted a performance-based approach to air navigation planning and implementation. The next step calls for establishment of measurement and reporting strategy. While PIRGs are progressively identifying a set of regional performance indicators and supporting metrics, States have recognized that a measurement strategy comprising of data compilation, processing, storage and reporting for the identified regional performance metrics is fundamental to success of the performance-based approach. A performance measurement strategy will enable global correlation of status and expectations. In order to support this ongoing task of collecting, measuring and reporting data, PIRGs will consider allocating the measurement effort to an existing PIRG subgroup or forming a new subgroup for this purpose. The ICAO website will allow the visualization of the status of implementation through dynamic and interactive charts. This system will generate ad-hoc reports and enable an easy transformation of the dataset into the *Regional Performance Dashboard* and the annual *Global Air Navigation Report*.

2.2 In addition, memoranda of understanding have been established with industries in order to obtain information related to the status of implementation of the air navigation infrastructure. This information will assist in the development of *Regional Performance Dashboard* and the annual *Global Air Navigation Report*.

3. REGIONAL PERFORMANCE DASHBOARD

3.1 *Dataset and prototype:* Transparency and sharing of information are fundamental to a safe and efficient global air transportation system. Consistent with this principle, the Organization is planning to introduce regional 'Performance Dashboard' homepages for every public website of the ICAO Regional Offices. These dashboards will illustrate the regional implementation status relating to the strategic objectives for the period 2014-2016, approved by the 38th Session of the Assembly in September 2013. They will show targeted performance at the regional level and will, initially, contain graphics and maps with a planned expansion to include the Aviation System Block upgrades (ASBU) Block 0 Modules. The new interactive online system is in place for Africa since August 2013 and for the remaining regions in March 2014, and will be updated semi-annually.

4. GLOBAL AIR NAVIGATION REPORT

4.1 *Purpose:* Much like the existing annual safety report, the objective of the annual global air navigation report is to assist PIRGs and States in understanding which areas require special attention to effectively improve air navigation performance worldwide as well as to help propagate information on implementation success stories and associated best practices. The first edition of this report, scheduled for April 2014, will also provide an opportunity for the civil aviation community to evaluate progress across different ICAO regions. This will facilitate more effective interregional harmonization planning. The outcomes reflected in the proposed report could also help identify annual tactical adjustment priorities for regional work programmes as well as informing longer-term policy adjustments.

4.2 *Subjects to be covered:* The first edition of the *Global Air Navigation Report* is planned for release in April 2014. It will consist of qualitative and quantitative information and will cover key performance areas of air navigation systems. The initial report will cover the following subjects:

- a) global air navigation challenges, such as the capability to ensure a safe, sustained growth, an increased efficiency and a responsible environmental stewardship;
- b) measuring against those challenges;
- c) status of operational measures for performance improvement;

-3-

- d) implementation progress, in accordance with State operational requirements, of selected priority ASBU Block 0 modules. The metrics or initial dataset that includes key global air navigation priorities are Performance Based Navigation (PBN), Continuous Descent Operation (CDO), Continuous Climb Operations (CCO), Aeronautical Information Management (AIM), Air Traffic Flow Management (ATFM) and estimated environmental benefits accrued from operational improvements based on ICAO Fuel Savings Estimation Tool (IFSET) or if desired, any other more rigorous tool recognized by ICAO's Committee on Aviation Environmental Protection (CAEP). This initial dataset for both *Regional* Performance Dashboard and the *Global* Air Navigation Report was recently agreed by the PIRG Chairs which will be proposed for regional adoption; and
- e) sharing of successful initiatives and key demonstrations.

4.3 The report will conclude with success stories of efficient implementation.

5. CONCLUSION

5.1 Transparency and sharing of safety information are fundamental to a safe and efficient air transportation system. Consistent with this principle, the proposed *Regional* Performance Dashboard and annual *Global* Air Navigation Report in conjunction with the existing annual global safety report will provide a view of the implementation status of safety, air navigation, efficiency, and environmental benefits for a given region. This will help ensure that the information is used in a fair and consistent manner, with the objective of improving safety, efficiency and contributing to environmental benefits.

6. ACTION BY THE MEETING

6.1 The meeting is invited to:

- a) note the plan for an online *Regional* Performance Dashboard and annual *Global* Air Navigation Report; and
- b) urge States to provide the requisite information.

- END -