



THIRTEENTH AIR NAVIGATION CONFERENCE

Montréal, Canada, 9 to 19 October 2018

COMMITTEE A

Agenda Item 1: Air navigation global strategy

1.1: Vision and overview of the sixth edition of the GANP

NEW STRUCTURE OF GLOBAL AIR NAVIGATION PLAN (GANP)

(Presented by Saudi Arabia)

EXECUTIVE SUMMARY

This paper supports the new multilayer structure of Global Air Navigation Plan (GANP) and proposes to explore the possibility to add a sub-layer to GANP where a database repository is established with all relevant material to support deployment and implementation of ASBU modules.

Action: The Conference is invited to agree to the recommendation in paragraph 3.4.

1. INTRODUCTION

1.1 The evolution of air navigation system at global, regional and national levels is the main purpose of the ICAO *Global Air Navigation Plan* (GANP, Doc 9750). It is focusing on integration of aviation planning at both the regional and State level and addresses required technical and operational improvements through aviation system block upgrades (ASBU) modules.

1.2 The GANP is considered as the main reference document at global and regional levels for the evolution of air navigation system until 2031. The new structure of GANP is an opportunity to include emerging air navigation concepts and allow wide sharing of information on planning and deployment of new technologies supporting ASBU modules.

1.3 The multilayer structure of GANP (AN-Conf/13-WP/18 refers) is also an opportunity to have a portal with multi-levels structure allowing users to have access to the relevant information and data needed. In particular, GANP portal, under development by ICAO, may be a tool to monitor and share information on the planning and deployment of ASBU modules.

2. DISCUSSION

2.1 The contents of GANP has evolved and based on the Twelfth Air Navigation Conference recommendations, ICAO has:

- a) developed guidance material for the categorization of block upgrade modules for implementation priority and provided guidance as necessary to planning and implementation regional groups and States; and

- b) identify modules considered to be essential for implementation at a global level in terms of the minimum path to global interoperability and safety with due regard to regional needs.

2.2 All relevant material was consolidated into the fifth edition of GANP with eight appendices that provide supplementary information relating to the evolution of the GANP, online support documentation, detailed description of ASBU modules, and the technology roadmaps supporting the block upgrades, as well as financial guidance to implement the modules.

2.3 The GANP states that some ASBU modules are well suited for regional or sub-regional deployment and the regional planning processes under the Planning and Implementation Regional Groups (PIRGs) are designed to consider which modules to implement regionally, under which circumstances and according to agreed timeframes. These modules may be subject of regional initiatives and projects to support common implementation and ensure required interoperability of air navigation systems between involved States.

2.4 Guided by the GANP, the regional and national planning processes have been aligned to identify those modules which best provide solutions and improvements considering operational needs. Depending on implementation parameters and factors such as the complexity of the operating environment, the constraints and the resources available, differences between States and region are observed in the progress of implementation of ABSU modules.

2.5 The ASBU implementation monitoring is organised through (PIRGs) and the progress status of ASBU implementation is reflected into monitoring reports issued by the various ICAO Regional Offices.

2.6 The establishment of guidance and principles for initiatives, projects and technical assistance that support local (State level), regional and sub-regional implementation of ASBU modules will bring substantial benefits to all involved States and will be considered as one of the effective mechanism to support the “No Country Left Behind” (NCLB) initiative.

2.7 Although the GANP has a global perspective and strategic objectives, the updated contents of GANP is a unique opportunity to support local, regional and sub-regional implementation activities through in-depth guidance, principles and methodologies to ensure successful deployment of ASBU modules. The in-depth guidance for each layer of the new GANP structure can be organized as sub-layer where a database repository is established with all relevant material supporting the understating and the implementation. This approach will definitely improve the level of implementation and deployment of ASBU modules at local, regional and sub-regional levels.

2.8 Accordingly, the upcoming ICAO GANP portal can be structured and designed to support implementation of ASBU modules at local and regional levels and ensure that initiatives, projects and technical assistance are achieving their objectives. The contents of new GANP sub-layers and database repository may include:

- a) in-depth guidance material, workshops and symposia on all aspects of ABSU regional and sub-regional implementation including recommended regulatory approvals and oversight activities;
- b) guidance and principles of design and validation of technology and for operational and maintenance procedures etc.;
- c) online educational and learning packages on ASBU modules;
- d) information on ABSU deployment and lessons learned at regional, State and industry levels;

- e) information on results of research, development and validation on operational and technological matters which may affect the ASBU modules and technology roadmaps; and
- f) specific aviation standards, technical specifications and products to assist in the implementation of ABSU modules.

3. CONCLUSION

3.1 The new structure of GANP is considered an opportunity to strengthen and improve the air navigation planning and implementation at global, regional and State levels. Although, GANP establishes global strategy that is broken down into frameworks covering managerial and global technical levels, it can be complemented by sub-layers or database repository with all relevant material to support understating, implementation and deployment of ASBU modules at global, local and regional levels.

3.2 The GANP will be supported by an ICAO portal to allow States and all stakeholders to access the relevant information needed. This portal may be a valuable tool to support an effective implementation of ABSU modules through in-depth guidance and sharing of experience gained by States, regions and industry.

3.3 The GANP portal can also be used to:

- a) make available information and technical guidance on regional initiatives and projects related to ASBU modules deployment;
- b) upload information on results of research, development and validation on operational and technological matters which may affect the ASBU modules and technology roadmaps; and
- c) widely share the Standards and technical specifications used in the definition, design and deployment of new technology as part of ASBU modules implementation;

3.4 In light of the above, the conference is invited to agree to the following recommendations:

Recommendation 1.1/x – Regional and local ASBU implementation projects

That the Conference:

- a) request ICAO to explore the possibility to establish sub-layer or database repository with all relevant material to support understating, implementation and deployment of ASBU modules at global, local and regional levels to include in GANP guidance and principles governing regional initiatives and projects for the implementation of ASBU modules at regional and sub-regional levels;
- b) request ICAO to include GANP in-depth guidance supporting ASBU modules implementation at regional, sub-regional and State levels. The guidance should be categorized as per GANP new structure;
- c) request ICAO to coordinate with specialized organizations to make available all information on Standards and technical specifications associated with the deployment of ABSU modules; and
- d) request ICAO to organize regional seminars on the new GANP with focus on sharing experience and information that can be used as guidance and best practices for the implementation of GANP Modules.