



**Agenda Item 4**

**Air Navigation Matters**

**4.1 Global/Regional Air Navigation Developments**

**eANP DEVELOPMENT**

(Presented by the Secretariat)

**SUMMARY**

This paper provides a brief on the development of the electronic version of the Air Navigation Plan (eANP) as part of the actions that are being taken in follow-up to Recommendation 6/1 made at the 12th Air Navigation Conference [Regional performance framework – planning methodologies and tools] regarding the alignment of regional air navigation plans with the Fourth Edition of the Global Air Navigation Plan.

**References:**

- Doc 10007, Report of the Twelfth Air Navigation Conference (2012)

***Strategic Objectives***

*This information paper is related to Strategic Objectives:*

- A. Safety – Enhance global civil aviation safety*
- C. Environmental Protection and Sustainable Development of Air Transport*

**1. Introduction**

1.1 The 12th Air Navigation Conference was informed that an online format of the regional ANPs, referenced as the electronic regional air navigation plan (eANP), was being developed with features that include a web-based planning and editing tool, an updated version of the text and tables of the Basic ANP and FASID that are aligned with the aviation system block upgrade (ASBU) methodology.

1.2 In agreeing on Recommendation 6/1 [Regional performance framework – planning methodologies and tools] the AN-Conf/12 agreed that Planning and Implementation Groups (PIRGs) should focus initially on implementing ASBU Block 0 Modules and finalizing the alignment their regional ANPs with the GANP/ASBU by May 2014. To assist the PIRGs in this task, ICAO was requested to develop guidance material for the regional/national deployment of new ATM technologies, procedures and operational approvals.

## 2. Discussion

2.1 It was confirmed that the basic requirements for the ANP to serve a post-AN-Conf/12 regional planning environment needed to be established before further development of the eANP could take place. Accordingly, ICAO Headquarters established a Secretariat working group, composed of a representative from each Regional Office and ICAO Headquarters, to prepare an action plan and monitor the review/development of the ANP/eANP project. The ToR of the eANP working group (eANP-WG) is shown in Appendix to this paper.

2.2 The first meeting of the eANP-WG was held from 4 to 8 February 2013 in the ICAO EUR/NAT Office in Paris. The eANP-WG agreed on the objective, scope and procedure for amendment of the future ANP. A revised structure, format and Table of Contents of the ANP was agreed taking into account the ASBU methodology. In this regard, it was agreed that the new ANP should be composed of three volumes:

- a) Volume I should contain stable plan elements whose amendment necessitated approval by the Council and these elements be related to:
- assignment of responsibilities;
  - mandatory requirements subject to regional agreement; and/or
  - additional requirements specific to the region which are not covered in SARPs.

Note.- The following is a non-exhaustive list of such elements:

- Flight Information Regions (FIR) boundaries (Table and Charts);
- Search and Rescue Regions (SRR) boundaries (Table and Charts);
- Volcanic Ash Advisory Centres (VAAC);
- Tropical Cyclone Advisory Centres (TCAC);
- Volcano Observatories (VO);
- ...

- b) Volume II should contain dynamic plan elements whose amendment did not necessitate approval by the Council and these elements be related to:
- assignment of responsibilities;
  - mandatory requirements subject to regional agreement; and/or
  - additional requirements specific to the region which are not covered in SARPs.

Note.- The following is a non-exhaustive list of such elements:

- Major traffic flows;
- ATS route network;
- Meteorological Watch Offices (MWO);
- Secondary Surveillance Radar (SSR) codes;
- Five-letter name-codes;
- VOLMET Broadcasts;
- ...

- c) Volume III should contain dynamic (flexible) plan elements whose amendment did not need approval by the Council and these elements be related to the implementation of certain air navigation systems, based mainly on the ASBU modules endorsed at regional or sub-regional level.

2.3 Several teleconferences by the eANP WG has been held, last in 3 June and the following target dates for work by the eANP-WG members were revised:

- a) Content of Volume I – to be finalised by 30 August 2013;
- b) Content of Volume II – to be finalised by 4 October 2013;
- c) Content of Volume III – to be finalised by 4 October 2013; and
- d) Second meeting of the eANP-WG (eANP-WG/2) – 18 to 22 November 2013 at ICAO Headquarters.

2.4 Regarding the content of Volume III, the eANP-WG will design the supporting enablers (tables/databases) and method of monitoring of implementation for a selected number of Block 0 modules which will serve as a prototype or model for each Region to use when developing the enablers for their selected modules. The modules will not be imposed on the Regions as it was recognised that certain modules were either well-established in a Region or not required at all.

2.5 It was agreed that the current Council-approved procedure for amendment of the Basic ANP would be applicable to the new Volume I and that the current amendment procedure of the FASID would be applicable to the new Volumes II and III. These procedures will be complemented, at a later stage, by the description of the process of amendment (i.e. population of data, review, validation and approval) using the web-based platform of the ANP (eANP).

2.6 Following the agreement of the proposed content of the three Volumes after the 2nd meeting of the eANP-WG, the respective PIRGs will be involved in the further development at an appropriate time.

### **3. Conclusion**

3.1 The development of the eANP is on-going and the support of the States once this electronic platform is implemented in 2014 will be required.

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## APPENDIX

### TERMS OF REFERENCE OF THE eANP WORKING GROUP (eANP-WG)

1. Background

1.1 The eANP Working Group was established on 19 December 2012 by the Air Navigation Bureau (ANB) as a result of the recommendations formulated by the ICAO Deputy Regional Directors (DEPRD) training (Montreal, November 2012), taking into consideration new developments, including the outcome of the AN-Conf/12.

2. Terms of Reference

2.1 The Working Group is expected to:

- a) Make proposals for changes to the Regional Air Navigation Plans (ANPs), including:
  - development of a new structure, format and content;
  - harmonization of the tables contained in the current Facilities and Services Implementation Documents (FASID) to support the implementation of the ICAO Aviation System Block Upgrades (ASBUs); and
  - relevant implementation monitoring and reporting process.
- b) Review and propose amendments to the current ANP amendment procedures and approval process, as appropriate;
- c) Coordinate with the ICAO Aviation Safety Tools (SAST) Section the development of the electronic Air Navigation Plan (eANP) on a web-based platform;
- d) Prepare an action plan to carry out the above activities.

2.2 The results and proposals developed by the eANP Working Group will be presented to the Director of Air Navigation Bureau (D/ANB) for necessary action.

3. Working Methods

- a) The Working Group should avoid duplication of work with other ANB projects and maintain close coordination among the existing entities, including the ROs, to optimize the use of available resources and experience;
- b) The Working Group may designate, as necessary, ad-hoc groups to work on specific topics and activities; all tasks and activities should be clearly defined by time and deliverables; and
- c) The Working Group should conduct its work electronically (emails and teleconferences), and only hold meetings when necessary.

4. Composition

- a) Designated members from each Regional Office and Headquarters; and
- b) Focal points/experts from ICAO to support the designated members and the activities of the Working Group.