



Agenda Item 1: Follow up to conclusions and decisions adopted by SAM/IG meetings, results of the Seventeenth Meeting of the CAR/SAM Regional Planning and Implementation Group (GREPECAS/17) and progress in the development of the new electronic Air Navigation Plan (e-ANP)

Progress in the development of the new electronic Air Navigation Plan (eANP)

(Presented by the Secretariat)

| | |
|---|--|
| SUMMARY | |
| This working paper is to maintain States and the aeronautical community in general, informed on the progress of the regional electronic Air Navigation Plan (eANP) which is being developed for all ICAO Regions. | |
| REFERENCES | |
| <ul style="list-style-type: none">• Twelfth Air Navigation Conference (AN-Conf/12)• eANP WG meetings• GREPECAS/17• SAM/IG/13 | |
| ICAO strategic objectives: | <i>A - Safety</i> <i>B - Air navigation capacity and efficiency</i> |

1 Introduction

1.1 The Council decided on 26 February 1997 that the regional air navigation plans (ANPs) should be published in two volumes: a Basic ANP and a facilities and services implementation document (FASID) with the corresponding procedure for amendment. The latest change to the procedure for amendment for the Basic ANP document was approved by the Council on 25 February 1998.

1.2 The Twelfth Air Navigation Conference (AN-Conf/12) agreed to Recommendation 6/1 - Regional performance framework – planning methodologies and tools regarding the alignment of regional ANPs with the fourth edition of the *Global Air Navigation Plan (GANP)* (Doc 9750).

1.3 The Secretariat established a working group (eANP WG), composed of representatives from Regional Offices and ICAO Headquarters, to make proposals for changes to the regional ANPs which included the development of a new structure, format and content of the ANP.

1.4 The eANP WG recognized that regional ANPs were still needed and represented the bridge between, from one side, the global provisions in the ICAO *Standards and Recommended Practices* (SARPs) and the GANP, to the other side, the States' national plans and implementation. In this regard the Secretariat WG considered the following:

- a) the ANPs detail the facilities, services and procedures required for international air navigation within a specified region(s). They also contain planning and guidance material. It was noted that based on a Council decision (Eighth Meeting of its 131st Session refers), the monitoring of the implementation status of air navigation facilities and services was not part of the scope and objectives of the current ANP;
- b) based on Recommendation 1/2 of the AN-Conf/12, and taking into consideration the new developments related to the performance based approach, the aviation system block upgrades (ASBU) methodology, etc., it was agreed that the new ANP should also include elements related to the monitoring of the status of implementation, at least to the ASBU modules;
- c) a clear separation between the mandatory requirements and the optional/selective implementation scenarios based on the ASBU methodology should be included in the ANP; and
- d) the need to identify the elements included in the current ANPs which were no longer required.

1.5 During SAM/IG/13, the Meeting was presented with the format of Volumes proposed for the development of the new electronic regional Air Navigation Plan. Likewise this new format and contents was presented to the last GREPECAS/17 Meeting, where the new template and amendment procedure of the electronic Air Navigation Plan was noted.

2. **Background**

2.1 **Objective and purpose of the regional ANPs**

2.1.1 The objective and purpose of the regional ANPs are as follows:

- a) the ANPs provide for the planning and implementation of air navigation systems within a specified region(s), in accordance with the agreed global and regional planning framework. They are developed to meet those needs of specific areas not covered in the worldwide provisions. The development and maintenance of the ANPs is undertaken by ICAO PIRGs with the assistance of the ICAO Secretariat;
- b) the ANPs are used as a repository document for the assignment of responsibilities to States for the provision of air navigation facilities and services within a specified area in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300);
- c) the ANPs contain requirements related to the facilities and services to be implemented by States in accordance with regional air navigation agreements. The procedural parts of ANPs are published in the ICAO Regional Supplementary Procedures (SUPPs) (Doc 7030);
- d) the ANPs contain provisions that States can follow in planning the provision of their air navigation facilities and services, with the assurance that facilities and services furnished in accordance with the plan will harmonise with those of other States for an integrated system adequate for the foreseeable future;

- e) the ANPs may serve as a basis for air navigation service charges which are levied for services provided or made available to users, in accordance with ICAO's Policies on Charges for Airports and Air Navigation Services (Doc 9082) and ICAO Manual on Air Navigation Services Economics (Doc 9161); and
- f) the ANPs support the performance-based approach to planning adopted by ICAO to measure the efforts made by States in implementing the agreed requirements.

eANP WG and new ANP template

2.2 The eANP WG had two (2) face-to-face meetings (Paris, France, 4-8 February 2013, and Montreal, Canada, 18-22 November 2013), six (6) teleconferences of its Steering Committee (SC) (25 March, 3 June, 27 August and 31 October 2013, 26 March and 16 April 2014) and one (1) teleconference of the whole WG members (5 September 2013). Most of the work was conducted through emails among the Secretariat WG members. The eANP WG submitted the final regional ANP template on 22 April 2014.

2.2.1 Format and Table of Contents of the eANP

2.2.2 ANP data related to air navigation facilities and services can be classified as stable, dynamic or flexible. In this regard, it was agreed that the new eANP should be composed of three volumes:

- a) Volume I should contain stable plan elements, the amendment of which require approval by the Council, related to:
 - 1) assignment of responsibilities;
 - 2) mandatory requirements subject to regional agreement; and/or
 - 3) 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, the amendment of which does not require approval by the Council (approval is by regional agreement involving the relevant PIRG), related to:
 - 1) assignment of responsibilities;
 - 2) mandatory requirements subject to regional agreement; and/or
 - 3) 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; Air Traffic Service (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 providing implementation planning guidance for air navigation systems and their modernization taking into consideration emerging programmes such as the ASBUs and associated technology roadmaps described in the GANP. It is not intended that all ASBU Modules are required to be applied in every State, sub-region and/or region. The ANP Volume III would also include appropriate additional guidance, particularly with regard to implementation, to complement the material contained in the ANP Volumes I and II. The amendment of Volume III would not require approval by the Council nor regional agreement (Part I is under responsibility of the Secretariat and approval of Part II is under the responsibility of the relevant PIRG).

2.3 **Description of the contents of the eANP**

2.3.1 The general structure of the technical parts of Volumes I and II (AOP, CNS, ATM, MET, SAR and AIM) would consist of:

- a) introduction;
- b) general regional requirements; and
- c) specific regional requirements.

2.3.2 It is to be noted that the Section “General Regional Requirements” would be harmonized for all regions. Accordingly, an amendment of the provisions (text and table templates) in “General Regional Requirements” would lead to amendment of the eANP of all regions.

2.3.3 It is highlighted that the Statement of Basic Operational Requirements and Planning Criteria (BORPC) is not included in the new eANP, as with the revised GANP, because it repeated information published in other ICAO publications and was considered duplication as well as obsolete. The BORPC was replaced with the “General” and “Specific” requirements in Volumes I and II that include the relevant planning principles of BORPC to be retained in the ANP. With regard to the table/database on ATS Routes, it was agreed that the PIRGs would decide on the need for a table/database and/or Chart on ATS Routes for their regions and on the associated mechanisms for maintaining this table/database under Specific Regional Requirements of Part IV - ATM of Volume II.

2.3.4 The information contained in Volume III would be related to implementation monitoring, planning and/or guidance. The structure of Volume III would be kept simple, consisting of:

- a) Part 0 – Introduction;
- b) Part I – General Planning Aspects (GEN); and
- c) Part II – Air Navigation System Implementation.

2.3.5 A table for inclusion in Part I of Volume III to define a minimum set of implementation indicator(s), based on the SMART criteria (specific, measurable, achievable, relevant and time bound), for each of the 18 ASBU Block 0 modules and to include other information as deemed necessary, for use in all regions. The details related to the regional monitoring of the ASBU modules, including the design of supporting enablers (tables/databases) would be left to the PIRGs.

2.3.6 **Procedure for amendment of the eANP**

2.3.7 A revised procedure for amendment of the eANP using a web-based platform is proposed. It is to be noted that the current Council-approved procedure for amendment of the Basic ANP (with minor changes) would be applicable to the new Volume I (approval by Council) and the current

amendment procedure of the FASID (with minor changes) would be applicable to Volume II (approval by regional agreement involving the relevant PIRG). The management and amendment of Parts 0 and I of Volume III should go through a Secretariat inter-regional coordination mechanism and Part II would require approval under the responsibility of the relevant PIRG. The procedure for amendment for Volumes I, II and III is included in Appendix A to Volume I.

2.3.8 It is highlighted that the approval of the ANP template by Council includes the new procedure of amendment of the eANP. The approval of the eANP for each region, based on the approved ANP template, would be accomplished with the transfer of the corresponding information from current volumes Basic and FASID to the new volumes I and II in accordance with the procedure for amendment.

2.4 Development of the eANP on a web-based platform

2.4.1 In view of the agreed format of the eANP, it is considered that the current ANP application under SPACE (iSTARS 2.0 website) could be used as the basis for the development of the eANP web-based platform with some improvements.

2.4.2 Focal points designated by States and international organizations would be given access to the ANP web-based platform to develop and submit proposals for amendments (PfAs) to the ANP of each region concerned as per corresponding procedures for amendment and the public would be given read-only access to the ANPs.

2.4.3 The access to the eANP through the web-based platform would facilitate the consultation of the ANPs of all regions, thus providing a global view of air navigation planning. The new approach in Volumes II and III of the eANP would allow significant flexibility to States to plan while increasing the possibility to enhance coordination, particularly for States in the interface area with adjacent regions.

2.4.4 The Regional Office has sent a letter requesting States to submit national focal points contact information for the data filling to be contained in eANP. States having complied with the request are shown in **Appendix A** to this working paper.

2.5 Review of ICAO Documentation referring to Regional ANP

2.5.1 With the approval of the new ANP template, consequential amendments are required to existing ICAO documentation referring to regional ANPs to ensure harmonization.

2.6 Action plan for further development/approval of the eANP

2.6.1 With the approval by the Council of the new ANP template, the development/approval of the eANP would be in accordance with the action plan shown in **Appendix B** to this working paper.

3. Suggested action:

3.1 The Meeting is invited to:

- a) take note of the information contained in this working paper;
- b) complete or update the information requested under Appendix A;
- c) analyse the action plan and make comments as deemed relevant.

APPENDIX A

e-ANP NATIONAL FOCAL POINTS

| STATE | ADMINISTRATION | NAME | POSITION | TELEPHONE | E-MAIL |
|-------------------|---|------------------------------|--|---------------------------------------|--|
| ARGENTINA | | | | | |
| BOLIVIA | | | | | |
| BRAZIL | Departamento de Control del Espacio Aéreo - DECEA | Cristiano de Uzêda Pinto | Chief AIS Planning Section, Operations Sub-department | +55 21 2101 6936 +55 21 98269 8300 | dpln4@decea.gov.br |
| COLOMBIA | Unidad Administrativa Especial de Aeronáutica Civil - UAEAC | Nibia Lucia Morales Galindo | Aeronautical specialist, General Sub-direction | +57 1 296 2080 +57 313 333 0021 | nmorales@aerocivil.gov.co |
| CHILE | Dirección General de Aeronáutica Civil - DGAC | Alfonso de la Vega Sepúlveda | In charge of Air Navigation Section, Planning Department | +56 2 439 2952 | adelavega@dgac.gob.cl |
| ECUADOR | | | | | |
| GUYANA | | | | | |
| FR. GUIANA | | | | | |
| PANAMA | | | | | |
| PARAGUAY | | | | | |
| PERU | Dirección General de Aeronáutica Civil - DGAC | Fernando Hermoza | Air navigation technical coordinator | +51 1 615 7880 | fhermoza@mtc.gob.pe |
| SURINAME | | | | | |

| STATE | ADMINISTRATION | NAME | POSITION | TELEPHONE | E-MAIL |
|-----------|--|--------------------|--|------------------------------|--|
| URUGUAY | Dirección Nacional de Aviación Civil e Infraestructura Aeronáutica - DINACIA | Rosanna Barú | Chief of the Aeronautical Services Department | +598 2 604 0409 Int. 4461 | rbaru@dinacia.gub.uy navegacionaerea@dinacia.gub.uy |
| | | Adriana San Germán | Chief of the ATC Technical Department | +598 2 604 0408 Int. 5109 | asangerman@gmail.com |
| VENEZUELA | | | | | |

Update: 04 de noviembre de 2014

APPENDIX B

| ANP Volume | eANP activity/task | Responsible | Completion date |
|--------------------------|--|-------------------------------|------------------------|
| Vol I, II & III | Population of eANP with existing data completed | Regional Offices | September 2014 |
| Vol I, II & III | Agreement on the content of the eANP | PIRG/States | Mid 2015 |
| Vol I | Approval of Volume I of eANPs by the Council | Regional Offices/ANB | End 2015 |
| Vol II | Approval of Volume II of eANPs by regional agreement involving the relevant PIRG | Regional Offices/ PIRG/ANB | End 2015 |
| Vol III | Development and approval of Part II of Volume III by PIRG. Inclusion of Volume III on web-based platform | Regional Offices/ PIRG/ANB | Mid 2015 |
| Consequential amendments | Amendments to existing ICAO documentation related to ANPs to ensure harmonization, including the Regional Office Manual, and review of the applicability of the Uniform methodology for the identification, assessment and reporting of air navigation deficiencies to the new ANP | ANB | Mid 2015 |
