



International Civil Aviation Organization
South American Regional Office

Fifth Virtual Meeting of Directors General of Civil Aviation of the South American (SAM) Region on the Response to COVID-19
(Lima, Peru, 11 August 2021)

RV5/DGAC – IP/09
05/08/2021

Agenda Item 2: Innovation in aspects of safety, capacity and efficiency in the provision of services and navigation infrastructure in the framework of recovery

DRAFTING OF CAR/SAM REGIONAL AIR NAVIGATION PLAN, VOLUME III, AND ITS BENEFITS FOR THE MANAGEMENT OF AIR NAVIGATION SERVICES AND INFRASTRUCTURE PLANNING

(Prepared by the Secretariat)

SUMMARY

This paper presents the Secretariat's activities to assist States in the development of the CAR/SAM eANP, Volume III, as well as to standardize the understanding and practical application of the six-step approach towards performance-based planning. It is argued that the application of the GANP methodology, with strong emphasis on the management of performance indicators, will ensure safety and interoperability, as well as environmental sustainability and, at the same time, strengthen the capacity and efficiency of air navigation services and infrastructure, creating favourable conditions for the early recovery of the industry and the air navigation service providers.

Action:

As indicated in paragraph 4.1

References:

- Sixth Meeting of Air Navigation and Safety Directors of the SAM Region (ANFS/6), Lima, Peru, 24-26 June 2019; and
- GREPECAS PPRC/5 Meeting, Mexico City, 16-18 July 2019.

1. Background

1.1 The Sixth Meeting of Air Navigation and Safety Directors of the SAM Region (ANFS/6) (Lima, Peru, 24-26 June 2019) analysed the content of the Global Air Navigation Plan (GANP), Sixth Edition, the Recommendations of the ICAO Thirteenth Air Navigation Conference (AN/Conf-13) related to air navigation, as well as the current status of implementation of the national air navigation plans in the SAM Region. The Meeting agreed on the benefits of the performance-based planning indicated in the GANP and highlighted the importance of aligning the national air navigation plans with the three-volume CAR/SAM eANP. In this regard, the Meeting approved Conclusion ANFS/6-01 - *Preparation of National Air Navigation Plans* (see **Appendix A**).

1.2 AN/Conf/13 Recommendation 4.3/1, item d) indicates that ICAO:

“d) encourage the planning and implementation regional groups (PIRGs) to embrace a performance-based approach for implementation and adopt the six-step performance management process, as described in the Manual on Global Performance of the Air Navigation System (Doc 9883), by reflecting the process in Volume III of all regional air navigation plans;”

1.3 GREPECAS PPRC/5 Meeting (Mexico City, 16-18 2019) was informed that ICAO Headquarters (HQ) was working on a standardised template for Volume III of the Regional Air Navigation Plans. That Meeting approved Conclusion PPRC/05-10 - *Development of CAR/SAM eANP, Volume III, and drafting of National Air Navigation Plans*, which is intended to coordinate efforts for the development of CAR/SAM eANP, Vol. III, and for the updating to the national air navigation plans. See **Appendix B** to this paper.

2. Analysis

2.1 Volume III contains the dynamic/flexible elements of the CAR/SAM ANP and provides implementation guidelines for air navigation systems and their modernization, taking into consideration the ASBU framework, as well as the GANP technology roadmaps. Volume III may also include additional implementation guidance to supplement the material contained in Volumes I and II.

2.2 During the second half of 2020, a number of workshops and seminars were developed in the SAM Region, for the dissemination of the GANP planning methodology, the management of performance indicators and metrics, as well as the practical use of the eANP, Volume III, template provided by ICAO HQ.

2.3 Since April 2021, the GREPECAS Secretariat has been implementing the "Assistance for the development and management of the CAR/SAM ANP, Volume III" whose activities are shown in **Appendix C** to this paper. The following objectives are covered:

- a) To provide a manual for the use of the CAR/SAM ANP, Vol. III, template, to be used by CAR/SAM States during the preparation of the tables and texts of the CAR/SAM ANP, Vol. III;
- b) To standardise the understanding and practical application of the six-step approach towards performance-based planning, as stipulated in the GANP, and by the air navigation specialists of the CAR/SAM Region States in the process of filling out the tables in Volume III;
- c) To supplement the use of the GANP tools; of the AN-SPA, of the performance dashboard, etc.;
- d) To establish a new GREPECAS project to manage Volume III, that will facilitate implementation of stipulated ASBU elements and measure regional performance; and
- e) To make an orderly transition of the plans and activities under CAR/RPBANIP and SAM-PBIP into the CAR/SAM ANP, Vol. III.

2.4 The drafting of Volume III will be carried out by the representatives of the GREPECAS States, assisted by the ICAO NACC and SAM Regional Offices, and a series of teleconferences, seminars and other on-line activities should be scheduled for this purpose. State counterpart staff should be authorized to coordinate the preparation of Volume III with all stakeholders within his/her administration.

2.5 Once Volume III is prepared, it should be approved by GREPECAS for the management phase to be initiated, which should be supported by a GREPECAS programme/project aimed at developing and/or continuing the action plans for the implementation of the solutions identified within the ASBU framework.

2.6 The Volume III approved by GREPECAS shall follow the respective amendment procedures, according to the framework indicated in CAR/SAM ANP, Volume I, Appendix A, Part C.

3. **Benefits in air navigation planning**

3.1 The preparation of Volume III will generate the following benefits for the management of air navigation services and infrastructure planning:

- a) Air navigation infrastructure and services investment cost-savings as a result of improved planning;
- b) A strong involvement of the civil aviation administrations in the planning process will be promoted at regional and inter-regional level, supported by a single, harmonized methodology;
- c) Planning with emphasis on measuring improvement in terms of performance;
- d) Planning based on measurable performance objectives;
- e) Implementation of ASBU modules/elements of the GANP with cost-efficient approach and appropriate selection of regional and national priorities;
- f) The collection and preparation of air navigation performance data will be urged, to sustain the management of key performance indicators (KPIs) and enable efficient monitoring of air navigation implementation and optimization;
- g) Increase of safety, interoperability, and environmental sustainability, in the short term, while strengthening the capacity and efficiency of air navigation services and infrastructure, creating favourable conditions for the early recovery of the air navigation industry and service providers; and
- h) Facilitate States' tasks for the alignment of their national air navigation plans with the Regional and Global Plans.

4. **Action required**

4.1 The Meeting is invited to:

- a) analyse the information provided, including the contents in **Appendices A, B and C**,
- b) ratify the importance of complying with Conclusion ANFS/6-01; and
- c) Recognize the ample support required from States to the focal points and multidisciplinary working teams acting as counterparts of the Secretariat in the elaboration of CAR/SAM ANP, Volume III.

APPENDIX A

| CONCLUSION | |
|---|---|
| ANFS/6-01 | PREPARATION OF THE NATIONAL AIR NAVIGATION PLANS |
| <p>That the States:</p> <p>a) support the Secretariat in the preparation of Vol. III of the CAR/SAM e-ANP related to the SAM Region and the revision of Vol. I and II of the aforementioned document to align it to the GANP - Sixth Edition, considering the catalog of KPI contained in this document;</p> <p>b) after completing the preparation and review of the three CAR/SAM e-ANP Volumes, elaborate or, if necessary, update their PNNA, in order to align them to the GANP initiatives, including the requirements of all the areas that involve air navigation services;</p> <p>c) forward to the Secretariat the developed or updated PNNA to the ICAO South American Regional Office. no later than the second semester of 2021.</p> <p>That the Secretariat:</p> <p>d) provide technical support to the States that request it for the development of their PNNA and supervise the delivery of said plans to the ICAO South American Regional Office.</p> | <p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p> |
| <p>Why: In order to align the Regional Air Navigation Plan (e-ANP CAR/SAM) to the GANP and support the preparation and updating of the National Air Navigation Plans.</p> | |
| <p>When: Before 2022</p> | <p>Status: Approved in ANFS/6</p> |
| <p>Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> Secretariat ICAO <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Others:</p> | |

APPENDIX B

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|---|---|
| DRAFT CONCLUSION | |
| PPRC/5/10 | DEVELOPMENT OF VOLUME III OF THE CAR/SAM GANP IN PREPARATION OF NATIONAL AIR NAVIGATION PLANS |
| <p>What:</p> <p>That, in Coordination with the NACC and SAM Regional Offices,</p> <p>a) the States support the Secretariat in the preparation of Vol. III of the CAR/SAM e-ANP and the revision of Vols. I and II of the aforementioned document to align it to the GANP - Sixth Edition, considering the catalogue of KPI contained in the GANP;</p> <p>b) the States, in coordination with the NACC and SAM Regional Offices, after completing the preparation and revision of the three CAR/SAM e-ANP Volumes, elaborate or, if applicable, update their NANP, in order to align them to the GANP initiatives, including the requirements of all the areas that involve air navigation services;</p> <p>c) the States forward the developed or updated NANP to the ICAO NACC and SAM Regional Offices by the second semester of 2021;</p> <p>d) ICAO process the approval of Vol. III of the CAR/SAM e-ANP by the third quarter of 2020;</p> <p>e) ICAO, once Vol. III is approved, replace the Regional Air Navigation Plans based on performance by Vol. III of the CAR/SAM e-ANP, and present it to the PPRC/6; and</p> <p>f) ICAO provide technical support to the States that request it for the development of their NANP and supervise the delivery of said plans to the ICAO NACC and SAM Regional Offices.</p> | <p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Operational/Technical</p> |
| Why: In order to align the Regional Air Navigation Plan (e-ANP CAR/SAM) to the GANP and support the preparation and updating of the National Air Navigation Plans. | |
| When: By 2021 | Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Completed |
| Who: <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input type="checkbox"/> Other: | |

APPENDIX C**ASSISTANCE FOR THE DEVELOPMENT AND MANAGEMENT OF CAR/SAM ANP
VOLUME III (REV. 3)**

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|--------------------|--|
| RESULT | CAR/SAM ANP, Volume III, in alignment with GANP and ASBU methodology. |
| ACHIEVEMENT | Implement, under a coherent, measurable and cost-benefit approach, ASBU elements/modules for the improvement of air navigation performance in the CAR/SAM Region. |
| BENEFIT | Safe, efficient and interoperable airspace and air navigation services. Major airports with ACDM and/or demand-capacity management. Environment; generate emission reductions. |

| Activities | Objectives |
|--|--|
| Drafting of guideline for the use of ANP, Vol III, template | Ensure that States will apply the Volume III template in a homogeneous manner and in alignment with the GANP. |
| States/Territories/Organizations (STOs) workshops | Create STO teams. Provide guidelines in CAR and SAM Regions. Train in the use of tables and generate capabilities for the measurement of KPIs and/or regional metrics. |
| Development of CAR/SAM ANP, Vol III, with STP participation | Develop Volume III on the basis of CAR/SAM State/Territory/Organization deliverables. |
| Formulation of new GREPECAS programme/project “Management of CAR/SAM ANP, Vol III – GV3” | Formulate a new GREPECAS project to manage Volume III, to facilitate implementation of stipulated ASBU elements and measure regional performance. |
| Updating or superseding of GREPECAS ABCDFGH projects | Update GREPECAS ABCDFGH projects or, when appropriate, replace such projects for their undertaking by the Regional Offices. |
| Preparation for the deactivation of CAR/RPBANIP and SAM/PBIP | Preparation to deactivate CAR/RPBANIP and SAM/PBIP by completing GANP alignment. |
| Start of implementation of Volume III and modifications to projects and new GV3 management. Deactivation of RPBANIP and PBIP | Entry into force of Vol. III, deactivation of CAR/RPBANIP and SAM/PBIP. Complete alignment of CAR/SAM ANP to GANP, 6th Ed. |

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