



ICAO

International Civil Aviation Organization
North American, Central American and Caribbean Office

**Virtual workshop for the CAR Region on the preparation of Volume III of the CAR/SAM
Air Navigation Plan (ANP) (CAR/SAM/ANP-VOLIII)**
Online, 14 to 18 February 2022

Summary of Discussions

Date	14 to 18 February 2022
Location	On-line
Opening Ceremony	The Workshop was attended by 100 delegates from 18 States/Territories and one International Organization from the CAR/SAM Regions. The list of participants is shown in the Attachment .

References

- Doc 9750 - *Global Air Navigation Plan (GANP)*
- IMPLANTACIÓN Doc 9883 - *Manual on Global Performance of the Air Navigation System*
- CAR/SAM Air Navigation Plan
- Workshop on the Identification and implementation of performance indicators of air navigation systems in SAM Region (Lima, Peru, 5 to 9 August 2019) Summary.
- Summary of Discussion of the ICAO Workshop on the new version of the GANP (Mexico City, Mexico, from 17 to 21 February 2020).

Objectives

- Provide initial concepts that support the work for the establishment and implementation of a regional performance measurement system for air navigation services in the CAR/SAM Regions.
- Support the activities of the Project for the preparation of Vol. III of the CAR/SAM Air Navigation Plan (ANP).
- Harmonize national and regional activities for the implementation of Vol. III of the CAR/SAM ANP.

1. Introduction

1.1 As part of the activities to support the project for the formulation and management of Vol. III of the CAR/SAM ANP, the ICAO NACC Regional Office organized the Virtual workshop for the CAR Region on the preparation of Volume III of the CAR/SAM Air Navigation Plan (ANP) (CAR/SAM/ANP-VOLIII).

1.2 The purpose of the workshop was to provide guidance to the CAR Region States/Territories and International Organizations Points of Contact (PoCs) regarding the Project for the preparation of the CAR/SAM ANP Vol. III and involve them in the related activities.

1.3 The work scheme for this workshop was a combination of theory-practice, providing guidance on performance based planning.

1.4 The workshop was supported by the Argentine Air Navigation Company (EANA) and the Central American Corporation of Air Navigation Services (COCESNA) as benchmarks for ANS Planning for the SAM and CAR Regions, respectively. EANA had a very important role in the delivering of this workshop by leading the Module for the introduction to the air navigation performance measurement.

1.5 The workshop also served as a reference for regional pre-agreements to complete the project for the preparation of Vol. III of the CAR/SAM ANP.

2. Workshop Schedule and Activities

2.1 The workshop webpage is located at:
<https://www.icao.int/NACC/Pages/meetings-2022-vwviii.aspx>

3. Outcomes/Recommendations

3.1 Raise awareness on the CAR/SAM ANP and its importance for regional planning; also, and incorporate the follow-up of the execution of the Plan into the activities and work programmes of the different GREPECAS fora.

3.2 Carry out activities to support the implementation of a Performance Based Approach (PBA) for the different areas of air navigation and aerodromes, in order to allow the planning and implementation of a Regional Performance Framework in the CAR/SAM Regions.

3.3 Recognize the combination of prescriptive and performance elements that guide the regional planning of Air Navigation Services (ANS). Provide additional guidance for the Basic Building Blocks (BBBs) concept and support regional activities on their verification process at national and regional levels.

3.4 Continuous support to training activities on the ICAO GANP planning strategy and the Performance-Based Approach (PBA) management process for ANS planning at regional and national levels.

3.5 Organize additional activities to enhance regional Strengths, Weaknesses, Opportunities and Threats (SWOT) analysis, performance ambitions and metrics.

3.6 Automation of Key Performance Indicators (KPIs) and Key Performance Areas (KPIAs) for analysis and publication.

3.7 With the aim of standardizing the collection of data for KPIs and KPIAs on a regional basis, support the development of a computer system (automated/standardized software) that allows to collect data from the national to the regional level. This computer system would be programmed in open code and the source codes would be delivered to the States for their national adaptation. Funding would be joint through ICAO regional technical cooperation projects.

4. Accomplishments

4.1 As part of the activities of the workshop, following the GANP Performance Management Process, an exercise was carried out to exchange, in a preliminary way, information on regional priorities in air navigation, and this was the result:

4.1.1 Scope, context and general ambitions/expectations for the CAR/SAM Regions

- Scope
 - PBA to the CAR/SAM Air Navigation Plan (2022 – 2030).
- Context
 - In a Post COVID-19 environment, support aviation recovery by enabling safe air traffic growth at an increased rate.
- General ambitions/expectations
 - Regional ANS system can adjust capacity to address increased demand.

4.1.2 Opportunities, issues and (new) objectives

- Present and future opportunities and issues that require performance management attention (SWOT Analysis).
 - Strengths
 - Significant technological progress and implementation experience.
 - Good aeronautical infrastructure.
 - Human resources.
 - Weaknesses
 - Poor personnel training.
 - Increased complexity due to the required airspace interaction and different stakeholders.
 - Different levels of capacities among States/Territories/Air Navigation Service Providers (ANSPs).
 - Limited investment capabilities.
 - Limited human resources in key areas.

- Opportunities
 - Good ICAO support.
 - Good local political support.
 - Available technology.
 - Harmonization of technologies.
 - Data sharing.
 - Regional contingency plans.
 - Regional training
- Threats
 - Natural disasters and weather-related events.
 - External policies that does not consider aviation as a priority
- Performance ambitions/objectives
 - First level of priority
 - Capacity
 - Participation by the Air Traffic Management (ATM) community
 - Safety
 - Security
 - Second level of priority
 - Efficiency
 - Flexibility
 - Interoperability

4.1.3 Objectives quantification

- First level of priority
 - Capacity
 - KPI06 En-route airspace capacity
 - KPI07 En-route Air Traffic Flow Management (ATFM) delay
 - KPI09 Airport peak capacity
 - Participation by the ATM Community
 - KPI #– Improve stakeholder engagement, collaboration and coordination.
 - Safety
 - KPI#: Number of operational deviations per/number of operations.
 - Security
 - KPI#: number of events that interrupt or affect the provision of services/number of total events.
 - KPI#: number of vulnerabilities identified and solved.
 - KPI#: outage time of services caused by cyberattacks/assessed by impact.

4.2 Additional information regarding the results of the workshop.

4.2.1 This was the first exercise for the CAR Region regarding the definition of the planning scope and context. It was the consensus among participants that the results from this exercise should be considered preliminary in order to support further discussion on this subject.

4.2.2 No performance metrics were defined for the second level of priority performance objectives.



North American, Central American and Caribbean Office (NACC)
Oficina para Norteamérica, Centroamérica y Caribe (NACC)

Virtual workshop for the CAR Region on the preparation of Volume III of the CAR/SAM Air Navigation Plan (ANP) / Taller virtual para la Región CAR en preparación del Volumen III del Plan de Navegación Aérea (ANP) para las Regiones CAR/SAM (eANPVOLIII)

14 to 18 February 2022 / 14 al 18 de febrero de 2022

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