INTERNATIONAL CIVIL AVIATION ORGANIZATION



NAM/CAR/SAM Workshop on the Cyclical Review and Verification of the Basic Building Blocks (BBB) for MET and AIM

Workshop Objectives and Expected Results

ICAO - Secretariat



❑ Vision

A safe, secure and sustainable international civil aviation system that connects the world for the benefit of all nations and peoples.

❑ Mission

To lead international civil aviation as a key driver of social and economic development, while enhancing safety, security, economic development and environmental sustainability for a growing aviation system.

❑ Strategic objectives



EVERY FLIGHT IS SAFE AND SECURE



AVIATION IS ENVIRONMENTALLY SUSTAINABLE



AVIATION DELIVERS SEAMLESS, ACCESSIBLE, AND RELIABLE MOBILITY FOR ALL



NO COUNTRY LEFT BEHIND



THE INTERNATIONAL CIVIL AVIATION CONVENTION AND OTHER TREATIES, LAWS AND REGULATIONS ADDRESS ALL CHALLENGES



THE ECONOMIC DEVELOPMENT OF AIR TRANSPORT ASSURES THE DELIVERY OF ECONOMIC PROSPERITY AND SOCIETAL WELL-BEING FOR ALL

❑ Three essential aspirations

- ✓ Net Zero Carbon Emissions
- ✓ Connected Transportation System
- ✓ Zero deaths

❑ High Priority Facilitators

- ✓ ICAO Continuous Organizational Improvement
- ✓ Gender equality and attracting new talent
- ✓ Innovation
- ✓ Partnerships, resource mobilization and financial sustainability

Strategic Context

Why this Workshop?

Article 28 of the Chicago Convention - Installations and Standard Air Navigation Services and Systems

Each Contracting State undertakes, to the extent that it deems practicable, to:

To provide in its territory airports, radio services, meteorological services and other facilities and services for air navigation in order to facilitate air or international navigation, in accordance with the standards and recommended practices established from time to time in application of this Convention

Adopt and apply the appropriate standardized systems on communications procedures, codes, beaconing, signals, lighting and other methods and rules of operation that are recommended or established from time to time in application of this Agreement.

Strategic Context

Why this Workshop?

Article 28 of the Chicago Convention - Installations and Standard Air Navigation Services and Systems

Each Contracting State undertakes, to the extent that it deems practicable, to:

To collaborate in international measures taken to ensure the publication of aeronautical maps and charts, in accordance with the standards that may be recommended or established from time to time, in application of this Convention.

Strategic Context

Why this Workshop?

The Basic Building Blocks (BBBs) represent the essential elements that States must implement to ensure the safe, efficient and harmonized provision of the services of:

- Aeronautical Information Management (AIM)
- Aeronautical Meteorology (MET)

The Workshop is part of the regional strategy to strengthen the implementation and monitoring of BBBs in the CAR/SAM Region and support compliance with ICAO SARPs.

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General Objectives of the Workshop

Main Objectives

- **Present the preliminary methodology for the verification of the implementation of the AIM and MET BBBs.**
- **Review and validate the proposed verification process for regional implementation.**
- **Promote a harmonised approach between the CAR and SAM Regions.**
- **Strengthen the capacities of States to assess the effective implementation of BBBs.**
- **Identify opportunities for improvement and recommendations to consolidate a regional surveillance guide**

ICAO's Strategic Objectives

The Workshop directly contributes to the fulfillment of the strategic objectives of the ICAO Strategic Plan 2026-2050:

- **At the end of the workshop, participants will reinforce their understanding related to:**
- **The concepts and requirements associated with the AIM and MET BBBs.**
- **Identification of objective evidence for the verification of implementation.**
- **Application of a standardized evaluation process.**
- **Analysis of the implementation status of the BBBs.**
- **Prepare consistent reports for regional monitoring.**
- **To share experiences and best practices between States and organizations.**

ICAO's Strategic Objectives

The Workshop directly contributes to the fulfillment of the strategic objectives of the ICAO Strategic Plan 2026-2050:

a) Operational Safety

- **All flights are safe and secure.**

b) Efficiency and Connectivity

- **Fluid, accessible and reliable air mobility.**

c) Sustainability

Contribution to environmentally sustainable and resilient aviation.

d) No country left behind

Expected Products

Workshop Outcomes

- Preliminary method reviewed and enriched by the participants.
- Feedback to refine the BBB Surveillance Guide.
- Recommendations for the homogeneous application of the process in the CAR and SAM Regions.
- Definition of regional monitoring activities.
- Inputs for the future presentation of a consensual guide to GREPECAS

Benefits expected for States

Capacity Building

Better understanding of the requirements of Annexes 3, 4 and 15 as well as the documents and guidance of the AIM and MET areas (PANS-MET, PANS-AIM, PANS-IM, PANS-OPS, Doc. 8126, Doc 8896, Doc 10039, Doc 10203)

Ability to effectively verify the implementation of BBBs.

Recommendations for the homogeneous application of the process in the CAR and SAM Regions.

Increased preparedness for monitoring and surveillance activities.

Support for the continuous improvement of AIM and MET services.

Considerations for Future Work

Interdisciplinary Continuity and Harmonization

While this workshop focuses on the AIM and MET Basic Building Blocks(BBBs), it is important to recognize that similar initiatives are currently being developed in other areas of air navigation, such as:

- **Air Traffic Management (ATM)**
- **Search and Rescue (SAR)**
- **Aerodromes (AGA)**

Considerations for Future Work

Interdisciplinary Continuity and Harmonization

Therefore, the documents and methodologies resulting from this workshop must be kept under continuous review to ensure:

- **Harmonization between all technical areas.**
- **The consistency of the evaluation and monitoring criteria.**
- **The implementation of an integrated regional approach.**
- **Alignment with future ICAO and regional group guidance.**

The work we did during this workshop is an important step, but it does not represent the final version of the process. As BBBs are developed in ATM, SAR and AGA, it will be necessary to continue to review and adjust the documents to ensure consistency and harmonization across all domains of air navigation.

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Regional Roadmap

Next Steps and Governance

The products developed during this workshop will include:

- **Proposed verification methodology**
- **Implementation evaluation criteria**
- **Recommendations for BBB surveillance**
- **Observations and lessons learned from participating States**

Regional Roadmap

Validation Process

- Consolidation of the results of the workshop.
- Technical review by the corresponding expert groups.
- Harmonization with ATM, SAR and AGA jobs.
- Presentation of the consolidated regional proposal.
- Submission to GREPECAS for review and final approval.

Regional Roadmap

Ongoing tasks

- Continue to monitor the implementation of the BBBs.
- Hold webinars and virtual meetings with States to mature the implementation and monitoring process.
- Consolidate the regional surveillance guide.
- Maintain the continuous review of the provisions of the Annexes and associated ICAO documents in relation to BBBs
- Follow up on the findings of GREPECAS and other BBB-related groups.
- Include a Program, in GREPECAS and in the implementation groups, related to the monitoring of implantations of BBBs aligned with the ICAO Annexes and Documents, including the GANP.

BBB: Building the Foundation for the Aviation of the Future

ICAO's Basic Building Blocks (BBBs) are a key tool for the harmonized modernization of international aviation, strengthening safety, improving system efficiency and capacity, and supporting the achievement of sustainability goals. Their implementation allows States to move in a coordinated manner towards a safer, more resilient and interoperable air transport system, prepared to respond to the present and future needs of global aviation.

"ICAO's Basic Building Blocks (BBBs) are a catalyst for aviation transformation. Their implementation makes it possible to strengthen safety, improve efficiency, increase system capacity and move towards more sustainable aviation. More than individual initiatives, BBBs represent a common path for States and industry to modernize their operations in a way that is harmonized, resilient and aligned with the challenges of the future."

Thank You



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