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UNITING AVIATION

# Basic Building Block (BBB) Framework



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**Fifth Eastern Caribbean Civil Aviation Technical Group  
(E/CAR/CATG/5) Meeting (E/CAR/CATG/5)**



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# Introduction

- The Basic Building Block (**BBB**) framework outlines the foundation of any robust air navigation system.
- **BBB** are essential for services to be provided for international civil aviation in accordance with ICAO Standards.
- The essential services are: Aerodromes, Air Traffic Management, Search and Rescue, Meteorology and **Information Management**
- The **BBB** framework identifies the end users of these services as well as the assets CNS infrastructure



# Introduction

- The **BBB** is considered an independent framework and not a block of the **ASBU** framework as they represent a baseline rather than an evolutionary step.
- This baseline is defined by essential services recognized by ICAO Member States as necessary for international civil aviation to develop in a safe and orderly manner.
- Once these essential services are provided, they constitute the baseline for any operational improvement
- **BBB** framework is presented online in the GANP Portal:  
<https://www4.icao.int/ganpportal/BBB>



# BBB Verification

- It is important to highlight on verifying the implementation of the essential air navigation services outlined in the **BBB** framework as the capability of the States to oversight these services is covered by the ICAO USOAP
- To avoid duplications and to align global and regional planning, the process for verifying the implementation of these essential services should be embedded within the methodology for the identification of deficiencies against the regional air navigation plans
- If these essential services are not being delivered, ICAO, upon request of a State, provides the necessary technical assistance to address the needs as identified within the process.
- States need to apply the implementation of the **BBBs** through their national air navigation plans as a strategic part of their national aviation planning framework.



## BBB Framework:

- METEOROLOGICAL INFORMATION
- AERONAUTICAL INFORMATION
- SEARCH AND RESCUE
- AIR TRAFFIC MANAGEMENT
- AERODROME OPERATIONS



## MET References

- Annex 3: Meteorological Service for International Air Navigation
- Doc 8896: Manual of Aeronautical Meteorological Practice
- Doc 9873: Manual on the Quality Management System for the Provision of Meteorological Service to International Air Navigation
- Doc 9837: Manual on Automatic Meteorological Observing Systems at Aerodromes
- Doc 10003: Manual on the Digital Exchange of Aeronautical Meteorological Information
- Doc 9817: Manual on Low-level Wind Shear
- Doc 9691: Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds
- Doc 9328: Manual of Runway Visual Range Observing and Reporting Practices
- Doc 9377: Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services
- Doc 9766: Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List



## AIS References

- Annex 15: Aeronautical Information Services
- Annex 4: Aeronautical Charts
- PANS-AIM (Doc 10066): Aeronautical Information Management
- PANS-OPS (Doc 8168): Aircraft Operations
- Doc 8126: Aeronautical Information Services Manual



## SAR References

- Annex 11: Air Traffic Services
- Annex 12: Search and Rescue
- PANS-ATM (Doc 4444): Air Traffic Management
- Doc 9731: IAMSAR Manual - International Aeronautical and Maritime Search and Rescue Manual



# ATM References

- Annex 11: Air Traffic Services
- Annex 4: Aeronautical Charts
- PANS-ATM (Doc 4444): Air Traffic Management
- PANS-OPS (Doc 8168): Aircraft Operations



## AO References

- Annex 14: Aerodromes Volume I — Aerodrome Design and Operations
- Annex 10: Aeronautical Telecommunications Volume I — Radio Navigation Aids
- Doc 9157: Aerodromes Design Manual
- Doc 9184: Airport Planning Manual
- Doc 9137: Airport Services Manual
- Doc 9476: Manual of Surface Movement Guidance and Control Systems (SMGCS)
- Doc 9830: Advanced Surface Movement Guidance and Control Systems (A-SMGCS) Manual
- Doc 9870: Manual on the Prevention of Runway Incursions
- Doc 8071: Manual on Testing of Radio Navigation Aids
- Doc 9774: Manual on Certification of Aerodromes
- PANS-Aerodromes(Doc 9981): Aerodromes



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