

BELIZE Air Navigation Plan

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1. Introduction

This document is Belize's State Air Navigation Plan (ANP) describing the plan and status of aviation technology implementation. The background of the Belize ANP and the environment of our air navigation system are presented along with the method and process to evaluate and monitor aviation technology implementation. The regulatory authority of Belize is the Belize Department of Civil Aviation known as the BDCA.

1.1 Background

The ICAO Global Air Navigation Plan (Doc 9750, GANP) provides ICAO's vision to achieve sustainable growth of the global civil aviation system. It also presents all States with a comprehensive planning tool supporting a harmonized global air navigation system. The GANP is an overarching framework that includes key civil aviation policy principles to assist ICAO Regions and States with the preparation of their Regional and State Air Navigation Plans (ANPs).

Planning and Implementation Regional Groups (PIRGs) are expected to develop the regional ANPs reflecting the regional requirements. GANP obligates States to map their individual or regional programmes against the harmonized GANP, but provides them with far greater certainty of investment. GANP requires active collaboration among States through the PIRGs in order to coordinate initiatives within applicable regional ANPs.

The GANP introduces the Aviation System Block Upgrades (ASBU) methodology. The ASBU methodology and its description of future aviation capabilities define programmatic and flexible global systems engineering approaches allowing all States to advance their air navigation capacities based on their specific operational requirements.

To this extent, the North American, Central American and Caribbean (NACC) Regional Office (RO), has published the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (RPBANIP, v3.1 in April 2014) aligning the activities and strategies with the ICAO ASBU methodology.

This document is the ANP for Belize aligning activities and strategies to the GANP and RPBANIP. The information contained in the Belize ANP is related mainly to:

- Planning: objectives set, priorities and targets planned at the state level
- Implementation monitoring and reporting: monitoring the progress of implementation towards targets planned. This information should be used for reporting purposes (i.e.: global and regional air navigation reports and performance dashboards); and/or
- Guidance: providing state guidance material for the implementation of specific system/procedures in a harmonized manner.

The Belize ANP will be used as a tool for planning, monitoring, and reporting the status of implementation of the aviation capabilities.

1.2 Environment

The environments of Air Navigation of Belize, such as authority, airspace, airports, and air traffic are described in this section.

1.2.1 Authority of Belize

The Belize Department of Civil Aviation (BDCA) was established by Belize Civil Aviation Act Chapter 239 of the Substantive Laws of Belize. Its Mission is to promote a safe, efficient and expeditious movement of domestic and international air transportation in Belize through the provisions of proper regulatory procedures in accordance with the air navigation regulations in force and the Standards and Recommended Practices of the International Civil Aviation Organization.

The BDCA is responsible for regulating all civil aviation matters and will be responsible for updating the State's ANP. The BDCA organogram is shown in Figure 1.2.1. Who does what? Who has what responsibilities? Its operation is performed by a highly motivated work force contributing to the sustainable, social and economic development of Belize.

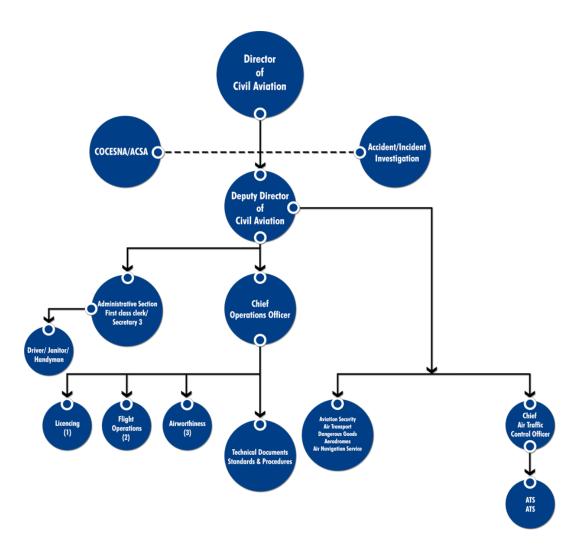


Figure 1.2.1: Organizational Structure of Belize Department of Civil Aviation

1.2.2 Airspace

Belize is located within the Central America Flight Information Region (FIR) that is managed by COCESNA and operated by CENAMER Area Control Centre/Flight Information Center in the Upper

FIR. The BDCA manages the Belize Lower Flight Information Region (FIR). Refer to Figure 1.2.2 for the airspace of Belize and the Central American FIR.



Figure 1.2.2: CENAMER FIR and Belize

1.2.3 The Aerodrome in Belize used for international aircraft operations.

On major aerodrome in Belize is the Philip S. W. Goldson International Airport. Its ICAO Four Letter Indicator is MZBZ. This aerodrome is listed in the ICAO's Regional ANP titled, "Caribbean and South American Air Navigation Plan, Volume I (dated October 2015), Table AOP I-1, International Aerodromes Required in the CAR/SAM Regions". MZBZ has the capacity of an average of 15 air traffic movements per hour and on peak periods, an average of 25 flights per hour.

unway information on wizh					
	Runway 07	Runway 25			
Length x Width	9678 ft x 150 ft	9678 ft x 150 ft			
Surface Type	Concrete	Concrete			
TDZ-Elev	15 ft	15 ft			
Lighting	Edge	Edge			
Visual Aids	PAPIs	PAPIs			
Displaced Threshold	Nil	Nil			

Runway Information on MZBZ

1.2.4 Traffic Forecast

Number of typical daily operation (arrivals/departures) at the Philip S. W. Goldson International Airport (MZBZ) are 25/25 (total of 100 movements in average). The RPBANIP forecasted that average annual growth of air traffic in the Central American region will increase 5.9% during 2011-2031. The BDCA believes that this overall regional forecast of annual increase of 5.9% is almost in line with Belize's forecast. Estimated daily operations at MZBZ are shown in Tables 1.2.4a and 1.2.4b applying the increase forecasts to each year from 2018 to 2027.

Year	MZBZ
2018	100
2019	106
2020	112

2021	119
2022	126
2023	133
2024	141
2025	149
2026	158
2027	168

1.3 Planning Methodology

Guided by the GANP and RPBANIP, the State planning process starts by identifying the State responsible ATM areas, major traffic flows and international aerodromes. An analysis of this data leads to the identification of opportunities for performance improvement. Available technologies and ASBU Elements are evaluated to identify which Elements best provide the needed operational improvements. Depending on the complexity of the selected technology or Elements, additional planning steps may need to be undertaken including financing and training needs. Finally, the Belize ANP was developed for the deployment of improvements and supporting requirements. This is an iterative planning process which may require repeating several steps until a final plan with specific regional targets is in place. This planning methodology requires full involvement of States, service providers, airspace users and other stakeholders, thus ensuring commitment by all for implementation.

Considering that some of the ASBU Modules contained in the GANP are specialized packages of implementable capabilities, called Elements, that may be applied where specific operational requirements or corresponding benefits exist, Belize has decided how each ASBU Element would fit into national and in the Central American and other regional plans.

In establishing and updating the implementation priorities detailed in the Belize ANP, due consideration is being given to the safety priorities set out in the Global Aviation Safety Plan (GASP) and the NAM/CAR regional safety strategy. The BDCA will establish its own air navigation objectives, priorities and targets to meet its individual needs and circumstances in line with the global and regional air navigation objectives, priorities, and targets.

1.4 Air Navigation Planning Process

The air navigation planning process prescribes evaluation, implementation, reviewing, reporting, and monitoring activities. It is recommended to conduct the process on a cyclical, annual basis. An Air Navigation Reporting Form (ANRF) is a tool to monitor and report the implementation status of capabilities. The Belize Department of Civil Aviation's ANRF is a customized tool for the application of setting planning targets, monitoring implementation, and identifying challenges, measuring implementation/performance and reporting. The ANRF reflects selected key performance areas as defined in the Manual on Global Performance of the Air Navigation System (ICAO Doc 9883).

Many of the future capabilities are described in terms of ASBU Elements. Some capabilities are specific to the need of the Central American / Caribbean Regions and/or the State needs. These specific needs are described as Regional Aviation System Improvements (RASI) and State Aviation System Improvements (SASI). Both Analysis and Work Flow and ANRF are useful to manage the implementation status of ASBU, RASI, and SASI capabilities.

1.4.1 Analysis and Work Flow Process

Figure 1.4.1 depicts the workflow for analysing and implementing ASBU Elements. This flow process should be applied to each of the ASBU Elements. If the Element is applicable to an airport, each airport needs to be evaluated through this flow process. This same flow process is applicable to RASI and SASI.

The significance of each step in the workflow as it pertains to regional planning is as follows:

- Analysis Not Started The requirement to implement this ASBU Element has not yet been assessed
- Analysis In Progress A Need Analysis as to whether or not this ASBU Element is required, is in progress
- N/A The ASBU Element is not required
- **Need** The Need Analysis concluded that the ASBU Element is required, but planning for the implementation has not yet begun
- Planning Implementation of this ASBU Element is planned, but not yet started
- **Developing** Implementation of this ASBU Element is in the development phase, but not yet operational
- **Partially Implemented** Implementation of this ASBU Element is partially completed and/or operational but all planned implementations are not yet complete
- **Implemented** Implementation of this ASBU Element has been completed and/or is fully operational everywhere the need was identified

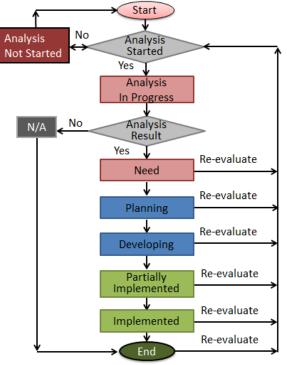


Figure 1.4.1: Analysis and Work Flow

The Need Analysis of ASBU Elements will identify which ASBU Elements are required. In this context, "required" means that the benefits estimated from the implementation would justify the associated implementation costs, or, the potential safety benefits are deemed to justify the implementation costs. The implementation status of ASBU Elements which are not required should be indicated as "N/A", meaning "not applicable".

The analysis and implementation status determined in accordance with the above is reflected in the applicable ANRFs and in the ASBU Implementation Status Tables.

1.4.2 Monitoring and Reporting Results

Monitoring and reporting results will be analyzed by the Regions, States and the ICAO Secretariat to steer the air navigation improvements, take corrective actions and review the allocated objectives, priorities and targets if needed. The results will also be used by ICAO and aviation partner stakeholders to develop the annual Global Air Navigation Report. The report results will provide an opportunity for the international civil aviation community to compare progress across different ICAO regions in the establishment of air navigation infrastructure and performance-based procedures. The reports will also provide the ICAO Council with detailed annual results on the basis of which tactical adjustments will be made to the performance framework work programme, as well as triennial policy adjustments.

The information provided in Belize's ANRFs will be periodically reviewed and updated if subsequent analysis results in a change to the applicability of any ASBU Elements, whether or not they were selected.

- > The explanation of ANRF is provided in **Appendix A**.
- The customized Belize's ASBU Air Navigation Reporting Form Templates are provided in Appendix B.
- > The Belize's RASI and SASI Air Navigation Reporting Form Templates are provided in Appendix C.

1.5 Problem Identification

To provide and promote safe and efficient aviation services to the customers, it is important to resolve ongoing challenges that hindering the mission. It is also important to anticipate and address the potential problems in the future.

1.5.1 Existing Problems

The demands for MZBZ are only expected to increase in the future. The current infrastructure at this airport, notwithstanding upgrades and expansions over the years, does not adequately meet peak capacity demand. The solution requires a huge investment in airport infrastructure. This includes airport terminal development, runway, taxiway, apron and turning pad rehabilitation and construction of an additional taxiway, total drainage redevelopment and continuous modernization of communication, navigation, and surveillance equipment (e.g. Performance Based Navigation procedures (PBN). The formal implementation of Standard Instrument Departure procedures (SIDs) and Standard Arrivals (STARs) will improve on the safety, efficiency and management of airspace capacity.

In addition, airport operations need to be improved by introducing capabilities such as Airport Collaborative Decision Making (ACDM). To support airport operations, having accurate and timely weather and aeronautical information is essential. Information such as aerodrome warnings and wind shear warnings/alerts will also increase safety of operations. Securing quality data should also be accomplished by introducing the Quality Management System (QMS) to both weather and aeronautical data.

A fundamental component which is of critical concern, is the availability of human resource to meet the wide-ranging needs of airport operations. The provision of relevant training for human resource is paramount.

1.5.2 Future Problems

Anticipating heavier demand at the MZBZ airports, the introduction of a Ground Based Argumentation System (GBAS) landing system procedure would be effective however more analysis for this will be required. It is not being heavily considered now.

The human resource issues, if not addressed in tandem with the infrastructure and procedure development, could result in deficient service provision and delivery. Human resource acquisition and development must coincide with the infrastructure and procedure development.

2. Belize's Aviation System Block Upgrade (ASBU) Implementation Status

The status of ASBU implementation is provided in this section. Though there are Block 0 to Block 4 (B0, B1, B2, and B3), only B0 capacities in some instances are already implemented however more Elements are foreseen to be implemented with supporting documents such as standards, procedures, specifications, and training materials. ICAO will provide supporting documents for B1 in 2019, B2 in 2025, and B3 in 2031.

2.1 ASBU Block 0 Implementation Metrics, Targets, and Status

ASBU B0 Implementation Targets and Status are presented in this section. BDCA considers one airport, the Philip S. W. Goldson International Airport (MZBZ) for airport oriented Elements.

2.1.1 ASBU B0 Implementation Metrics and Targets

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks		
	Performance Improvement Area 1: Airport Operations					
ACDM	1. Interconnection between aircraft operator & ANSP systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i> 	B0-ACDM-1 Target 1: Assess by Dec 2018 a. No b. TBD B0-ACDM-1 Target 2: c. TBD	Status – Analysis not Started		
	2. Interconnection between aircraft operator & airport operator systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	 B0-ACDM-2 Target 1: a. Assessed in Mar 2018 b. None B0-ACDM-2 Target 2: c. None 	Status – N/A		
	3. Interconnection between airport operator & ANSP systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	B0-ACDM-3 Target 1: Assess by Dec 2018 a. No b. TBD B0-ACDM-3 Target 2: c. TBD	Status – Analysis not Started		

Table 2.1.1 provides the ASBU B0 Implementation Metrics, Targets, and Progress for each B0 Element.

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	4. Interconnection between airport operator, aircraft operator & ANSP systems to share surface operations information	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i> 	B0-ACDM-4 Target 1: Assess by Dec 2018 a. No b. TBD B0-ACDM-4 Target 2: c. TBD	Status – Analysis not Started
	5. Collaborative departure queue management	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	B0-ACDM-5 Target 1: Assess by Dec 2018 a. No b. TBD B0-ACDM-5 Target 2: c. TBD	Status – Analysis not Started
АРТА	1. PBN approach procedures with vertical guidance to LNAV/VNAV minima	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	 B0-APTA-1 Target 1: Assessed in Mar 2018 a. Yes b. 1 (MZBZ) B0-APTA-1 Target 2: Implemented in Aug 2010 c. 1 but partially implemented 	Status – partially Implemented
	2. PBN approach procedures with vertical guidance to LPV minima	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	B0-APTA-2 Target 1: Assess by Dec 2018 a. No b. TBD B0-APTA-2 Target 2: c. TBD	Status – Analysis not started
	3. PBN Approach Procedures without vertical guidance (LP, LNAV minima; using SBAS)	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	B0-APTA-3. Target 1: Assessed in Mar 2018 a. Yes b. 1 (MZBZ) B0-APTA-3 Target 2: Implemented in Dec 2016 c. 1 but partially implemented	Status – partially Implemented
	4. GBAS Landing System (GLS) Approach procedures	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i> 	B0-APTA-4. Target 1: a. Assessed in Mar 2018 b. None B0-APTA-4. Target 2: c. None	Status – N/A
RSEQ	1. AMAN via controlled time of arrival to a reference fix	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i> 	B0-RSEQ-1. Target 1: Assessed in Mar 2018 a. Yes b. None B0- RSEQ-1 Target 2: c. N/A	Status – N/A
	2. Departure management	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	B0-RSEQ-2. Target 1: Assessed in Mar 2018 a. Yes b. None B0-RSEQ-2. Target 2: c. N/A	Status – N/A

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	3. Departure flow management	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i> 	B0-RSEQ-3. Target 1: Assessed in Mar 2018 a. Yes b. None B0-RSEQ-3. Target 2: c. N/A	Status – N/A
	4. Point merge	None, 1 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	 B0-RSEQ-4. Target 1: Assessed in Mar 2018 a. Yes b. None B0-RSEQ-4. Target 2: c. N/A 	Status – N/A
SURF	1. A-SMGCS with at least one cooperative surface surveillance system	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1	B0-SURF-1. Target 1: Assessed in Mar 2018 a. Yes b. None B0-SURF-1. Target 2: c. N/A	Status – N/A
	2. Including ADS-B APT as an element of A-SMGCS	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	B0-SURF-2. Target 1: Assessed in Mar 2018 a. Yes b. None B0-SURF-2. Target 2: c. N/A	Status – N/A
	3. A-SMGCS alerting with flight identification information	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1	 B0-SURF-3. Target 1: Assessed in Mar 2018 a. Yes b. None B0-SURF-3. Target 2: c. N/A 	Status – N/A
	4. EVS for taxi operations	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	 B0-SURF-4. Target 1: Assessed in Mar 2018 a. Yes b. None B0-SURF-4. Target 2: c. N/A 	Status – N/A
	5. Airport vehicles equipped with transponders	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	 B0-SURF-5. Target 1: Assessed in Mar 2018 a. Yes b. None B0-SURF-5. Target 2: c. N/A 	Status – N/A
WAKE	1. New PANS- ATM wake turbulence categories and separation minima	ICAO has not developed new minima.	N/A	Status – N/A

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	2. Dependent diagonal paired approach procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i> 	B0-WAKE-2. Target 1: Assessed in Mar 2018 a. Yes b. None B0-WAKE-2. Target 2: c. N/A	Status – N/A
	3. Wake independent departure and arrival procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	 B0-WAKE-3. Target 1: Assessed in Mar 2018 a. Yes b. None B0-WAKE-3. Target 2: c. N/A 	Status – N/A
	4. Wake turbulence mitigation for departures procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	B0-WAKE-4. Target 1: Assessed in Mar 2018 a. Yes b. None B0-WAKE-4. Target 2: c. N/A	Status – N/A
	5. 6 wake turbulence categories and separation minima	 Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	B0-WAKE-5. Target 1: Assessed in Mar 2018 a. Yes b. None B0-WAKE-5. Target 2: c. N/A	Status – N/A
	Perf	formance Improvement Area 2: Globally Interop	erable Systems and Data	
AMET	1. WAFS	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-AMET-1.Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-AMET-1.Target 2: Implemented in Jan 2000 c. Yes	Status – Implemented
	2. IAVW	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	C. TCS B0-AMET-2. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-AMET-2. Target 2: c. c. Yes	Status – Implemented
	3. TCAC forecasts	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	BO-AMET-3. Target 1: Assessed in Mar 2018 a. Yes b. Yes BO-AMET-3.Target 2: Implemented in Jan 2000 c. Yes	Status – Implemented
	4. Aerodrome warnings	 Number of aerodromes to be considered:1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	 b. 1 b. 1 B0-AMET-4. Target 1: Assessed in Mar 2018 a. Yes b. 1 B0-AMET-4. Target 2: Implement by Dec 2019 c. 1 	Status – Implemented

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	5. Wind shear warnings and alerts	Number of aerodromes to be considered: 1 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1	 B0-AMET-5. Target 1: Assessed in Mar 2018 a. Yes b. 1 B0-AMET-5. Target 2: Implement by Dec 2019 c. 1 	Status – Implemented
	6. SIGMET	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-AMET-6. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-AMET-6. Target 2: c. N/A	Status – Implemented
	7. Other OPMET information (METAR, SPECI and/or TAF)	Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i>	 B0-AMET-7. Target 1: Assessed in Mar 2018 a. Yes b. 1 B0-AMET-7.Target 2: Implemented in Jan 2000 c. 1 	Status – Implemented
	8. QMS for MET	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-AMET-8. Target 1: Assessed in Dec 2016 a. Yes b. Yes B0-AMET-8. Target 2: Implement by Dec 2019 c. No	Status – Analysis in progress. The development of Manuals and post certification is foreseen in 2019.
DATM	1. Aeronautical Information Exchange Model (AIXM)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-DATM-1. Target 1: Assessed in 2017 a. Yes b. Yes B0-DATM-1. Target 2: Implement in 2018 c. Yes	Status – Partially Implemented Full implementation is expected in September 2018.
	2. eAIP	 a. Have we assessed the need? <i>Yes or No</i> b. Do we need this capability? <i>Yes or No</i> c. Have we implemented the capability? <i>Yes or No</i> 	 B0-DATM-2. Target 1: Assessed in 2017 a. Yes b. Yes B0-DATM-2. Target 2: Implemented in 2018 c. Yes 	Status – Partially Implemented
	3. Digital NOTAM	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	C. ICS B0-DATM-3. Target 1: Assess by Dec 2020 a. No b. TBD B0-DATM-3. Target 2: c. c. TBD	Status - Analysis in Progress
	4. eTOD	 Number of aerodromes to be considered: 1 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>None, 1</i> c. How many aerodromes implemented the capability? <i>None, 1</i> 	B0-DATM-4. Target 1: Assess by 2019 a. No b. TBD B0-DATM-4. Target 2: Implement by TBD c. TBD	Status - Analysis in Progress
	5. WGS-84	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-DATM-5. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-DATM-5. Target 2: Implemented in 2016 c. Yes	Status – Implemented

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	6. QMS for AIM	a. Have we assessed the need?	B0-DATM-6. Target 1:	Status - Analysis in
		Yes or No	Assess by Dec 2019	Progress
		b. Do we need this capability?	a. No	
		Yes or No	b. TBD	
		c. Have we implemented the capability?	B0-DATM-6. Target 2:	
		Yes or No	Implement by Dec 2019 a. TBD	
FICE	1. AIDC to provide	a. Have we assessed the need?	B0-FICE-1. Target 1:	Status – Partially
IICL	initial flight data to	Yes or No	Assessed in 2018	Implemented
	adjacent ATSUs	b. Do we need this capability?	a. Yes	Impromotiou
	j	Yes or No	b. Yes	
		c. Have we implemented the capability?	B0-FICE-1. Target 2:	
		Yes or No	c. Yes (Target 2018)	
	2. AIDC to update	a. Have we assessed the need?	B0-FICE-2. Target 1:	Status - Partially
	previously	Yes or No	Assessed in 2018	Implemented
	coordinated flight	b. Do we need this capability?	a. Yes	
	data	Yes or No	b. Yes	
		c. Have we implemented the capability?	B0-FICE-2. Target 2:	
		Yes or No	c. Yes (Target 2018)	
	3. AIDC for control	a. Have we assessed the need?	B0-FICE-3. Target 1:	Status – Partially
	transfer	Yes or No	Assessed in 2018	Implemented
		b. Do we need this capability?	a. Yes	
		Yes or No	b. Yes	
		c. Have we implemented the capability?	B0-FICE-3. Target 2:	
		Yes or No	c. Yes (Target 2018)	
	4. AIDC to transfer	a. Have we assessed the need?	B0-FICE-4. Target 1:	Status - N/A
	CPDLC logon	Yes or No	Assessed in Mar 2018	
	information to the	b. Do we need this capability?	a. No	
	Next Data Authority	Yes or No	b. No	
		c. Have we implemented the capability? Yes or No	B0-FICE-4. Target 2: c. N/A	
	Per	formance Improvement Area 3: Optimum Ca		
ACAS		a. Have we assessed the need?		Status - N/A
	1. ACAS II (TCAS	a. Have we assessed the need?	B0-ACAS-1. Target 1:	Status - IN/A
iii ciiio	version 7.1)	Yes or No	Assessed in Mar 2018	Status - N/A
neno			5	Status - IV/A
nens		Yes or No b. Do we need this capability? Yes or No	Assessed in Mar 2018 a. Yes b. No	Status - IV/A
i cho		 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2:	Status - N/A
	version 7.1)	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A	
	version 7.1) 2. Auto Pilot/Flight	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1:	Status - N/A
	version 7.1) 2. Auto Pilot/Flight Director (AP/FD)	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018	
	version 7.1) 2. Auto Pilot/Flight	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes	
	version 7.1) 2. Auto Pilot/Flight Director (AP/FD)	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No	
	version 7.1) 2. Auto Pilot/Flight Director (AP/FD)	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2:	
	version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A	Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1:	
	version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018	Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes	Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No b. Do we need this capability? Yes or No b. Do we need this capability? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No	Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2:	Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A	Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ASEP-1. Target 1:	Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018	Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ASEP-1. Target 1: Assessed in Mar 2018 a. Yes	Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No b. Do we need this capability? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 2: c. N/A B0-ACS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACS-1. Target 1: Assessed in Mar 2018 a. Yes b. No	Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ASEP-1. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 2: b. No B0-ASEP-1. Target 2:	Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 1. ATSA-AIRB 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 2: c. N/A	Status - N/A Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ASEP-1. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 2: c. N/A B0-ASEP-1. Target 2: c. N/A B0-ASEP-2. Target 1:	Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 1. ATSA-AIRB 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 2: c. N/A B0-ASEP-2. Target 1: Assessed in Mar 2018	Status - N/A Status - N/A Status - N/A
	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 1. ATSA-AIRB 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No b. Do we need this capability? Yes or No b. Do we need this capability? 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ASEP-1. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 2: c. N/A B0-ASEP-2. Target 1: Assessed in Mar 2018 a. Yes	Status - N/A Status - N/A Status - N/A
ASEP	 version 7.1) 2. Auto Pilot/Flight Director (AP/FD) TCAS 3. TCAS Alert Prevention (TCAP) 1. ATSA-AIRB 	 Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No c. Have we implemented the capability? Yes or No a. Have we assessed the need? Yes or No a. Have we assessed the need? Yes or No 	Assessed in Mar 2018 a. Yes b. No B0-ACAS-1. Target 2: c. N/A B0-ACAS-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-2. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ACAS-3. Target 2: c. N/A B0-ACAS-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 1: Assessed in Mar 2018 a. Yes b. No B0-ASEP-1. Target 2: c. N/A B0-ASEP-2. Target 1: Assessed in Mar 2018	Status - N/A Status - N/A Status - N/A

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
ASUR	1. ADS-B	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-ASUR-1. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-ASUR-1. Target 2: Implement by 2020 c. No	Status – Partially Implemented Technology is implemented and waiting for ICAO SURP.
	2. Multilateration (MLAT)	 Number of aerodromes to be considered: 2 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? None, 1 c. How many aerodromes implemented the capability? None, 1 	B0-ASUR-2. Target 1 Assessed in Mar 2018 a. Yes b. No B0-ASUR-2. Target 2: c. N/A	Status - N/A
FRTO	1. CDM incorporated into airspace planning	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FRTO-1. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-FRTO-1. Target 2: Implemented by 2019 c. No	Status – Partially Implemented
	2. Flexible Use of Airspace (FUA)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FRTO-2. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-FRTO-2. Target 2: c. Yes (2016)	Status – Implemented
	3. Flexible route systems	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FRTO-3. Target 1 Assessed in Mar 2018 a. Yes b. No B0-FRTO-3. Target 2: c. N/A	Status - N/A
	4. CPDLC used to request and receive re-route clearances	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-FRTO-4. Target 1: Assessed in Mar 2018 a. Yes b. No B0-FRTO-4. Target 2: c. N/A	Status - N/A
NOPS	1. Sharing prediction of traffic load for next day	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 B0-NOPS-1. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-NOPS-1. Target 2: Implement by Dec 2019 c. No 	Status – Planning
	2. Proposing alternative routings to avoid or minimize ATFM delays	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-NOPS-2. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-NOPS-2. Target 2: c. N/A	Status – Planning
OFTL	1. ITP using ADS-B	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-OFTL-1. Target 1: Assessed in Mar 2018 a. Yes b. No B0-OFTL-1. Target 2: c. N/A	Status - N/A
SNET	1. Short Term Conflict Alert (STCA)	 a. Have we assessed the need? Yes or No b. Do we need this capability? Yes or No c. Have we implemented the capability? Yes or No 	B0-SNET-1. Target 1: Assessed in Mar 2018 a. Yes b. Yes B0-SNET-1. Target 2: c. Yes (2017)	Status - Implemented

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
	2. Area Proximity Warning (APW)	a. Have we assessed the need? Yes or No	B0-SNET-2. Target 1: Assessed in Mar 2018	Status - Implemented
		b. Do we need this capability?	a. Yes	
		Yes or No	b. Yes	
		c. Have we implemented the capability?	B0-SNET-2. Target 2:	
	3. Minimum Safe	Yes or No a. Have we assessed the need?	c. Yes (2017) B0-SNET-3. Target 1:	Status - Implemented
	Altitude Warning	Yes or No	Assessed in Mar 2018	Status - Implemented
	(MSAW)	b. Do we need this capability?	a. Yes	
	· · · ·	Yes or No	b. Yes	
		c. Have we implemented the capability?	B0-SNET-3. Target 2:	
	4. Medium Term	Yes or No a. Have we assessed the need?	c. Yes (2017) B0-SNET-4. Target 1:	Status - Implemented
	Conflict Alert	Yes or No	Assessed in Mar 2018	~·····
	(MTCA)	b. Do we need this capability?	a. Yes	
		Yes or No	b. Yes	
		c. Have we implemented the capability? Yes or No	B0-SNET-4. Target 2: c. Yes (2017)	
		Performance Improvement Area 4: Efficien		
ССО	1. Procedure	Number of aerodromes to be considered: 1	B0-CCO-1. Target 1:	Status – Partially
	changes to facilitate	a. Have we assessed the need?	Assessed in Mar 2018	Implemented
	CCO	Yes or No	a. Yes	
		b. How many aerodromes need this capability?	b. 1	
		<i>None, 1</i> c. How many aerodromes implemented the	B0-CCO-1. Target 2: Implement by 2019	
		capability?	c. None	
		None, 1		
	2. Route changes to	Number of aerodromes to be considered: 1	B0-CCO-2. Target 1:	Status - Partially
	facilitate CCO	a. Have we assessed the need?	Assessed in Mar 2018	Implemented
		<i>Yes or No</i> b. How many aerodromes need this capability?	a. Yes b. 1	
		None, 1	B0-CCO-2. Target 2:	
		c. How many aerodromes implemented the	Implement by 2019	
		capability? None, 1	c. None	
	3. PBN SIDs	Number of aerodromes to be considered: 1	B0-CCO-3. Target 1:	Status – Partially
		a. Have we assessed the need?	Assessed in Mar 2018	Implemented
		Yes or No	a. Yes	
		b. How many aerodromes need this capability? <i>None</i> , 1	b. 1 B0-CCO-3. Target 2:	
		c. How many aerodromes implemented the	Implement by Dec 2019	
		capability?	Implement by 2019	
		None, 1	c. None	
CDO	1. Procedure	Number of aerodromes to be considered: 1	B0-CDO-1. Target 1:	Status – Partially
	changes to facilitate CDO	a. Have we assessed the need? Yes or No	Assessed in Mar 2018 a. Yes	Implemented
	CDO	b. How many aerodromes need this capability?	b. 1	
		None, 1	B0-CDO-1. Target 2:	
		c. How many aerodromes implemented the	Implement by 2019	
		capability?	c. None	
	2. Route changes to	<i>None, 1</i> Number of aerodromes to be considered: 1	B0-CDO-2. Target 1:	Status – Partially
	facilitate CDO	a. Have we assessed the need?	Assessed in Mar 2018	Implemented
		Yes or No	a. Yes	Implemented
		b. How many aerodromes need this capability?	b. 1	
		None, 1	B0-CDO-2. Target 2:	
		c. Have we implemented the capability? <i>None, 1</i>	Implement by 2019 c. None	
	3. PBN STARs	None, 1 Number of aerodromes to be considered: 1	B0-CDO-3. Target 1:	Status – Partially
		a. Have we assessed the need?	Assessed in Mar 2018	Implemented
		Yes or No	a. Yes	r
		b. How many aerodromes need this capability?	b. 1	
		None, 1	B0-CDO-3. Target 2:	
		c. How many aerodromes implemented the capability?	Implement by 2019 c. None	
	1	None, 1		

Block 0 Modules	Elements	Metrics	Targets	Status & Remarks
ТВО	1. ADS-C over oceanic and remote	a. Have we assessed the need? <i>Yes or No</i>	B0-TBO-1. Target 1: Assessed in Mar 2018	Status - N/A
	areas	 b. How many aerodromes need this capability? <i>Yes or No</i> c. Have we implemented the capability? <i>Yes or No</i> 	a. Yes b. No B0-TBO-1. Target 2: c. N/A	
	2. CPDLC over continental areas	 a. Have we assessed the need? Yes or No b. How many aerodromes need this capability? Yes or No c. Have we implemented the capability? Yes or No 	 c. N/A B0-TBO-2. Target 1: Assessed in Mar 2018 a. Yes b. No B0-TBO-2. Target 2: c. N/A 	Status - N/A
	3. CPDLC over oceanic and remote areas	 a. Have we assessed the need? <i>Yes or No</i> b. How many aerodromes need this capability? <i>Yes or No</i> c. Have we implemented the capability? <i>Yes or No</i> 	B0-TBO-3. Target 1: Assessed in Mar 2018 a. Yes b. No B0-TBO-3. Target 2: c. N/A	Status - N/A

Table 2.1.1: ASBU B0 Implementation Metrics and Targets

2.1.2 ASBU B0 Implementation Status Summary

The summary of ASBU B0 implementation status is provided in the Table 2.1. The details of ASBU B0 implementation status is recorded using ANRFs and provided in Appendix D.

			Need A	analysis	6	-		ation St t is need	
Module	Elements	Not Started	In Progress	Need	N/A	Planning	Developing	Partially Implemented	Implemented
	Performance Improvement Area 1: Airpo	ort Ope	rations						
ACDM	1. Interconnection between aircraft operator & ANSP systems to share surface operations information	1							
	2. Interconnection between aircraft operator & airport operator systems to share surface operations information				1				
	 Interconnection between airport operator & ANSP systems to share surface operations information 	1							
	 Interconnection between airport operator, aircraft operator & ANSP systems to share surface operations information 	1							
	5. Collaborative departure queue management	1							
APTA	 PBN approach procedures with vertical guidance to LNAV/VNAV minima 								1
	2. PBN approach procedures with vertical guidance to LPV minima				1				
	3. PBN approach procedures without vertical guidance to LNAV minima							1	
	4. GBAS Landing System (GLS) procedures to CAT I minima				1				
RSEQ	1. AMAN via controlled time of arrival to a reference fix				1				
	2. Departure management				1				
	3. Departure flow management				1				
	4. Point merge				1				
SURF	1. A-SMGCS with at least one cooperative surface surveillance system				1				
	2. Including ADS-B APT as an element of A-SMGCS				1				
	3. A-SMGCS alerting with flight identification information				1				
	4. EVS for taxi operations				1				
	5. Airport vehicles equipped with transponders				1				
WAKE	1. New PANS-ATM wake turbulence categories and separation minima				1				
	2. Dependent diagonal paired approach procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart				1				

			Need A	analysis	5	_		ation St t is need	
Module	Elements	Not Started	In Progress	Need	N/A	Planning	Developing	Partially Implemented	Implemented
	 Wake independent departure and arrival operations (WIDAO) for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart 				1				
	 Wake turbulence mitigation for departures (WTMD) procedures for parallel runways with centrelines spaced less than 760 meters (2,500 feet) apart based on observed crosswinds 				1				
	5. 6 wake turbulence categories and separation minima				1				
	Performance Improvement Area 2: Globally Interop	erable	System	s and I	Data	1	•		
AMET	1. WAFS								
	2. IAVW								
	3. TCAC forecasts								
	4. Aerodrome warnings								
	5. Wind shear warnings and alerts								
	6. SIGMET								
	7. Other OPMET information (METAR, SPECI and/or TAF)								
	8. QMS for MET								
DATM	1. Standardized Aeronautical Information Exchange Model (AIXM)							\checkmark	
	2. eAIP							\checkmark	
	3. Digital NOTAM		\checkmark						
	4. eTOD		1						
	5. WGS-84								
	6. QMS for AIM								
FICE	 AIDC to provide initial flight data to adjacent ATSUs 								
	2. AIDC to update previously coordinated flight data								
	3. AIDC for control transfer								
	4. AIDC to transfer CPDLC logon information to the Next Data				\checkmark				
	Authority				1.4.				
ACAS	Performance Improvement Area 3: Optimum Capa 1. ACAS II (TCAS version 7.1)	city an	a Flexi	ble Flig	$\frac{nts}{}$	[
ACAS					 √				
	2. AP.FD function 3. TCAP function				 √				
ASEP					N V				
ASEP					 √				
ASUR	2. ATSA-VSA 1. ADS-B				V				
ASUK					1			V	
FRTO	 Multilateration (MLAT) CDM incorporated into airspace planning 	<u> </u>			1				
FRIO	CDM incorporated into anspace planning Flexible Use of Airspace (FUA)							v	
	3. Flexible routing								V
	4: CPDLC used to request and receive re-route clearances				√ √				
NOPS	CFDEC used to request and receive re-route clearances Sharing prediction of traffic load for next day				v				
1010	 Sharing prediction of darne load for hext day Proposing alternative routings to avoid or minimize ATFM delays 					v √			
OPFL	In the second seco					v			
SNET	1. Short Term Conflict Alert implementation (STCA)								
DI UI	Area Proximity Warning (APW)	<u> </u>							√
	 Minimum Safe Altitude Warning (MSAW) 								1
	4. Medium Term Conflict Alert (MTCA)								1
	Performance Improvement Area 4: Efficie	nt Flig	ht Path	s					
ССО	1. Procedure changes to facilitate CCO							1	
	2. Airspace changes to facilitate CCO							1	
	3. PBN SIDs							1	
CDO	Procedure changes to facilitate CDO							1	
	2. Airspace changes to facilitate CDO							1	
	3. PBN STARs							1	
l								-	

			Need Analysis					ation St t is need	
Module	Elements	Not Started	In Progress	Need	N/A	Planning	Developing	Partially Implemented	Implemented
TBO	1. ADS-C over oceanic and remote areas				\checkmark				
	2. CPDLC over continental areas				\checkmark				
	3. CPDLC over oceanic and remote areas Note: This is done by CENAMER/COCESNA.				\checkmark				

Table 2.1.2 ASBU B0 Implementation Status Summary

2.2 Belize's ASBU Block 1 Implementation Targets and Status

This section will be written after 2019. Appendix E is reserved for ASBU B1 ANRFs.

2.3 Belize's ASBU Block 2 Implementation Targets and Status

This section will be written after 2025. Appendix F is reserved for ASBU B2 ANRFs.

2.4 Belize's ASBU Block 3 Implementation Targets and Status

This section will be written after 2031. Appendix G is reserved for ASBU B3 ANRFs.

3. ICAO NACC Regional Aviation System Improvements (RASI) Status

The RPBANIP is aligned with GANP and provides guidance to States in the NACC region. The ICAO NACC Regional Office also provides guidance to implement certain capabilities outside the ASBU scope, yet regionally important improvements. Currently 4 aerodrome associated NACC region specific improvements are identified and shown below. RASI ANRF for ICAO NACC Regional Initiatives is prepared and provided in **Appendix H.**

- Aerodrome certification Status: MZBZ foreseen in December 2018
- Heliport operational approval Status: Not applicable
- Visual aids for air navigation Status: Implemented
- Aerodrome Bird/Wildlife Organization and Control Programme Status: In Progress

4. Belize's State Aviation System Improvements (SASI) Status

Belize's State Aviation System Improvements (SASI) are broken into three categories;

(1) Equipment upgrades;

(2) Procedure upgrades; and

(3) Infrastructure upgrades.

The details of upgrades were recorded using SASI ANRFs and provided in Appendix I.

4.1 Equipment Upgrades

Equipment upgrades are not identified at this time.

4.2 Procedure Upgrades

Procedure upgrades are not identified at this time.

4.3 Infrastructure Upgrades

There are five infrastructure upgrades, shown below, which have been identified to address anticipated airport and airspace demand growth. SASI ANRF for Infrastructure Upgrades is prepared and provided in Appendix I.

- Airport Terminal Development Status: In progress
- Airport Taxiway construction Status: Analysis in Progress
- Runway rehabilitation Status: Analysis in Progress
- Apron rehabilitation Status: Analysis in Progress
- Runway Meteorological Instrumentation: In Progress

5. Belize's State ANP Next Review Schedule

This document is scheduled to be produced in 2018. It will be reviewed at the last quarter of every year or as deemed necessary.

Appendix A: ANRF Explained

An ASBU ANRF should be completed for each applicable ASBU Module as follows:

- **PIA** The Performance Improvement Area (1, 2, 3 or 4) for the ASBU Module, as per the *NAM ASBU Handbook*.
- Block Module The Module Designation for the ASBU Module, as per the NAM ASBU Handbook.
- **Date** The date when the form was completed or updated.
- Module Description The Summary Description for the ASBU Module, as per the NAM ASBU Handbook.
- ElementThe descriptive text for each Element, as per the NAM ASBU Handbook. It is not
necessary to include the Defined, Derived from or Identified By information.
Insert additional rows, if necessary, to accommodate all of the Elements listed for
the ASBU Module.

Date Planned or Implemented The month and year when the Element was fully implemented or the year when it is planned for the Element to be fully implemented by all applicable States or at all applicable aerodromes. This field should be left blank if the Status for the Element is "Analysis Not Started" or "Not Applicable" for all States or aerodromes in the Region.

StatusThe Need Analysis or Implementation status for the Element, in accordance with
Table NAM ASBU III-1, III-2, III-3 or III-4. Indicate the status as follows:

Not Started: if the Need Analysis has not been started for any of the States or aerodromes

In Progress: if at least one Need Analysis has been started but none have yet been completed

Need: if at least on Need Analysis has determined a requirement for the Element, but no implementation planning has yet been initiated

Not Applicable: 1) if all of the Need Analyses completed to date have concluded the Element is not required, or 2) if the Element is not an aerodrome-related improvement and the Region has not adopted the improvement for region-wide implementation.

Planning: if at least one implementation is in the Planning phase and no implementations have yet been completed.

Developing: if at least one implementation is in the Developing phase but no implementations have yet been completed.

Partially Implemented: if at least one, but not all, implementations have been completed.

Implemented: if all of Needed implementations have been completed.

Status Details Further information to support or explain the reported status. The reason(s) an Element was found to be "Not Applicable" for all the aerodromes (or States) in the Region. The reason(s) why the Need Analysis has not been completed for all or some of the aerodromes (or States) in the Region. Information on where implementation has or has not been completed (as appropriate) if the reported status is "Partially Implemented".

Achieved Benefits Describe the achieved benefits for the entire Module or particular Elements. The benefits can be quantitative or qualitative. The benefits should be described for the following 5 of the 11 Key Performance Areas (KPAs) defined the *Manual on Global Performance of the Air Navigation System* (Doc 9883):

Access & Equity: Improving the operating environment so as to ensure all airspace users have the right of access to ATM resources needed to meet their specific operational requirements; and ensuring that the shared use of the airspace for different airspace users can be achieved safely. Providing equity for all airspace users that have access to a given airspace or service. Generally, the first aircraft ready to use the ATM resources will receive priority, except where significant overall safety or system operational efficiency would accrue or national defence considerations or interests dictate by providing priority on a different basis.

Capacity: Improving the ability to meet airspace user demand at peak times and locations while minimizing restrictions on traffic flow. Responding to future growth by increasing capacity, efficiency, flexibility, and predictability while ensuring that there are no adverse impacts to safety and giving due consideration to the environment. Increasing resiliency to service disruption and minimising resulting temporary loss of capacity.

Efficiency: Improving the operational and economic cost effectiveness of gateto-gate flight operations from the airspace users' perspective. Increasing the ability for airspace users to depart and arrive at the times they select and fly the trajectory they determine to be optimum in all phases of flight.

Environment: Contributing to the protection of the environment by minimizing or reducing noise, gaseous emissions, and other negative environmental effects in the implementation and operation of the air navigation system.

Safety: Reducing the likelihood or severity of operational safety risks associated with the provision or use of air navigation services.

Implementation Challenges A description of any circumstances that have been encountered or are foreseen that might prevent or delay implementation. Challenges should be categorized and described under the applicable subject area.

Any further information as deemed appropriate.

Notes

Appendix B: ASBU ANRF Template

	BELIZE ASBU Air Navigation Repo	orting Fo	orm (ANRF)	
PI /		Date	12 March, 2018	
Mo	dule Description: To implement collaborative applications that	t will all	low the sharing of surface	e operations data
	ong the different stakeholders on the airport. This will improve s			
mo	vement and manoeuvring areas and enhance safety, efficiency and	nd situat	ional awareness.	
Ele	ment Implementation Status			
1	Element Description:	Date H	Planned/Implemented	Status
	Interconnection between aircraft operator and ANSP systems	2019		Analysis Not
	to share surface operations information			Started
	Status Details			
	The BDCA will initiate dialogue with the aircraft operators to	analize t	he interconnection capab	oility.
2	Element Description:	Date H	Planned/Implemented	Status
	Interconnection between aircraft operator and airport	N/A		N/A
	operator systems to share surface operations information			
	Status Details			
	Not applicable.			
	The analysis will be done between the BACC and the aircraft of	operators	8.	
3	Element Description:	Date I	Planned/Implemented	Status
	Interconnection between airport operator and ANSP systems	2019		Analysis Not
	to share surface operations information			Started
	Status Details			
	The analysis will be done between the aircraft operators and th			-
4	Element Description:	Date I	Planned/Implemented	Status
4	Interconnection between airport operator, aircraft operator	Date I 2019	'lanned/Implemented	Analysis Not
4	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information		lanned/Implemented	
4	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details	2019		Analysis Not
	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr	2019 raft oper	ators.	Analysis Not Started
4	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description:	2019 raft oper Date H		Analysis Not Started Status
	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr	2019 raft oper	ators.	Analysis Not Started Status Analysis Not
	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management	2019 raft oper Date H	ators.	Analysis Not Started Status
	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details	2019 raft oper Date H 2019	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p	2019 raft oper Date H 2019	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acl	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits	2019 raft oper Date H 2019	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acl	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits ress and Equity	2019 raft oper Date H 2019	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acl	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits	2019 raft oper Date H 2019	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acl Acc Cap	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits ress and Equity	2019 raft oper Date H 2019	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acl Acc Cap Effi	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits <i>ress and Equity</i> <i>pacity</i>	2019 raft oper Date H 2019	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acl Acc Cap Effi Env	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits ress and Equity pacity iciency	2019 raft oper Date H 2019 ractices.	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Act Acc Cap Effi Saf	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits tess and Equity bacity iciency bironment: No report Ety: With a proper analysis the expectation is that safety will plementation Challenges	2019 raft oper Date H 2019 ractices.	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Act Acc Cap Effi Saf	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits cess and Equity bacity ficiency prironment: No report ety: With a proper analysis the expectation is that safety will	2019 raft oper Date H 2019 ractices.	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Act Acco Cap Effit Saf Im Gra	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits tess and Equity bacity iciency bironment: No report Ety: With a proper analysis the expectation is that safety will plementation Challenges	2019 raft oper Date H 2019 ractices.	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Ace Acc Cap Effi Em Saf Im Gra Avi	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits ress and Equity pacity ficiency pironment: No report ety: With a proper analysis the expectation is that safety will plementation Challenges pund system Implementation: NONE	2019 raft oper Date H 2019 ractices.	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acc Cap Effi Env Saf Im Gra Avi Pro	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits seess and Equity bacity bacity biciency bicronment: No report ety: With a proper analysis the expectation is that safety will plementation Challenges bund system Implementation: NONE onics Implementation:	2019 raft oper Date H 2019 ractices.	ators. Planned/Implemented	Analysis Not Started Status Analysis Not
5 Acc Cap Effi Env Saf Im Gra Avi Pro	Interconnection between airport operator, aircraft operator and ANSP systems to share surface operations information Status Details The analysis will be done with the BDCA, BACC and the aircr Element Description: Collaborative departure queue management Status Details The BDCA will explore what will function and look for best p hieved Benefits seess and Equity bacity diciency dirionment: No report Ety: With a proper analysis the expectation is that safety will plementation Challenges bund system Implementation: NONE onics Implementation: beedures Availability: erational Approvals:	2019 raft oper Date H 2019 ractices.	ators. Planned/Implemented	Analysis Not Started Status Analysis Not

BF	LIZE ASBU Air Navigation Reporting F	orm	(ANRF)	
PIA			Date NOVEMBER 2018	
	dule Description: The use of Performance-based Navig	ation ()		ation system
	BAS) landing system (GLS) procedures will enhance the			
thu	s increasing safety, accessibility and efficiency. This is p	ossible	through the application of basic	global
nav	igation satellite system (GNSS), Baro-vertical navigation	ı (VNA	V), satellite-based augmentation	system (SBAS)
and	GLS. The flexibility inherent in PBN approach design c	an be e	xploited to increase runway capa	city.
Ele	ment Implementation Status			
1	Element Description:		Date Planned/Implemented	Status
	PBN approach procedures with vertical guidance to		2019	Partially
	LNAV/VNAV minima			Implemented
	Status Details			
	Implemented for Runway 07 at MZBZ. We are working	g with c	our service provider (ACNA/COO	CESNA) for the
	development of the procedures for Runway 25.	1 -		~
2	Element Description:		Planned/Implemented	Status
	PBN approach procedures with vertical guidance to	TBD		Analysis in
	LPV minima			Progress
	Status Details			
2	Belize is working with ACNA/COCESNA.		D-4-DI	Chadran.
3	Element Description: PBN approach procedures without vertical guidance to		Date Planned/Implemented December, 2016	Status Partially
	LNAV minima		December, 2016	Implemented
	Status Details			Implemented
	Implemented for Runway 07 at MZBZ. The BDCA is w	vorking	with our service provider (ACN	$\Delta/COCESN\Delta$
	for the development of the procedures for Runway 25.	VOIKIIIg	with our service provider (Hert	
4	Element Description:		Date Planned/Implemented	Status
-	GBAS Landing System (GLS) procedures to CAT I min	nima	N/A	N/A
	Status Details			1.011
	N/A			
Acl	nieved Benefits			
Acc	ess and Equity			
	pacity			
Effi	ciency			
Env	vironment			
Saf	ety			
Im	plementation Challenges			
Gre	ound system Implementation			
	onics Implementation			
Pro	cedures Availability			
Ope	erational Approvals			
Not				

	BELIZE	ASBU Air Navigatio	n Reporting F	orm (ANRF)				
PIA		B0 - RSEQ	Date	N/A				
Mo	dule Description: To manage an	rivals and departures (i	ncluding time-	based metering) to and fr	om a multi-			
	way aerodrome or locations with	nultiple dependent run	ways at closely	proximate aerodromes,	to efficiently			
	ize the inherent runway capacity.							
Ele	ment Implementation Status							
1	Element Description:			Planned/Implemented	Status			
	AMAN via controlled time of ar	rival to a reference fix	N/A		N/A			
	Status Details							
	N/A							
2	Element Description:			Planned/Implemented	Status			
	Departure management		N/A		N/A			
	Status Details							
	N/A							
3	Element Description:			Planned/Implemented	Status			
	Departure flow management		N/A		N/A			
	Status Details							
	N/A		I		T			
4	Element Description:			Planned/Implemented	Status			
	Point merge		N/A		N/A			
	Status Details							
	N/A							
-	nieved Benefits							
	ess and Equity							
	pacity							
	ciency							
	vironment							
Safe								
_	plementation Challenges							
	ound system Implementation							
	onics Implementation							
	cedures Availability							
-	erational Approvals							
Not	tes							

	BELIZE ASBU Air Navigation Repo	orting Form (ANRF)	
PI /	A1Block - ModuleB0 - SURF	Date N/A	
	dule Description: First levels of advanced-surface movement		
	vides surveillance and alerting of movements of both aircraft an	d vehicles at the aerodrome, thus	improving
	way/aerodrome safety.		
	tomatic dependent surveillance-broadcast (ADS-B) information	is used when available (ADS-B.	APT). Enhanced
	ion systems (EVS) is used for low-visibility operations.		
	ment Implementation Status	1	
1	Element Description:	Date Planned/Implemented	Status
	A-SMGCS with at least one cooperative surface surveillance	N/A	N/A
	system		
	Status Details		
	N/A		
2	Element Description:	Date Planned/Implemented	Status
	ADS-B APT	N/A	N/A
	Status Details		
	N/A		<u> </u>
3	Element Description:	Date Planned/Implemented N/A	Status N/A
	A-SMGCS alerting with flight identification information Status Details	IN/A	IN/A
	N/A		
4		Data Dianad/Implemented	Status
4	Element Description: EVS for taxi operations	Date Planned/Implemented N/A	N/A
	Status Details	1 1 /A	11/74
	N/A		
5	Element Description:	Date Planned/Implemented	Status
2	Airport vehicles equipped with transponders	N/A	N/A
	Status Details	11/21	10/11
	N/A		
Ac	hieved Benefits		
Acc	cess and Equity		
Ca	pacity		
Eff	iciency		
En	vironment		
Saf	ety		
	plementation Challenges		
	ound system Implementation		
	ionics Implementation		
	ocedures Availability		
	erational Approvals		
No	tes		

	BELIZE ASBU Air Navigation Repo	orting Form (ANRF)	
PIA		Date N/A	
	dule Description: Improved throughput on departure and arriv		ake turbulence
	aration minima, revised aircraft wake turbulence categories and	procedures.	
	ment Implementation Status		
1	Element Description:	Date Planned/Implemented	Status
	New PANS-ATM wake turbulence categories and separation	N/A	N/A
	minima Status Details		
	N/A		
2	Element Description:	Date Planned/Implemented	Status
-	Dependent diagonal paired approach procedures for parallel	N/A	N/A
	runways with centrelines spaced less than 760 meters (2,500		
	feet) apart		
	Status Details		
	N/A		
3	Element Description:	Date Planned/Implemented	Status
	Wake independent departure and arrival operations	N/A	N/A
	(WIDAO) for parallel runways with centrelines spaced less		
	than 760 meters (2,500 feet) apart Status Details		
	N/A		
4	Element Description:	Date Planned/Implemented	Status
-	Wake turbulence mitigation for departures (WTMD)	N/A	N/A
	procedures for parallel runways with centrelines spaced less		
	than 760 meters (2,500 feet) apart based on observed		
	crosswinds		
	Status Details		
	N/A		1
5	Element Description:	Date Planned/Implemented	Status
	6 wake turbulence categories and separation minima	N/A	N/A
	Status Details		
	N/A		
Ac	ieved Benefits		
Acc	ess and Equity		
Cap	pacity		
Effi	ciency		
Env	ironment		
Saf			
	olementation Challenges		
	und system Implementation		
	onics Implementation		
	cedures Availability		
	erational Approvals		
Not	es		

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	Personnel attend annual meetings.
Status Details	Personnel attend annual meetings. 4 Element Description: Date Planned/Implemented Status
In accordance with letter of agreement NMS will furnish information such as VOLCANIC activity, strong	Personnel attend annual meetings. 4 Element Description: Aerodrome warnings Date Planned/Implemented 2016 Status Implemented
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Achieved Benefits
Access and Equity
Capacity
Efficiency
Environment
Safety
Implementation Challenges
Ground system Implementation
Avionics Implementation
Procedures Availability
Operational Approvals
Notes

	BELIZE ASBU Air Navigation Re		
PI		Date November, 2018	
	dule Description: The initial introduction of digital processi		
	gination to publication, through aeronautical information servi		
	M) implementation, use of aeronautical exchange model (AIX		utical
infe	prmation publication (AIP) and better quality and availability	of data.	
Ele	ment Implementation Status		
1	Element Description:	Date Planned/Implemented	Status
	Standardized Aeronautical Information Exchange Model	2018	Partially
	(AIXM)		Implemented
	Status Details		· •
	COCESNA's migration from AFTN to AMHS includes the	AIXM implementation.	
2	Element Description:	Date Planned/Implemented	Status
	eAIP	APRIL 2018	Implemented
	Status Details		· •
	The EAIP is now official and is available to the public in the	e Belize Department of Civil Aviati	ion website.
3	Element Description:	Date Planned/Implemented	Status
	Digital NOTAM	2020	Analysis in
			progress
	Status Details	1	110-300
	We have the capability to develop the Digital NOTAM, how	vever we are planning implementati	ion in 2020. The
	analysis is taking place in coordination with our service pro-		1011 III 2020. THe
	analysis is taking place in coordination with our service pro		
4	Element Description:	Date Planned/Implemented	Status
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	CIOD	November, 2018	
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	Status Details We are working with our service provider ACNA/COCESN		Progress.
5	We are working with our service provider ACNA/COCESN		
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5	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details	Date Planned/Implemented 2016	Status Implemented
	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA.	Date Planned/Implemented 2016 ation Centre. Also with our service	Status Implemented provider
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6 Aci	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Aci Aci	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Ac Ac Ca	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Ac Ac Caj	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits bieves and Equity pacity iciency	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Ac Ac Ca Eff En	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits bieved Benefits bieved Benefits bieved Benefits bieved big	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Aci Acc Caj Eff Saf	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits bieve	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Ac Ac Ca Eff En Saf Im	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits bieve	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Ac Ac Eff En Saf Gra	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits bieve	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
Ac Ac Ca Eff En Saf Im Gre Avi	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits bieve	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Acc Acc Ca Eff Env Saf Im Gra Avia	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits hieved Benefits bieved Benefits bieve	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in
6 Aci Aco Caj Eff Env Saf Gra Avi Pro	We are working with our service provider ACNA/COCESN Element Description: WGS-84 Status Details Constant dialogue is maintained with our local Land Inform ACNA/COCESNA. Element Description: QMS for AIM Status Details Working with our service provider AIM/COCESNA. hieved Benefits hieved Benefits bieved Benefits bieve	Date Planned/Implemented 2016 ation Centre. Also with our service Date Planned/Implemented	Status Implemented provider Status Analysis in

	BELIZE ASBU Air Navigation Re	porting F	orm (ANRF)						
PI A		Date	2018						
dat An	Detuile Description: To improve coordination between air traf a communication (AIDC) defined by ICAO's Manual of Air T additional benefit is the improved efficiency of the transfer o	Traffic Serv	vices Data Link Applicat	tions (Doc 9694).					
<u>Eie</u> 1	Element Implementation Status Element Description: AIDC to provide initial flight data to adjacent ATSUs	Date Planned/Implemented NOVEMBER 2018		Status Partially Implemented					
	Status Details The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be	lesa, Hond							
2	Element Description: AIDC to update previously coordinated flight data		Planned/Implemented EMBER 2018	Status Partially Implemented					
	Status Details The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be	lesa, Hond							
3	Element Description: AIDC for control transfer		Planned/Implemented EMBER 2018	Status Partially Implemented					
			Status Details The BDCA has the equipment installed. We are working with ACNA/COCESNA to have AIDC with Merida, Mexico, CENAMER ACC, La Aurora, Guatemala and La Mesa, Honduras and those other ANSPs that have						
	The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M	lesa, Hond		C with Merida,					
4	The BDCA has the equipment installed. We are working wi	lesa, Hond updated.		C with Merida,					
	The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have Status					
Ac	The BDCA has the equipment installed. We are working wir Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hieved Benefits cess and Equity	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have Status					
Ac Acc Ca Eff	The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hieved Benefits cess and Equity pacity iciency	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have Status					
Ac Acc Caj Effi Env	The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hieved Benefits cess and Equity pacity iciency vironment	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have					
Ac Acc Ca Eff En Saf Im	The BDCA has the equipment installed. We are working wir Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hieved Benefits cess and Equity pacity iciency vironment fety plementation Challenges	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have					
Acc Acc Cap Effi Env Saf Im Gree	The BDCA has the equipment installed. We are working wir Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hieved Benefits cess and Equity pacity iciency vironment fety plementation Challenges ound system Implementation	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have					
Ac Acc Caj Effi Env Saf Im Gra Avi	The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hiveed Benefits cess and Equity pacity ficiency vironment fety plementation Challenges ound system Implementation ionics Implementation	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have					
Ac Acc Caj Effi Env Saf Im Gra Avi Pro	The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hieved Benefits cess and Equity pacity ficiency vironment fety plementation Challenges ound system Implementation ionics Implementation predures Availability	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have					
Acc Caj Effi Env Saf Im Gra Avi Pro	The BDCA has the equipment installed. We are working wi Mexico, CENAMER ACC, La Aurora, Guatemala and La M this equipment installed. ATS Letters of Agreement will be Element Description: AIDC to transfer CPDLC logon information to the Next Data Authority Status Details N/A hieved Benefits cess and Equity pacity liciency vironment fety plementation Challenges ound system Implementation ionics Implementation predures Availability erational Approvals	lesa, Hond updated. Date I	uras and those other AN	C with Merida, SPs that have					

		BELIZE	ASBU Air Navigat	ion Reporting F	orm (ANRF)	
PIA	3	Block - Module	B0 - ACAS	Date	N/A	
					borne collision avoidance	
					ty. This will reduce trajed	ctory deviations
			re is a breakdown of	f separation.		
Ele		entation Status				
1	Element Des			Date 1	Planned/Implemented	Status
	ACAS II (TO	CAS version 7.1)		N/A		N/A
	Status Detai	ls				
	N/A					
2	Element Des			Date 1	Planned/Implemented	Status
	AP/FD funct			N/A		N/A
	Status Detai	ls				
	N/A					
3	Element Des				Planned/Implemented	Status
	TCAP function			N/A		N/A
	Status Detai	ls				
	N/A					
	nieved Benefit					
	ess and Equity	y				
	pacity					
Effi	ciency					
Env	vironment					
Safe	~					
	plementation					
		nplementation				
	onics Impleme					
Pro	cedures Avail	ability				
Ope	erational Appr	ovals				
Not	tes					

		BELIZE	ASBU Air Naviga	tion Reporting F	Form (ANRF)	
PIA	3	Block - Module	B0 - ASEP	Date	N/A	
effic acqu a) A b) V	ciency by provuisition of targ MRB (basic ain VSA (visual se	viding pilots with the ets: borne situational av paration on approac	e means to enhance vareness during flig	traffic situational	cations which will enhanc awareness and achieve q	
-		entation Status				1
1	Element Des				Planned/Implemented	Status
-	ATSA-AIRB			N/A		N/A
	Status Detail	s				
-	N/A			I		L ~
2	Element Des	cription:			Planned/Implemented	Status
-	ATSA-VSA	-		N/A		N/A
	Status Detail	S				
	N/A					
-	nieved Benefit					
	ess and Equity	,				
	pacity					
	ciency					
	vironment					
Safe	olementation (Challangag				
	ound system Im					
	onics Impleme					
	cedures Availa					
	erational Appr	2				
Not		ovais				
TON	les					

	BELIZEASBU Air Navigation Reporting Form (ANRF)								
PIA	. 3	Block - Module	B0 - ASUR	Date	2018				
			tial capability for lower cos						
			d wide area multilateration			vill be expressed			
			nformation, search and res	cue and sep	paration provision.				
	Element Implementation Status								
1	Element Des	scription:			Planned/Implemented	Status			
	ADS-B			2018		Partially Implemented			
[Status Detai	ls							
	The BDCA i	s working with ACN	NA/COCESNA for total im	plementati	on.				
2	Element Des	scription:		Date 1	Planned/Implemented	Status			
	MLAT			N/A		N/A			
	Status Detai	ls							
	N/A								
	ieved Benefi								
	ess and Equit	<i>y</i>							
	pacity								
	ciency								
2,	ironment								
Safe	•								
	Implementation Challenges								
-	Ground system Implementation								
	onics Impleme								
-	cedures Avail								
	rational Appr	ovals							
Not	es								

	BELIZE ASBU A	r Navigation Reporting	Form (ANRF)	
PIA	Block - Module B0 - FR	ГО Date	2018	
	dule Description: To allow the use of airs			
	ng with flexible routing adjusted for specific			
	ucing potential congestion on trunk routes a	d busy crossing points, r	esulting in reduced flight le	engths and fuel
bur				
	ment Implementation Status			1
1	Element Description:	Dat	e Planned/Implemented	Status
	CDM incorporated into airspace planning			Partially
				implemented
	Status Details			
	Belize is working with ACNA/COCESNA	to become a member of t	he ATFM data exchange n	etwork of the
-	Americas CADENA.			
2	Element Description:	Dat	e Planned/Implemented	Status
	Flexible Use of Airspace (FUA)			Implemented
	Status Details	h tha Minister of Defense		
2	Memorandum of Agreement is in place wi	•		
3	Element Description: Flexible routing	Dat N/A	e Planned/Implemented	Status N/A
	Status Details	IN/A		IN/A
	N/A			
4	Element Description:	Det	e Planned/Implemented	Status
-	CPDLC used to request and receive re-rou			N/A
	Status Details			10/11
	N/A This is only used over oceanic areas.			
Act	nieved Benefits			
	ess and Equity			
	pacity			
	ciency			
	vironment			
Safe				
	plementation Challenges			
	ound system Implementation			
	onics Implementation			
	cedures Availability			
	erational Approvals			
Not				
1.01				

	BELIZE ASBU Air Navigation Reporting Form (ANRF)						
PIA	3	Block - Module	B0 - NOPS	D	Date	2019	
min invo timo AT	imizes delays olving departur e at waypoints FM may also b	and maximizes the re slots, smooth flow or flight informatio	use of the entire airsp vs and manage rates on region (FIR)/sector	oace. Collal of entry int r boundarie	borativ o airsp s and i	hage the flow of traffic in ve ATFM can regulate tra- bace along traffic axes, m re-route traffic to avoid s used by human or natural	affic flows anage arrival aturated areas.
1	Element Des	cription:				lanned/Implemented	Status
		ction of traffic load	for next day		2019		Planning
	Status Detail The BDCA is	5	A/COCESNA for in	nplementat	ion.		
2	Element Des				Date P	lanned/Implemented	Status
	Proposing alt	ernative routings to	avoid or minimize A	TFM 2	2019		Planning
	delays						_
	Status Detai	s					
	The BDCA is	s working with ACN	A/COCESNA for in	nplementat	ion.		
Ach	nieved Benefit	S					
Acc	ess and Equity	,					
Cap	pacity						
Effi	ciency						
Env	vironment						
Safe	ety						
Im	olementation	Challenges					
	ound system Im						
	onics Impleme						
	cedures Availa						
	erational Appr	~					
Not							

			BELIZH	ASBU Air Naviga	tion Reporting	g Form (ANRF)	
PIA	ι.	3	Block - Module	B0 - OPFL	Date	e N/A	
Mo	dul	e Descript	tion: To enable airc	raft to reach a more	satisfactory flig	ght level for flight efficien	cy or to avoid
turb	turbulence for safety. The main benefit of ITP is fuel/emissions savings and the uplift of greater payloads.						
Ele	mei	nt Implem	entation Status				
1	El	ement Des	scription:		Dat	te Planned/Implemented	Status
	IT	P using Al	DS-B		N/A	Δ	N/A
	St	atus Detai	ils				
	N/	'A					
Acł	iiev	ed Benefi	ts				
Acc	ess	and Equit	у				
Cap	oaci	ity					
Effi	cier	псу					
Env	viroi	nment					
Safe	ety						
Imp	oler	nentation	Challenges				
Gro	ounc	d system In	nplementation				
Avie	onic	cs Impleme	entation				
Pro	ced	lures Avail	ability				
Оре	erat	ional Appr	rovals				
Not	es						

	BELIZE ASBU Air	avigation Reporting Form (ANRF)	
PIA		Date 2017	
Mo	dule Description: To enable monitoring of f	hts while airborne to provide timely alerts to air	traffic
		rom short-term conflict alert (STCA), area proxi	
		W) are proposed. Ground-based safety nets make	
	*	s the operational concept remains human centred	
Ele	ment Implementation Status		
1	Element Description:	Date Planned/Implemented	Status
	Short Term Conflict Alert (STCA)	2017	Implemented
	Status Details		
	It was implemented in the CENAMER ACC		1
2	Element Description:	Date Planned/Implemented	Status
	Area Proximity Warning (APW)	2017	Implemented
	Status Details		
	Same		L
3	Element Description:	Date Planned/Implemented	Status
	Minimum Safe Altitude Warning (MSAW)	2017	Implemented
	Status Details		I
	Same		
4	Element Description:	Date Planned/Implemented	Status
	Medium Term Conflict Alert (MTCA)	2017	Implemented
	Status Details		
	Same		
	nieved Benefits		
	ess and Equity		
	pacity		
	ciency		
	vironment		
Saf			
	plementation Challenges		
	ound system Implementation		
	onics Implementation		
	cedures Availability		
	erational Approvals		
Not	tes		

	BELIZE ASBU Air Navigation Reporting Form (ANRF)						
PI /		Date 2019					
	dule Description: To implement continuous climb operations						
	igation (PBN) to provide opportunities to optimize throughput,		fficient climb				
	files, and increase capacity at congested terminal areas. The app	plication of PBN enhances CCO.					
-	Element Implementation Status						
1	Element Description:	Date Planned/Implemented	Status				
	Procedure changes to facilitate CCO	2019	Partially				
			Implemented.				
			Only for				
			Runway 25 is				
			pending.				
	Status Details						
2	Implemented PBN, CCO, CDO SIDs STARs Element Description:	Date Planned/Implemented	Status				
2	Airspace changes to facilitate CCO	2019	Partially				
	Airspace changes to facilitate CCO	2019	Implemented				
			Only for				
			Runway 25 is				
			pending.				
	Status Details		pending.				
	Implemented PBN, CCO CDO SIDs STARs						
3	Element Description:	Date Planned/Implemented	Status				
C	PBN SIDs	2019	Partially				
			Implemented				
			Only for				
			Runway 25 is				
			pending.				
	Status Details						
Ac	nieved Benefits						
	ess and Equity						
	pacity						
	ciency						
	ironment						
Saf							
	plementation Challenges						
	ound system Implementation						
	onics Implementation						
	cedures Availability						
-	erational Approvals						
No	tes						

	BELIZE ASBU Air Navigation Reporting Form (ANRF)						
PLA		Date 2019					
	Module Description: To use performance-based airspace and arrival procedures allowing an aircraft to fly its						
	mum profile using continuous descent operations. This will opt		cient descent				
	files, and increase capacity in terminal areas. The application of	PBN enhances CDO.					
Ele	Element Implementation Status						
1	Element Description:	Date Planned/Implemented	Status				
	Procedure changes to facilitate CDO	2019	Partially				
			Implemented				
			Only for				
			Runway 25 is				
			pending.				
	Status Details						
-	Belize is working with ACNA COCESNA for the developmen	· · · · · · · · · · · · · · · · · · ·	Chadran.				
2	Element Description: Airspace changes to facilitate CDO	Date Planned/Implemented 2019	Status Partially				
	Anspace changes to facilitate CDO	2019	Implemented				
			Only for				
			Runway 25 is				
			pending.				
	Status Details		pending.				
	Belize is working with our service provider. Procedures are in	draft stage and awaiting feedback	c from				
	stakeholders and also for the COCESNA aircraft to certify the						
3	Element Description:	Date Planned/Implemented	Status				
	PBN STARs	2018	Partially				
			Implemented				
			Only for				
			Runway 25 is				
			pending.				
	Status Details						
	Belize is working with ACNA / COCESNA on general issues.	Airspace reorganization is part o	f the entire				
	project.						
	nieved Benefits						
	ess and Equity						
	pacity						
	ciency						
	ironment						
Saf							
	plementation Challenges						
	bund system Implementation						
	onics Implementation						
	cedures Availability						
Not	erational Approvals						
	es						

	BELIZE ASBU Air Navigation R	eporting Form (ANRF)	
PI		Date N/A	
	dule Description: To implement a set of data link applicati		nmunications in
	traffic services, which will lead to flexible routing, reduced s	separation and improved safety.	
Ele	ment Implementation Status		r
1	Element Description:	Date Planned/Implemented	Status
	ADS-C over oceanic and remote areas	N/A	N/A
	Status Details N/A		I
2	Element Description:	Date Planned/Implemented	Status
-	CPDLC over continental areas	N/A	N/A
	Status Details N/A		
3	Element Description:	Date Planned/Implemented	Status
5	CPDLC over oceanic and remote areas	N/A	N/A
	Status Details N/A		
Ac	nieved Benefits		
4	Element Description: SATVOICE direct controller pilot communication (DCPC)	Date Planned/Implemented <mark>N/A</mark>	<mark>Status</mark> N/A
	Status Details		
	N/A		
Ac	hieved Benefits		
Ace	ess and Equity		
Ca	pacity		
Eff	ciency		
En	vironment		
Saf	·		
	plementation Challenges		
	ound system Implementation		
	onics Implementation		
	ocedures Availability		
	erational Approvals		
No	tes		

Appendix C: RASI and SASI ANRF Templates

RASI and SASI ANRF templates are the same with ASBU ANRF template with exception of the header as shown in this Appendix. The first header is for the ICAO NACC Regional Office specific improvements while the second header is for the State specific improvements.

Section C.1: Regional Aviation System Improvements (RASI) ANRF Header

Enter appropriate State Name and Date. Describe the Module (i.e., improvement group description.)

BELIZE'S RASI Air Navigation Reporting Form (ANRF)				
ICAO NACC Regional Initiatives	Date	September 1, 2017		
Module Description: ICAO NACC RO has identified	ed airport improveme	nts.		
Refer to the ASBU ANRF for the remaining sections (i.e., Element Implementation Status, Achieved Benefits,				
Refer to the ASBU ANRE for the remaining sections	(i.e. Flement Implen	pentation Status Achieved Benefits		
6	(i.e., Element Implen	nentation Status, Achieved Benefits,		
Refer to the ASBU ANRF for the remaining sections Implementation Challenges, and Notes)	(i.e., Element Implen	nentation Status, Achieved Benefits,		

Section C.2: State Aviation System Improvements (RASI) ANRF Header

Enter appropriate State Name, Upgrades category (i.e., Equipment, Procedure, Infrastructure, etc.), Date. Describe the Module (i.e., Upgrades category description.)

BELIZE's SASI Air Navigation Reporting Form (ANRF)					
Infrastructure Upgrades	Date	September 1, 2017			
Module Description: Describe module.					
Refer to the ASBU ANRF for the remaining sections (i.e., Eleme Implementation Challenges, and Notes)	nt Implen	nentation Status, Achieved Benefits,			

Appendix D: BELIZE's ASBU Block 0 ANRFs

Insert 18 ASBU Block 0 ANRFs.

Appendix E: BELIZE's ASBU Block 1 ANRFs

Insert ASBU B1 ANRFs in the future.

Appendix F: BELIZE's SBU Block 2 ANRFs

Insert ASBU B2 ANRFs in the future.

Appendix G: BELIZE's ASBU Block 3 ANRFs

Insert ASBU B3 ANRFs in the future.

Appendix H: Belize's RASI ANRFs

10	BELIZE's Air Navigation Repor		
	AO NACC Regional Initiatives	Date November, 2108	
	dule Description: ICAO NACC RO has identified airport im	provements.	
	ment Implementation Status		a
1	Element Description:	Date Planned/Implemented	Status
	Aerodrome certification	November, 2018	In Progress
	Status Details		
	ICAO NACC region has a goal to have CAR aerodromes in i	ts regional ANP Table AOP I-1 be	e certified.
•	Belize's airport to be certified is MZBZ. This in the process.		a
2	Element Description:	Date Planned/Implemented	Status
	Heliport operational approval	Not applicable	Not
			Applicable
	Status Details		
	ICAO NACC region has a goal to have CAR heliports in its r	egional ANP Table AOP I-1 certif	fied. Currently
_	in Belize, there is no approved or certified heliport		
3	Element Description:	Date Planned/Implemented	Status
	Visual aids for navigation	Sep 2017	Implemented
	Status Details		
	ICAO NACC region has a goal to have CAR airports in its A	NP Table AOP I-1 compliant with	Annex 14
	requirements. This capability is implemented at MZBZ.		
4	Element Description:	Date Planned/Implemented	Status
	Aerodrome Bird/Wildlife Organization and Control	Dec 2018	In Progress
	Programme		
	Status Details		
	ICAO NACC region has a goal to have CAR airports in its A		
	bird/wildlife organization and control programme. Belize is o	developing the manual to address t	this issue.
	nieved Benefits		
	ess and Equity		1 1
	ment 1 - Aerodrome certification: International operators may	not be permitted to operate to aero	odromes that are
	certified		1 1
	ment 2. Heliport operational approval: International operators	may not be permitted to operate to	b heliports that
	not approved	. 1	1 .1 .
	ment 3. Visual aids for navigation: International operators may	y not be permitted to operate to ae	rodromes that
	not compliant with Annex 14		
	pacity: No report		
	ciency		
	ment 3. Visual aids for navigation: Annex 14 compliant visua	and a for navigation assist flights	to more
	ciently complete ground movements		
	vironment: No report		
Saf			
	ment 1 - Aerodrome certification: Certification should be cont		
	AO SARPs. Certification and the associated regulatory oversig		s of SSP and
	S processes to identify and correct safety issues at certified aer		1 • • • •
	ment 2. Heliport operational approval: Certification should be		
	licable ICAO SARPs. Approval and the associated regulatory		ctiveness of SSP
	SMS processes to identify and correct safety issues at approve		c :
	ment 3. Visual aids for navigation: Annex 14 compliant visual		crew confusion
	assist in avoiding runway incursions or other ground moveme		1 . 1
Ele	ment 4. Aerodrome Bird/Wildlife Organization and Control Pr		
	gramme reduces the potential for aircraft to strike wildlife or in	nast wildlite into engines or prop	allers
pro		igest when it into engines of propo	chers.
pro Im	plementation Challenges	igest when into engines of prop	
pro Im <i>Gre</i>		igest when it into engines or prop	

Procedures Availability: No report *Operational Approvals:* No report

Notes

Element 1: Airport Terminal Development will also address the airport terminal security issues.

Appendix I: BELIZE's SASI ANRFs

	BELIZE's SASI Air Navi	gation Reporting Form (ANRF)	
Inf	rastructure Upgrades	Date	
	dule Description: Development of major compor		e demands of the
	wing Aviation Industry. This will improve capacity		
	wide body Aircraft at the turning pad. Such maneuv		
	ar and tear. The benefits of such infrastructure upg		
	l enhance safety.		,
	ement Implementation Status		
1	Element Description:	Date Planned/Implemented	Status
	Airport Terminal Development	TBD	Analysis in Progress
	Status Details		
	Current terminal building does not meeting the pas		the current
	airport terminal situation, the security and safety ar	e likely to be compromised.	
2	Element Description:	Date Planned/Implemented	Status
	Airport Taxiway Construction	2019	Analysis in
			Progress
	Status Details		
	A third taxiway needs to be constructed to meet the	e optimum operational standards of MZBZ a	nd to reduce
	runway occupancy and delays.		
3	Element Description:	Date Planned/Implemented	Status
	Runway rehabilitation	TBD	Analysis in
			Progress
	Status Details		
	The BDCA has initiated dialogue with the Belize	Airport Concession Company to address this	matter.
4	Element Description:	Date Planned/Implemented	Status
•	Apron rehabilitation	TBD	Analysis in
			Progress
	Status Details		11051000
	The BDCA has initiated dialogue with the Belize	Airport Concession Company to address this	matter
5	Element Description:	Date Planned/Implemented	Status
5	Runway Meteorological Instrumentation	2018	Analysis in
	Runway Weeerorogical Instrumentation	2010	Progress
	Status Details		11051035
	The BDCA and COCESNA and the National Met S	Services are in dialogue and the instrumentat	tion is foreseen
	to be completed in August, 2018	bet vices are in dialogue and the instrumental	lion is foreseen
Ac	hieved Benefits		
	cess and Equity		
лс	less una Equity		
Ca	pacity		
	ment 1 - Airport Terminal Development: Increase t	he consolity to handle passangers smoothly a	t the needs arrival
		the capacity to handle passengers smoothry a	a ale peak alliva
	iods.		
EJJ	iciency		
T	•		
En	vironment		
C			
Saf			0
	ment 2 - Airport Runway Taxiway and Apron Rehab		
	ment 3 - Terminal Building Upgrades: Improve ope	rational movement of passengers and airport	t personnel.
	plementation Challenges		
Gr	ound system Implementation		

Avionics Implementation

Procedures Availability

Operational Approvals

Notes

Element 1 - Airport Terminal Development: Address the airport terminal security issues.

