ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

Fourth Meeting of the APIRG Infrastructure and Information Sub-group (IIM/SG/4)

(Online Meeting, 31 August – 3 September 2021)

Agenda Item 5 : Implementation of ASBU modules

(Presented by Senegal)

SUMMARY
This working paper presents the modifications to the ASBU modules brought by the Sixth Edition of the GANP. Action by the Meeting is at **paragraph 3.**
REFERENCE(S): •Global Air Navigation Plan (GANP), Sixth Edition •APIRG/21, 22 and 23 Reports
ICAO Strategic Objectives: A- Security; B- Capacity and Efficiency of air navigation; E- Environmental protection. **KPIs and ASBU B0 Modules concerned** : .ALL

1. INTRODUCTION

1.1 The Sixth Edition of the Global Air Navigation Plan (GANP) has several changes from the Fifth Edition. As a result, there is a need to update the ASBU Block 0 AFI implementation plan, the national ASBU implementation plans and the air navigation reporting forms (ANRF).

1.2 The Sixth Edition of the GANP is available online on the ICAO portal at: https://www4.icao.int/ganpportal/.

2. DISCUSSION

2.1 The most salient changes brought by the sixth edition are:

a) extension of the strategic vision for civil aviation evolution from 2031 to the year 2040 and beyond;

b) concerning the ASBU framework, the replacement of the 4 Performance Improvement Areas (PIAs) (Airport Operations, Globally interoperable systems and data, Optimum capacity and flexible flights, Efficient flight paths) with 3 high level areas (Operational, Information, Technology) ;

c) grouping of the threads in these 3 areas. Guidance material on the threads are to be found at: https ://www4.icao.int/ganpportal/ASBU/Thread ;

d) introduction of CNS technology and services threads: COMI (Communication infrastructure), COMS (ATS communication service) and NAVS (Navigation systems) ;

e) increasing of the number of Blocks from 4 to 5 (B0, B1, B2, B3, B4) ;

f) deletion from Block 0 of the treads ACAS, ASEP, DATM and WAKE;

g) the CCO et CDO modules are elements of the thread APTA.

2.2 A tutorial presentation on the sixth edition of the GANP is at : https://www4.icao.int/ganpportal/Tutorial.

2.3 The **attachment** to this working paper shows the Block 0 elements of the Sixth edition of the GANP. It emerges that, within the APIRG, the implementation plan for the ASBU Block 0 must be reviewed and amended by choosing the elements to be implemented in the AFI Region so that States can update their ASBU plans.

3. ACTION BY THE MEETING

3.1 The Meeting is invited to:

a) note the information provided herein;

b) to update the AFI regional ASBU Block 0 implementation plan and the air navigation reporting forms (ANRF), taking into account the sixth edition of the GANP;

c) request States to update their ASBU Block 0 implementation plans as a component of their national air navigation plan (APIRG 21/17 Conclusion) according to the Sixth Edition of the GANP ;

d) adopt the following draft conclusion.

DRAFT CONCLUSION IIMG/SG/4-XX – ASBU BLOCK 0 IMPLEMENTATION PLAN

That:

a) ICAO Regional Offices update the AFI regional ASBU Block 0 Implementation Plan and the air navigation reporting forms (ANRF), taking into account the Sixth Edition of the GANP;

b) States update their ASBU Block 0 implementation plans to the Sixth Edition of the GANP as a component of their national air navigation plan (APIRG 21/17 Conclusion) according to the sixth edition of the GANP, and periodically advise the Secretariat of their progress in their implementation.

ATTACHMENT

ASBU BLOCK 0 ELEMENTS OF THE GANP, SIXTH EDITION

Labelling of Block elements : *thread-Block #/element #*

Example : APTA-B0/2

Note : The threads with an asterisk (*) are included in the AFI Region Block 0.

AREA	THREAD	BLOCK 0 ELEMENTS	TITLE OF THE ELEMENTS
OPERATIONAL	ACDM*	ACDM-B0/1	Airport CDM Information Sharing (ACIS)
		ACDM-B0/2	Integration with ATM network function
	APTA*	APTA-B0/1	PBN Approaches (with basic capabilities)
		APTA-B0/2	PBN SID and STAR procedures (with basic capabilities)
		APTA-B0/3	SBAS/GBAS CAT I precision approach procedures
		APTA-B0/4	CDO (Basic)
		APTA-B0/5	CCO (Basic)
		APTA-B0/6	PBN Helicopter Point in Space (PinS) Operations
		APTA-B0/7	Performance based aerodrome operating minima – Advanced aircraft
		APTA-B0/8	Performance based aerodrome operating minima – Basic aircraft
	FRTO*	FRTO-B0/1	Direct routing (DCT)
		FRTO-B0/2	Airspace planning and Flexible Use of Airspace (FUA)
		FRTO-B0/3	Pre-validated and coordinated ATS routes to support flight and flow
		FRTO-B0/4	Basic conflict detection and conformance monitoring
	NOPS*	NOPS-B0/1	Initial integration of collaborative airspace management with air traffic flow management

AREA	THREAD	BLOCK 0 ELEMENTS	TITLE OF THE ELEMENTS
		NOPS-B0/2	Collaborative Network Flight Updates
		NOPS-B0/3	Network Operation Planning basic features
		NOPS-B0/4	Initial Airport/ATFM slots and A-CDM Network Interface
		NOPS-B0/5	Dynamic ATFM slot allocation
	OPFL*	OPFL-B0/1	In Trail Procedure (ITP)
	RSEQ*	RSEQ-B0/1	Arrival Management
		RSEQ-B0/2	Departure Management
		RSEQ-B0/3	Point merge
	SNET*	SNET-B0/1	Short Term Conflict Alert (STCA)
		SNET-B0/2	Minimum Safe Altitude Warning (MSAW)
		SNET-B0/3	Area Proximity Warning (APW)
		SNET-B0/4	Approach Path Monitoring (APM)
	SURF*	SURF-B0/1	Basic ATCO tools to manage traffic during ground operations
		SURF-B0/2	Comprehensive situational awareness of surface operations
		SURF-B0/3	Initial ATCO alerting service for surface operations
	TBO*	TBO-B0/1	Introduction of time-based management within a flow centric approach
INFORMATION	AMET*	AMET-B0/1	Meteorological observations products
		AMET-B0/2	Meteorological forecast and warning products
		AMET-B0/3	Climatological and historical meteorological products
		AMET-B0/4	Dissemination of meteorological products
	FICE*	FICE-B0/1	Automatic basic inter facility data exchange (AIDC)
TECHNOLOGIE	ASUR*	ASUR-B0/1	Automatic Dependent Surveillance – Broadcast (ADS-B)

AREA	THREAD	BLOCK 0 ELEMENTS	TITLE OF THE ELEMENTS
		ASUR-B0/2	Multilateration cooperative surveillance systems (MLAT)
		ASUR-B0/3	Cooperative Surveillance Radar Downlink of Aircraft Parameters (SSR-DAPS)
	COMI	COMI-B0/1	Aircraft Communication Addressing and Reporting System (ACARS)
		COMI-B0/2	Aeronautical Telecommunication Network/Open System Interconnection (ATN/OSI)
		COMI-B0/3	VHF Data Link(VDL) Mode 0/A
		COMI-B0/4	VHF Data Link(VDL) Mode 2 Basic
		COMI-B0/5	Satellite communications (SATCOM) Class C Data
		COMI-B0/6	High Frequency Data Link (HFDL)
		COMI-B0/7	ATS Message Handling System (AMHS)
	COMS	COMS-B0/1	CPDLC (FANS 1/A & ATN B1) for domestic and procedural airspace
		COMS-B0/2	ADS-C (FANS 1/A) for procedural airspace
	NAVS	NAVS-B0/1	Ground Based Augmentation Systems (GBAS)
		NAVS-B0/2	Satellite Based Augmentation Systems (SBAS)
		NAVS-B0/3	Aircraft Based Augmentation Systems (ABAS)
		NAVS-B0/4	Navigation Minimal Operating Networks (Nav. MON)

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