Status of Implementation of ASBU Block 0 – Elements Related to Aeronautical Information Management (B0-DATM)

ASBU B0-RSEQ: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Arrival management and time based metering		Indicator: Percentage of international aerodromes with AMAN and time based metering Supporting metric: Number of international airport with AMAN and time based metering		
2. Departure management		Indicator: Percentage of international aerodromes with DMAN Supporting metric: Number of international airport DMAN		
3. Movement Area Capacity Optimization		Indicator: percentage of international aerodromes with Airport-capacity calculated Supporting metric: Number of international aerodromes with Airport capacity calculated.		

ASBU B0-APTA: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. APV with Baro VNAV		Indicator: Percentage of international aerodromes having instrument runways provided with APV with Baro VNAV procedure implemented Supporting metric: Number of international airport having approved APV with Baro VNAV procedure implemented		
2. APV with SBAS		Not Applicable		
3. APV with GBAS		Indicator: Percentage of international aerodromes having instrument runways provided with APV GBAS procedure implemented Supporting metric: Number of international airport having APV GBAS procedure implemented.		

B0-SURF: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Surveillance system for ground surface movement (PSR, SSR, ADS B or Multilateration)		Indicator: Percentage of international aerodromes with SMR/ SSR Mode S/ ADS-B Multilateration for ground surface movement Supporting metric: Number of international aerodrome with SMR/ SSR Mode S/ ADS-B Multilateration for ground surface movement		
2. Surveillance system on board (SSR transponder, ADS- B capacity)		Indicator: Percentage of surveillance system on board (SSR transponder, ADS-B capacity) Supporting metric: Number of aircraft with surveillance system on board (SSR transponder, ADS-B capacity)		
3. Surveillance system for vehicle		Indicator Percentage of international aerodromes with a cooperative transponder systems on vehicles Supporting metric: Number of vehicle with surveillance system installed		
4. Visual aids for navigation		Indicator: Percentage of international aerodromes complying with visual aid		

B0-SURF: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
		requirements as per Annex 14 Supporting metric: Number of international aerodromes complying with visual aid requirements as per Annex 14		
5. Wild life strike hazard reduction		Indicator: Percentage of reduction of wildlife incursions Supporting metric: Number of runway incursions due to wild life strike		
6. Display and processing information				

ASBU B0-ACDM: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Airport –CDM		Indicator: Percentage of international aerodromes with Airport-CDM Supporting metric: Number of international aerodromes with Airport-CDM		
2. Aerodrome certification		Indicator: Percentage of certified international aerodromes Supporting metric: Number of certified international aerodromes		
3. Airport Planning		Indicator: Percentage of international aerodromes with Master Plans Supporting metric: Number of international aerodromes with Master Plans		
4. Heliport Operations		Indicator: Percentage of Heliports with operational approval Supporting metric: Number of Heliports with operational approval		

ASBU B0-FICE: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Complete AMHS implementation at States still not counting with this system		Indicator: Percentage of States with AMHS implemented Supporting metric: Number of AMHS installed		
2. AMHS interconnection		Indicator: Percentage of States with AMHS interconnected with other AMHS Supporting metric: Number of AMHS interconnections implemented		
3. Implement AIDC/OLDI at some States automated centres		Indicator: Percentage of ATS units with AIDC or OLDI Supporting metric: Number of AIDC or OLDI systems installed		
4. Implement operational AIDC/OLDI between adjacent ACCs		Indicator: Percentage of ACCs with AIDC or OLDI systems interconnection implemented Supporting metric: Number of AIDC interconnections implemented		
5. Implement AFI regional comn network		Indicator: Percentage of phases completed for the implementation of the AFI digital network Supporting metric: Number of phases implemented		

ASBU B0-DATM: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	
1. QMS for AIM		Indicator: % of States QMS Certified Supporting Metric: number of States QMS Certification		
2. e-TOD implementation		Indicator: % of States e-TOD Implemented Supporting Metric: number of States with e-TOD Implemented		
3. WGS-84 implementation		Indicator: % of States WGS-84 Implemented Supporting Metric: number of States with WGS-84 Implemented		
4. AIXM implementation		Indicator: % of States with AIXM implemented Supporting Metric: number of States with AIXM implemented		
5. e-AIP implementation		Indicator: % of States with e-AIP Implemented Supporting Metric: number of States with e-AIP Implemented		
6. Digital NOTAM		Indicator: % of States with Digital NOTAM Implemented Supporting Metric: number of States with Digital NOTAM Implemented		

ASBU B0-AMET: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. WAFS		Indicator: States implementation of WAFS Internet File Service (WIFS) Supporting metric: Number of States implementation of WAFS Internet File Service (WIFS)		
2. IAVW		Indicator: Percentage of international aerodromes/MWOs with IAVW procedures implemented Supporting metric: Number of international aerodromes/MWOs with IAVW procedures implemented		
3. Tropical cyclone watch		Indicator: Percentage of international aerodromes/MWOs with tropical cyclone watch procedures implemented Supporting metric: Number of international aerodromes/MWOs with tropical cyclone watch		
4. Aerodrome warnings		Indicator: Percentage of international aerodromes/AMOs with Aerodrome warnings implemented Supporting metric: Number of international aerodromes/AMOs with Aerodrome		

ASBU B0-AMET: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
		warnings implemented		
5. Wind shear warnings and alerts		Indicator: Percentage of international aerodromes/AMOs with wind shear warnings procedures implemented Supporting metric: Number of international aerodromes/AMOs with wind shear warnings and alerts implemented		
6. SIGMET		Indicator: Percentage of international aerodromes/MWOs with SIGMET procedures implemented Supporting metric: Number of international aerodromes/MWOs with SIGMET procedures implemented		
7. QMS/MET		Indicator: Percentage of MET Provider Sates with QMS/MET implemented Supporting metric: Number of MET Provider Sates with QMS/MET certificated		

ASBU B0-FRTO: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Airspace planning		Not assigned Indicator and metrics.		
2. Flexible Use of airspace		Indicator: % of time segregated airspaces are available for civil operations in the State Supporting Metric: Reduction of delays in time of civil flights.		
3. Flexible Routing		Indicator: % of PBN routes implemented Supporting Metric: KG of Fuel savings Supporting Metric: Tons of CO_2 reduction		

ASBU B0-NOPS: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Air Traffic Flow Management		Indicator: % of implemented FMUs Support Metric: Number of States with ATFM units implemented.		

ASBU B0-ASURF: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Implementation of ADS-B		Indicator: Percentage of international aerodromes with ADS-B implemented Supporting metric: Number of ADS B implemented		
2. Implementation of Multilateration		Indicator: Percentage of multilateration system implemented Supporting metric: Number of multilateration system implemented		
3. Automation system (Presentation)		Indicator: Percentage of ATS units with automation system implemented Supporting metric: Number of automation system implemented in ATS units		

ASBU B0-ACAS: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. ACAS II (TCAS Version 7.1)				

ASBU B0-SNET: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Short Term Conflict Alert (STCA)		Indicator: Percentage of ATS units with ground based safety nets (STCA,) implemented Metric Support: Number of safety nets (STCA) implemented		
2. Area Proximity Warning (APW)		Indicator: Percentage of ATS units with ground based safety nets (APW) implemented Metric Support Number of safety nets (APW) implemented		
3. Minimum Safe Altitude Warning (MSAW)		Indicator: Percentage of ATS units with ground based safety nets (MSAW) implemented Metric Support: Number of Safety nets (MSAW)		

ASBU B0-CDO: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. CDO implementation		Indicator: % of International Aerodromes/TMA with CDO implemented Supporting Metric: Number of International Aerodromes/TMAs with CDO implemented		
2. PBN STARs		Indicator: % of International Aerodromes/TMA with PBN STAR implemented Supporting Metric: Number of International Aerodromes/TMAs with PBN STAR implemented		

ASBU B0-TBO: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. ADS-C over oceanic and remote areas		Indicators: Percentage of FIRs with ADS C implemented Supporting metric: Number of ADS C approved procedures over oceanic and remote areas		
2. Continental CPDLC		Indicators: Percentage of CPDLC implemented at oceanic and remote area FIRs Supporting metric: Number of CPDLC approved procedures over oceanic and remote areas		

ASBU B0-CCO: Planning Targets and Implementation Progress				
Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. CCO implementation		Indicator: Percentage of international aerodromes with CCO implemented Supporting metric: Number of international airport with CCO implemented		
2. PBN SIDs implementation		Indicator: Percentage of international aerodromes with PBN SIDs implemented Supporting metric: Number of international airport with PBN SIDs implemented		

1) Status of implementation of ASBU B0–DATM Module: Service Improvement through Digital Aeronautical Information Management

Elements	Applicability	Performance Indicators/Supporting Metrics	Targets	Status
1- National AIM Implementation Plan/Roadmap	All States	Indicator: % of States that have National AIM Implementation Plan/Roadmap Supporting Metric: Number of States that have National AIM Implementation Plan/Roadmap	80% by Dec. 2015 100% by Dec. 2018	88% (21 States)
2-AIXM	All States	Indicator: % of States that have implemented an AIXM-based AIS database Supporting Metric: Number of States that have implemented an AIXM-based AIS database	60% by Dec. 2015 80% by Dec. 2017 100% by Dec. 2019	33% (8 States)
3-eAIP	All States	Indicator: % of States that have implemented an IAID driven AIP Production (eAIP) Supporting Metric: Number of States that have implemented an IAID driven AIP Production (eAIP)	60% by Dec. 2015 80% by Dec. 2018 100% by Dec. 2020	33% (8 States)
4-QMS	All States	Indicator: % of States that have implemented QMS for AIS/AIM Supporting Metric: Number of States that have implemented QMS for AIS/AIM	60% by Dec. 2015 100% by Dec. 2018	66% (16 States)

1) Status of implementation of ASBU B0–DATM Module: Service Improvement through Digital Aeronautical Information Management

5-WGS-84	All States	Indicator: % of States that have implemented WGS-84 for horizontal plan (ENR, Terminal, AD) Supporting Metric: Number of States that have implemented WGS-84 for horizontal plan (ENR, Terminal, AD) Indicator: % of States that have implemented WGS-84 Geoid Undulation Supporting Metric: Number of States that have implemented WGS-84 Geoid Undulation	Horizontal: 100% by Dec. 2015 Vertical: 90% by Dec. 2018	100% (24 States) 42% (10 States)
6-eTOD	All States	Indicator: % of States that have implemented required Terrain datasets Supporting Metric: Number of States that have implemented required Terrain datasets Indicator: % of States that have implemented required Obstacle datasets Supporting Metric: Number of States that have implemented required Obstacle datasets	Area 1 : Terrain: 50% by Dec. 2015, 70% by Dec. 2018 Obstacles: 50% by Dec. 2015, 60% by Dec. 2018 Area 4: Terrain: 50% by	Area 1: Terrain: 33% (8 States) Obstacles: 33% (8 States) Area 4: Terrain: 33% (8 States) Obstacles:

1) Status of implementation of ASBU B0–DATM Module: Service Improvement through Digital Aeronautical Information Management

			Dec. 2015, 100% by Dec. 2018 Obstacles: 50% by Dec. 2015, 100% by Dec. 2018	33% (8 States)
7-Digital NOTAM*	All States	Indicator: % of States that have included the implementation of Digital NOTAM into their National Plan for the transition from AIS to AIM Supporting Metric: Number of States that have included the implementation of Digital NOTAM into their National Plan for the transition from AIS to AIM	50% by Dec. 2016 80% by Dec. 2018	0% (0 States)

2) ASBU B0-AMET: Planning Targets and Implementation Progress

Elements	**Applicability**	**Performance Indicators/Supporting Metrics**	**Targets**	**Status**
1. Forecasts provided by	WAFS/SADIS in all States	Indicator: States implementation of Satellite Distribution (SADIS) 2G and secure SADIS FTP Supporting metric: Number of States implementation of SADIS 2G and Secure SADFIS FTP	75% by December 2016 24 States	96 % (23/24 States had implemented)

2) ASBU B0-AMET: Planning Targets and Implementation Progress

Elements	Applicability	Performance Indicators/Supporting Metrics	Targets	Status
WAFCs, IAVW and TCAC				By October 2015
	IAVW in States with active volcanos, listed in Table MET I-1	Indicator: Percentage of international aerodromes/MWOs with IAVW procedure s implemented Supporting metric: Number of international aerodromes/MWOs with IAVW procedures implemented	75% by December 2016 5 States	75% (4/5 States had implemented) By October 2015
	TCAC in States where tropical cyclones occur, listed in Table MET II-1, column 8	Indicator: Percentage of international aerodromes/MWOs with tropical cyclone watch procedures implemented Supporting metric: Number of international aerodromes/MWOs with tropical cyclone watch	75% by December 2016 9 States	88,9 % (8/9 States had implemented) By November 2014 (SIGMET tests report)
2. Aerodrome warnings (AD WRNG, WS	AD WRNG in all States	Indicator: Percentage of international aerodromes/AMOs with Aerodrome warnings implemented Supporting metric: Number of international aerodromes/AMOs with Aerodrome warnings implemented	50% by December 2016	No change (data not available by reporting time)

2) ASBU B0-AMET: Planning Targets and Implementation Progress

Elements	Applicability	Performance Indicators/Supporting Metrics	Targets	Status
WRNG and alerts)			24 States	
	WS WRNG in aerodromes where WS occur	Indicator: Percentage of international aerodromes/AMOs with wind shear warnings procedures implemented Supporting metric: Number of international aerodromes/AMOs with wind shear warnings and alerts implemented	50% by December 2016 Number of States TBD	No change (data not available by reporting time)
3. SIGMET	States with MWO listed in Table MET II-1	Indicator: Percentage of international aerodromes/MWOs with SIGMET procedures implemented Supporting metric: Number of international aerodromes/MWOs with SIGMET procedures implemented	80% by December 2016 19 ESAF States	79,% (15/19 States had implemented) By November 2014 (SIGMET tests report)
4. QMS/ MET	All States	Indicator: Percentage of MET Provider Sates with QMS/MET implemented Supporting metric: Number of MET Provider Sates with QMS/MET certificated	75% by December 2016 24ESAF States	48% (11/24 States had implemented)

2) ASBU B0-AMET: Planning Targets and Implementation Progress

Elements	Applicability	Performance Indicators/Supporting Metrics	Targets	Status
				By October 2015
5. AMBEX	All States	Indicator: Percentage of MET Provider Sates aerodromes with AMBEX scheme implemented Supporting metric: Number of Aerodromes with more than 97% regular OPMET (METAR/TAF) available at AFI RODBs	80% by December 2016 80% by December 2016 • 65 aerodromes in ESAF for METAR • 50 aerodromes for TAF in 24 ESAF States	Incomplete data
6. Other OPMET Information (METAR, SPECI, TAF)	All States	Indicator: Percentage of MET Provider Sates aerodromes with METAR, SPECI, TAF implemented Supporting metric: Number of MET Provider Sates aerodromes with METAR, SPECI, TAF issued at scheduled times	80% by December 2016 • 65 aerodromes in ESAF for METAR • 50 aerodromes for TAF in 24 ESAF States	No change (data not available by reporting time)