

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

<b>ASBU B0-RSEQ: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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.		

<b>ASBU B0-APTA: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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.		

<b>B0-SURF: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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		

<b>B0-SURF: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
		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				

<b>ASBU B0-ACDM: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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		

<b>ASBU B0-FICE: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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 conn network		Indicator: Percentage of phases completed for the implementation of the AFI digital network Supporting metric: Number of phases implemented		

<b>ASBU B0-DATM: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	
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		

<b>ASBU B0-AMET: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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		

<b>ASBU B0-FRTO: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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 <sub>2</sub> reduction		

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

<b>ASBU B0-ASURF: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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		

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

<b>ASBU B0-SNET: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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)		

<b>ASBU B0-CDO: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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		

<b>ASBU B0-TBO: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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		

<b>ASBU B0-CCO: Planning Targets and Implementation Progress</b>				
<b>Elements</b>	<b>Applicability</b>	<b>Performance Indicators/Supporting Metrics</b>	<b>Targets</b>	<b>Status</b>
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**

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

**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 procedures 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	<p>Indicator: Percentage of MET Provider Sates aerodromes with AMBEX scheme implemented</p> <p>Supporting metric: Number of Aerodromes with more than 97% regular OPMET (METAR/TAF) available at AFI RODBs</p>	<p>80% by December 2016</p> <p>80% by December 2016</p> <ul style="list-style-type: none"> <li>• 65 aerodromes in ESAF for METAR</li> <li>• 50 aerodromes for TAF in 24 ESAF States</li> </ul>	Incomplete data
6. Other OPMET Information (METAR, SPECI, TAF)	All States	<p>Indicator: Percentage of MET Provider Sates aerodromes with METAR, SPECI, TAF implemented</p> <p>Supporting metric: Number of MET Provider Sates aerodromes with METAR, SPECI, TAF issued at scheduled times</p>	<p>80% by December 2016</p> <ul style="list-style-type: none"> <li>• 65 aerodromes in ESAF for METAR</li> <li>• 50 aerodromes for TAF in 24 ESAF States</li> </ul>	No change (data not available by reporting time )