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

	ASBU B0-RSEQ	: Planning Targets and Impl	ementation Prog	gress
Elements	Applicability	Performance Indicators/Supporting Metrics	Targets	Status
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 Impl	ementation Progress	
Element	ts	Applicability	Performance	Targets	Status
			Indicators/Supporting		
			Metrics		
	With Baro		Indicator: Percentage		
VNA	AV		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 SBA	V with AS		Not Applicable		
3. APV	V with		Indicator: Percentage		
GBA	AS		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	S	Applicability	Performance	Targets	Status
			Indicators/Supporting		
			Metrics		
	eillance		Indicator: Percentage		
	m for		of international		
	nd surface		aerodromes with SMR/		
	ement L, SSR,		SSR Mode S/ ADS-B		
	B or		Multilateration for		
	ilateration)		ground surface		
	ŕ		movement		
			Supporting metric:		
			Number of		
			international		
			aerodrome with SMR/		
			SSR Mode S/ ADS-B		
			Multilateration for		
			ground surface		
			movement		
2. Surve	eillance		Indicator: Percentage		
	m on		of surveillance system		
	d (SSR		on board (SSR		
ADS	ponder, - B		transponder, ADS-B		
capa			capacity)		
			Supporting metric:		
			Number of aircraft		
			with surveillance		
			system on board (SSR		
			transponder, ADS-B		
			capacity)		
	eillance		Indicator Percentage of		
	m for		international		
vehic	cie		aerodromes with a		
			cooperative		
			transponder systems on		
			vehicles		
			Supporting metric:		
			Number of vehicle		
			with surveillance		
			system installed		
	al aids for		Indicator: Percentage		
navig	gation		of international		
			aerodromes complying		
			with visual aid		

	B0-SURF: Pla	nning Targets and Impleme	entation Progress	
Elements	Applicability	Performance	Targets	Status
		Indicators/Supporting		
		Metrics		
		requirements as per		
		Annex 14		
		Supporting metric:		
		Number of		
		international		
		aerodromes complying		
		with visual aid		
		requirements as per		
		Annex 14		
5. Wild life strike		Indicator: Percentage		
hazard		of reduction of wildlife		
reduction		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	Targets	Status
		Indicators/Supporting		
		Metrics		
1. Airport –CDM		Indicator: Percentage		
		of international		
		aerodromes with		
		Airport-CDM		
		Supporting metric:		
		Number of		
		international		
		aerodromes with		
		Airport-CDM		
2. Aerodrome		Indicator: Percentage		
certification		of certified		
		international		
		aerodromes		
		Supporting metric:		
		Number of certified		
		international		
		aerodromes		
3. Airport		Indicator: Percentage		
Planning		of international		
		aerodromes with		
		Master Plans		
		Supporting metric:		
		Number of		
		international		
		aerodromes with		
		Master Plans		
4. Heliport		Indicator: Percentage		
Operations		of Heliports with		
		operational approval		
		Supporting metric:		
		Number of Heliports		
		with operational		
		approval		

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

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

	ASBU B0-AMET: P	lanning Targets and Impl	lementation Progress	
Elements	Applicability	Performance	Targets	Status
		Indicators/Supporting		
		Metrics		
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		Indicator: Percentage		
watch		of international		
		aerodromes/MWOs		
		with tropical cyclone		
		watch procedures		
		implemented		
		Supporting metric:		
		Number of		
		international		
		aerodromes/MWOs		
		with tropical cyclone		
		watch		
4. Aerodrome		Indicator: Percentage		
warnings		of international		
,		aerodromes/AMOs		
		with Aerodrome		
		warnings implemented		
		Supporting metric:		
		Number of		
		international		
		aerodromes/AMOs		
	1	with Aerodrome		

ASBU B0-AMET: Planning Targets and Implementation Progress				
Elements	Applicability	Performance	Targets	Status
		Indicators/Supporting		
		Metrics		
		warnings implemented		
5. Wind shear		Indicator: Percentage		
warnings and		of international		
alerts		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 Impl	ementation Prog	ress
Elements	Applicability	Performance Indicators/Supporting	Targets	Status
1 Airanaa		Metrics Not assigned Indicator		
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	Targets	Status
		Indicators/Supporting		
		Metrics		
		Indicator: % of		
4 4 5 55 66		implemented FMUs		
1. Air Traffic		Support Metric:		
Flow Management		Number of States with		
Management		ATFM units		
		implemented.		

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

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

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

	ASBU B0-CDO: P	lanning Targets and Imple	ementation Progress	
Elements	Applicability	Performance	Targets	Status
		Indicators/Supporting		
		Metrics		
1. CDO		Indicator: % of		
implementation		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: Pla	nning Targets and Imple	ementation Progress	
Elements	Applicability	Performance	Targets	Status
		Indicators/Supporting		
		Metrics		
1. ADS-C over		Indicators: Percentage		
oceanic and		of FIRs with ADS C		
remote areas		implemented		
		Supporting metric:		
		Number of ADS C		
		approved procedures		
		over oceanic and		
		remote areas		
2. Continental		Indicators: Percentage		
CPDLC		of CPDLC		
		implemented at oceanic		
		and remote area FIRs		
		Supporting metric:		
		Number of CPDLC		
		approved procedures		
		over oceanic and		
		remote areas		

	ASBU B0-CCO: Pla	ASBU B0-CCO: Planning Targets and Implementation Progress			
Elements	Applicability	Performance	Targets	Status	
		Indicators/Supporting			
		Metrics			
1. CCO		Indicator: Percentage			
implementation		of international			
		aerodromes with CCO			
		implemented			
		Supporting metric:			
		Number of			
		international airport			
		with CCO			
		implemented			
2. PBN SIDs		Indicator: Percentage			
implementation		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	Digital Aeronautical Information Management Performance Indicators/Supporting	Targets	Status
	rippiicuomey	Metrics	largets	Status
1- National	All States	Indicator: % of States that have National	80% by	88%
AIM		AIM Implementation Plan/Roadmap	Dec. 2015	(21
Implementation				States)
Plan/Roadmap				States)
		Supporting Metric: Number of States that		
		have National AIM Implementation	100% by	
		Plan/Roadmap	Dec. 2018	
			Bee. 2010	
2-AIXM	All States	Indicator: % of States that have implemented	60% by	33%
		an AIXM-based AIS database	Dec. 2015	(8 States)
				(o States)
		Supporting Metric: Number of States that	80% by	
		have implemented an AIXM-based AIS	Dec. 2017	
		database		
			100% by	
			Dec. 2019	
3-eAIP	All States	Indicator: % of States that have implemented	60% by	33%
		an IAID driven AIP Production (eAIP)	Dec. 2015	
				(8 States)
		Supporting Metric: Number of States that	80% by	
		have implemented an IAID driven AIP	Dec. 2018	
		Production (eAIP)		
			100% by	
			Dec. 2020	
4 OMS	A 11 Ct-t	Indicator 0/ of States that have invalue and	600/ h	660/
4-QMS	All States	Indicator: % of States that have implemented QMS for AIS/AIM	60% by Dec. 2015	66%
		Auto tot Uro'Wild	DCC. 2013	(16
				States)
		Supporting Metric: Number of States that		
		have implemented QMS for AIS/AIM		
		have implemented gives for Als/Allyl	100% by	
			Dec. 2018	

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

		Digital Aeronautical Information Managemen		
5-WGS-84	All States	Indicator: % of States that have implemented	Horizontal:	100%
		WGS-84 for horizontal plan (ENR, Terminal,	1000/ 1	(24
		AD)	100% by	(24
			Dec. 2015	States)
		Supporting Metric: Number of States that		
		have implemented WGS-84 for horizontal		
		plan (ENR, Terminal, AD)		
		plan (Elvk, Terminal, AD)	Vertical:	42%
			90% by	(10
		Indicator: % of States that have implemented	Dec. 2018	States)
		WGS-84 Geoid Undulation		
		Constitution National States (Los		
		Supporting Metric: Number of States that		
		have implemented WGS-84 Geoid		
		Undulation		
6-eTOD	All States	Indicator: % of States that have	Area 1:	Area 1:
o crob	7 III States	implemented required Terrain	riicu i .	Tirea 1.
		datasets	Terrain:	Terrain:
		datasets		
			50% by	33%
			Dec. 2015,	(0, C) (1)
		Supporting Metric: Number of	700/ 1	(8 States)
		States that have implemented	70% by	Obstacles:
		required Terrain datasets	Dec. 2018	Obstacies.
		T. II		33%
		Indicator: % of States that have		
		implemented required Obstacle	Obstacles:	(8 States)
		datasets		
			50% by	
			Dec. 2015,	Area 4:
		Supporting Metric: Number of States that	600/ 1	7110a 4.
		have implemented required Obstacle datasets	60% by	Terrain:
			Dec. 2018	
				33%
				(0, Q)
			Area 4:	(8 States)
				Obstacles:
			Terrain:	Oustacies.
			7 00/ 1	
			50% by	

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

	I	Digital Aeronautical Information Managemen		
			Dec. 2015,	33%
			100% by	(8 States)
			Dec. 2018	
			200. 2010	
			Obstacles:	
			Obstacles.	
			50% by	
			Dec. 2015,	
			DCC. 2013,	
			100% by	
			Dec. 2018	
			Dec. 2010	
7-Digital	All States	Indicator: % of States that have included the	50% by	0%
NOTAM*	7 III States	implementation of Digital NOTAM into their	Dec. 2016	070
NOTAW			Dec. 2010	(0 States)
		National Plan for the transition from AIS to		(o States)
		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		
		uansmon nom Als to Anvi	80% by	
			Dec. 2018	

Elements	Applicability	Performance Indicators/Supporting Metrics	Targets	Status
		Indicator: States implementation of Satellite Distribution (SADIS) 2G		
	WAFS/SADIS in all States	and secure SADIS FTP	75% by December 2016	96 %
		Supporting metric: Number of States implementation of SADIS 2G and Secure SADFIS FTP	2010	
			24 States	(23/24 States had
1. Forecasts provided by				implemented)

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

Applicability	Performance	Targets	Status
	Indicators/Supporting Metrics		
		24.5	
		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	No change (data not available by reporting time)
		States TBD	
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	79,% (15/19 States had implemented)
		19 ESAF States	
			By November 2014 (SIGMET tests report)
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)
	WS WRNG in aerodromes where WS occur States with MWO listed in Table MET II-1	WS WRNG in aerodromes where WS occur States with MWO listed in Table MET II-1 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 Indicator: Percentage of international aerodromes/MWOs with SIGMET procedures implemented Supporting metric: Number of international aerodromes/MWOs with SIGMET procedures implemented Indicator: Percentage of MET provider Sates with QMS/MET implemented Supporting metric: Number of MET Provider Sates with	Indicators/Supporting Metrics 24 States 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 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 Supporting metric: Number of international aerodromes/MWOs with SIGMET procedures implemented Indicator: Percentage of MET Provider Sates with QMS/MET implemented Indicator: Percentage of MET Provider Sates with QMS/MET implemented Supporting metric: Number of MET Provider Sates with QMS/MET certificated

Elements	Applicability	Performance	Targets	Status
		Indicators/Supporting Metrics		
				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 aerodrome s in ESAF for METAR 50 aerodrome s 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 aerodrome s in ESAF for METAR • 50 aerodrome s for TAF in 24 ESAF States	No change (data not available by reporting time)