

#### Summary Table of Aviation System Block Upgrades (ASBU) Block 0 Modules

#### National ASBU implementation Plan- Guidance on Elements, Equipage and Measurement EXPANATORY NOTES

**Introduction:** This document discusses ASBU Block 0 Modules, lists the elements it covers, identifies the equipage required both in the aircraft and on the ground, suggests ways to monitor implementation progress and explain qualitative benefits related to main five Key Performance Areas (KPAs). This document serves as a part of guidance material to States in the development of National ASBU implementation Plan.

Title of the Module: This box explains the title of the Module		
Elements:	Equipage/Air	Equipage/Ground
The elements of the Module are listed under this box.		_
Should there be elements that are not reflected in the ASBU Module but at the same time	This box describes what	This box describes what
they are closely linked to the module, those elements are also specified. For example, in	equipage is required in	equipage is required on
ASBU B0-ACDM, the elements aerodrome certification and data link applications-	the <i>aircraft</i> for the	the <i>ground</i> for the
D-VOLMET, D-ATIS, D-FIS are not included; Similarly in ASBU B0-DATM Module,	elements of this module	elements of this module
the elements WGS-84 and eTOD are not reflected.		

#### Implementation monitoring and intended performance impact

This box explains implementation progress of the Module and identifies qualitative performance benefits associated with five main KPAs only. This box contains two items.

- a) Indicators for monitoring the status of implementation the module;
- b) Qualitative performance benefits that allow assessing the benefits accrued as a result of implementation of that module. The benefits or expectations, also known as Key Performance Areas (KPAs are interrelated and cannot be considered in isolation since all are necessary for the achievement of the objectives established for the system as a whole. It should be noted that while safety is the highest priority, the eleven KPAs shown below are in alphabetical order as they would appear in English. They are access/equity; capacity; cost effectiveness; efficiency; environment; flexibility; global interoperability; participation of ATM community; predictability; safety; and security. However, out of these eleven KPAs, for the present, under this box only five have been selected for reporting through Air Navigation Report Form (ANRF), which are Access & Equity, Capacity, Efficiency, Environment and Safety.

#### List of Performance (Benefit) Metrics for ASBU Modules - Examples

It is not necessary that every module contributes to all of the five KPAs. Consequently, a limited number of metrics per type of KPA, serving to measure the module(s)' implementation benefits, without trying to apportion these benefits between module, have been identified at the end of this document. This approach would facilitate States in collecting data for the chosen metrics. States, however, could add new metrics for different KPAs based on maturity of the system and ability to collect relevant data.

Title of the Module: B0-APTA: Optimization of Approach Procedures Including Vertical Guidance									
Elements: 1. APV with Baro VNAV 2. APV with SBAS 3. APV with GBAS	<u>Eq</u> - I I - S	quipage/Air       Equipage/Ground         Basic IFR GNSS avionics integrated with Baro VNAV functionality       - SBAS (reference stations, master GEO satellites)         SBAS avionics       - GBAS			tions, master stations,				
Implementation monitoring	Implementation monitoring and intended performance impact								
<u>Implementation progress</u>		Qualitative performa	nce benefits associated	with five main KPAs onl	y				
1. Indicator:	KPA-Access/Equity	<b>KPA-Capacity</b>	KPA-Efficiency	KPA-Environment	KPA-Safety				
Percentage of international	Increased	Increased runway	Reduced fuel burn	Reduced emissions	Increased safety				
aerodromes having	aerodrome	capacity	due to lower	due to reduced fuel	through stabilized				
instrument runways	accessibility		minima, fewer	burn.	approach paths.				
provided with APV on the	-		diversions,						
basis of			cancellations, delays						
Baro VNAV/SBAS/GBAS									

Title of the Module: B0-WAKE: Increased Runway Throughput through optimized Wake Turbulence Separation							
Elements 1. Revision of current ICAO wake separation minima 2. Increasing International aerodrome Arrival Operational Capacity 3. Increasing International aerodrome Departure Operational Capacity		Equipage/Air - Nil		<ul> <li>Equipage/Ground</li> <li>A support tool to aid in the application of the new set of 6 categories of ICAO wakes separation.</li> <li>Wind sensors and automation support is needed for element 3</li> </ul>			
Implementation monitoring	and intended per	forma	ance impact				
Implementation progress		(	Qualitative performance benefits associated with five main KPAs only			ly	
1. Indicator:	KPA-Access/Equ	uit <u>y</u>	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety	
Percentage of international aerodromes applying the 6 categories of wake vortex separation.	Not Applicable		Aerodrome capacity and departure/arrival rates will increase as the wake categories are increased from 3 to 6	Not Applicable	Not Applicable	Not Applicable	

Title of the Module: B0-SURF: Safety and Efficie	ency of Surface Opera	tions (A-SMGCS Leve	el 1-2)		
Elements	<del></del>	Equipage/Air	· · · · · · · · · · · · · · · · · · ·	Equipage/Ground	
1. Surveillance	-	ADS-B / SSR transpor	nder system -	- SMR/SSR Mode S/ A	DS B/ Multilateration
2. Alerting systems			-	Surveillance display	with alerting
3. (Not included in the Module				functionalities in the	tower.
they are closely linked to thi			-	<ul> <li>A cooperative transport</li> </ul>	onder system for
aids for navigation and Wild	life strike hazard			vehicles	
reduction			-	<ul> <li>Visual aids for naviga</li> </ul>	ntion
Implementation monitoring	and intended perform				
<u>Implementation progress</u>		Qualitative performance	e benefits associated v	vith five main KPAs on	ly
1. Indicator:	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	<b>KPA-Environment</b>	KPA-Safety
Percentage of international	Improves KPA-	Sustained level of	Reduced taxi times	Reduced emissions	Reduced runway
aerodromes with SMR/SSR	Access/Equity to	aerodrome capacity	through diminished	due to reduced fuel	incursions. Improved
Mode S/ADS-B	portions of the	during periods of	requirements for	burn	response to unsafe
Multilateration	manoeuvring area	reduced visibility	intermediate		situations. Improved
	obscured from view		holdings based on		situational awareness
2. Indicator:	of the control tower		reliance on visual		leading to reduced
Percentage of international	for vehicles and		surveillance only.		ATC workload.
aerodromes with a	aircraft. Ensures		Reduced fuel burn.		
cooperative transponder	equity in ATC				
systems on vehicles	handling of surface				
	traffic regardless of				
3. Indicator:	the traffic's position				
Percentage of international	on the international				
aerodromes complying with	aerodrome.				
visual aid requirements as					
per Annex 14					

Title of the Module:	mout Onewations the	uou ala	Aimout CDM			
B0-ACDM; Improved Air Elements:	rport Operations in		page/Air		Equipage/Ground	
1. Airport –CDM		- Nil	. •	'	- Interconnection of grou	and evetame of
2.(Not included in the Mod	ule hut added here	- 1111			different partners for Ai	•
as they are closely linked to					- Rescue and Fire Fightin	•
Aerodrome certification, A	-				as per Annexe 14	ig (KrT) Equipment
emergency planning, Airpo					as per Annexe 14	
Heliport operations	it planning and					
Implementation monitori	ng and intended ner	forms	ance impact			
Implementation progress			ualitative performance be	enefits associated wi	th five main KPAs only	
1. Indicator:	KPA-Access/Equity		KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety
percentage of	Enhances equity on		Enhanced use of	Improved	Reduced emissions	Not Applicable
international aerodromes	use of aerodrome	tiic	existing	operational	due to reduced fuel	1 vot 7 ipplicable
with Airport-CDM	facilities.		Implementation of	efficiency (fleet	burn	
www.rm.port CBM	racinties.		gate and stands	management); and		
2. Indicator:			(unlock latent	reduced delay.		
Percentage of certified			capacity).	Reduced fuel burn		
international aerodromes			Reduced workload,	due to reduced taxi		
			better organization of	time and lower		
3. Indicator:			the activities to	aircraft engine run		
Percentage of			manage flights.	time.		
international aerodromes						
with RFF equipment as						
per Annex 14						

Title of the Module: B0-RSEQ: Improve Traffic Flow Through Runway Sequencing (AMAN/DMAN)									
Elements:	<u>E</u>	quipage/Air		Equipage/Ground					
1.AMAN	-	Nil		- Automation support					
2.DMAN									
Implementation monitori	ng and intended perfo	rmance impact							
<u>Implementation progress</u>		Qualitative performa	nce benefits associated v	vith five main KPAs only	7				
1. Indicator:	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety				
Percentage of	Not Applicable	Time-based	Efficiency is	Not Applicable	Not Applicable				
international aerodromes		metering will	positively impacted						
with AMAN/DMAN		optimize usage of	as reflected by						
		terminal airspace	increased runway						
		and runway	throughput and						
		capacity.	arrival rates.						

## Performance Improvement Area 2: Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management

Title of the Module:								
B0-FICE: Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration								
Elements:		Equipage	e/Air		Equipage/Ground			
1.AIDC		- Nil		-	A set of AIDC messa	ges in FDPS		
2.(Not included in the Mod	lule but added here			-	AFTN (AMHS/IPS)			
as they are closely linked	to this Module)							
AMHS/IPS								
Implementation monitori	ng and intended per							
<u>Implementation progress</u>					h five main KPAs only			
1. Indicator:	KPA-Access/Equity		PA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety		
Percentage of ATS units	Not Applicable	Re	educed controller	The reduced	Not Applicable	Better knowledge of		
with AIDC		W	orkload and	separation can also		more accurate flight		
		ind	creased data	be used to more		plan information.		
2. Indicator:			tegrity supporting	frequently offer				
States implementing			duced separations	aircraft flight levels				
AMHS/IPS			anslating directly	closer to the				
			cross sector or	optimum; in certain				
			oundary capacity	cases, this also				
		flo	ow increases.	translates into				
				reduced en-route				
				holding.				

## Performance Improvement Area 2: Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management

<b>Title of the Module:</b>					
B0-DATM; Service Impression   Elements: 1.AIXM 2.eAIP 3.Digital NOTAM 4.(Not included in the Modas they are closely linked	ule but added here to this Module)	ital Aeronautical Info Equipage/Air · Nil	ormation Management	Equipage/Ground AIXM; eAIP and Digit WGS-84; eTOD; QMS The aeronautical infort available to external us subscription to an elect	S for AIM mation is made sers via either a tronic access or
WGS-84; eTOD; and QM	IS for AIM			physical delivery; The be based on Internet pr	
Implementation monitori	ng and intended perf	ormance impact			
Implementation progress		Qualitative performa	ance benefits associated	with five main KPAs onl	y
1. Indicator: States implementing AIXM; eAIP, Digital NOTAM WGS-84; eTOD; QMS for AIM	KPA-Access/Equity Not Applicable	KPA-Capacity Not Applicable	KPA-Efficiency Not Applicable	KPA-Environment Reduced amount of paper for promulgation of information	KPA-Safety Reduction in the number of possible inconsistencies

## Performance Improvement Area 2: Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management

Title of the Module: B0-AMET: Meteorological	information suppo	rting e	enhanced operati	onal efficiency and safe	etv		
Elements:		Equipa	age/Air	·	Equipage/Ground	70 . 11'. 1 11'	
1.WAFS-IAVW-TCW 2.Aerodrome warning, wind	shear warning	- Nil			Internet distribution s	FS satellite and public	
and alerts	Silear warming				- Connection to the Al	•	
3.SIGMET information					- Local arrangements	for reception of	
					aerodrome warning,	wind shear warning	
Implementation manitarine	and intended new	Formon	nao impost		and alerts		
Implementation monitoring	g and intended peri			1 6.4	'.1 C' ' TZDA 1		
<u>Implementation progress</u>					with five main KPAs only		
1 Indicator:	KPA-Access/Equit	ty K	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety	
States implementation of	Not Applicable		Optimized usage	Reduced	Reduced emissions	Reduced	
SADIS 2G satellite		of	of airspace and	arrival/departure	due to reduced fuel	incidents/accidents in	
broadcast and/or Secure		ae	erodrome	holding time, thus	burn due to MET	flight and at	
SADIS FTP service.		ca	apacity due to	reduced fuel burn due	support	international	
		M	MET support	to MET support		aerodromes due to	
2. Indicator:						MET support.	
States implementation of							
WAFS Internet File Service							
(WIFS)							

Title of the Module:								
B0-FRTO: Improved Operations through Enhanced En-Route Trajectories								
Elements:		Equ	iipage/Air		Equipage/Ground			
1. Airspace planning		- FA	ANS 1/A and ACARS		- CDM through Interne	et portal		
2. Flexible Use of airspace								
3. Flexible Routing								
Implementation monitoring	g and intended perf							
<u>Implementation progress</u>			Qualitative performance	T T T T T T T T T T T T T T T T T T T				
1. Indicator: Percentage of	KPA-Access/Equit	y	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety		
time segregated airspaces	Better access to		Flexible routing	In particular the	Fuel burn and	Not Applicable		
are available for civil	airspace by a		reduces potential	module will reduce	emissions will be			
operations in the State	reduction of the		congestion on trunk	flight length and	reduced.			
	permanently		routes and at busy	related fuel burn				
2. Indicator:	segregated volumes	S	crossing points. The	and emissions. The				
Percentage of PBN routes	of airspace.		flexible use of	module will reduce				
implemented			airspace gives greater	the number of flight				
			possibilities to	diversions and				
			separate flights	cancellations. It				
			horizontally. PBN	will also better				
			helps to reduce route	allow avoiding				
			spacing and aircraft	noise sensitive				
			separations.	areas.				

Title of the Module: B0-NOPS: Improved Flow Performance through Planning based on a Network-Wide view								
<del></del>		Equipage/Air - Nil			Equipage/Ground - System software for ATFM			
Implementation monitoring	g and intended perfo	rma	ınce impact					
<u>Implementation progress</u>		Q	ualitative performance	benefits associated w	ith five main KPAs onl	y		
1. Indicator:	KPA-Access/Equity		KPA-Capacity	KPA-Efficiency	<b>KPA-Environment</b>	KPA-Safety		
Percentage of ATS units	Improved Access an	d	Better utilization of	Reduced fuel burn	Reduced fuel burn	Reduced occurrences		
using ATFM services.	equity in the use of airspace or aerodron	16	available capacity, ability to anticipate	due to better anticipation of flow	as delays are absorbed on the	of undesired sector		
	by avoiding disrupti		difficult situations	issues; Reduced	ground, with shut	Overloads		
	of air traffic. ATFM		and mitigate them	block times and	engines; or at			
	processes take care of	of	in advance.	times with engines	optimum flight			
	equitable distribution	n		on.	levels through			
	of delays.				speed or route			
	-				management.			

Title of the Module:								
B0-ASUR: Initial capability for ground surveillance								
Elements:		<u>Equi</u>	page/Air		Equipage/Ground			
1.ADS-B		- AI	DS-B OUT.		- FDPS and SDPS			
2. Multilateration		- M	ode S radar transponde	ers for	- ADS-B			
		M	ultilateration		- Multilateration			
Implementation monitori	ng and intended per	forma	ance impact					
Implementation progress		Q۱	ualitative performance	benefits associated v	vith five main KPAs only	1		
1. Indicator: Percentage	KPA-Access/Equity		KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety		
of international	Not Applicable	,	Typical separation	Not Applicable	Not Applicable	Reduction of the		
aerodromes with			minima are 3 NM or			number of major		
ADS-B/MLAT			5 NM enabling an			incidents. Support to		
			increase in traffic			search and rescue.		
			density compared to					
			procedural minima.					
		1	TMA surveillance					
			performance					
			improvements are					
			achieved through					
		]	high accuracy, better					
			velocity vector and					
			improved coverage.					

Title of the Module: B0-ASEP: Air Traffic Situational Awareness(ATSA)							
Elements: 1.ATSA-AIRB 2.ATSA-VSA		Equipage/Air - ADS-B OUT - ADS-B IN		Equipage/Ground - Nil			
Implementation monitoring		raffic display nance impact					
Implementation progress		Qualitative perform	ance benefits associated	with five main KPAs onl	y		
1. Indicator: Percentage of	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety		
aircraft with ADS-B OUT  2. Indicator: Percentage of aircraft with ADS-B IN	Not Applicable	Not Applicable	Improved situational awareness in identifying level change opportunities with current separation minima (AIRB) and improved visual acquisition (VSA).	Not Applicable	Improved situational awareness and reduced likelihood of wake turbulence encounters and missed approaches.		

Title of the Module: B0-OPFL: Improved KPA-Access/Equity to Optimum Flight Levels through Climb/Descent Procedures using ADS-B							
Elements: ITP using ADS-B	Equipage/Air - ADS-B IN - ADS-B OUT			Equipage/Ground - Conflict probe logics			
Implementation monitoring							
<u>Implementation progress</u>	(	Qualitative performance benefits associated with five main KPAs only					
1. Indicator: Percentage of	KPA-Access/Equity	<b>KPA-Capacity</b>	<b>KPA-Efficiency</b>	KPA-Environment	KPA-Safety		
aircraft used ITP	Not Applicable	Improvement in	Increased	Reduced emissions	A reduction of		
		capacity on a	efficiency on		possible injuries for		
		given air route.	oceanic and		cabin crew and		
			potentially		passengers.		
			continental en-				
			route				

Title of the Module: B0-ACAS: ACAS Improvements								
Elements: ACAS II (TCAS version 7.1				<u>Equipage/Ground</u> Nil				
Implementation monitoring		nance impact	<u>,                                      </u>					
<u>Implementation progress</u>		Qualitative performance	ce benefits associated wit	h five main KPAs only				
1. Indicator: Percentage of	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety			
aircraft with	Not Applicable	Not Applicable	ACAS improvement	Not Applicable	ACAS increases			
ACAS, logic Version 7.1			will reduce		safety in the case			
			unnecessary resolution		of breakdown of			
			advisory (RA) and		separation.			
			then reduce trajectory		•			
			deviations.					

Title of the Module: B0-SNET: Increased Effectiveness of Ground-Based Safety Nets							
Elements:  1. Short Term Conflict Alert (STCA)  2. Area Proximity Warning (APW)  3. Minimum Safe Altitude Warning (MSAW)		Equipage/Air - SSR Mode C/S transponder - ADS-B OUT		Equipage/Ground - Short Term Conflict Alert, - Area Proximity Warnings and - Minimum Safe Altitude Warnings			
<b>Implementation monitorin</b>	g and intended per	forman	ice impact				
Implementation progress	Qualitative performance benefits associated				with five main KPAs on	ly	
1. Indicator:	KPA-Access/Equi	<u>ty</u>	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety	
Percentage of ATS units with ground based safety nets	Not Applicable	-	Not Applicable	Not Applicable	Not Applicable	Significant reduction of the number of major incidents	

## Performance Improvement Area 4: Efficient Flight Path – Through Trajectory-based Operations

Title of the Module:						
B0-CDO: Improved Flexibility and Efficiency in Descent Profiles (CDO)						
Elements:		Equipage/Air			Equipage/Ground	
1. CDO		- Nil			- Nil	
2. PBN STARs						
Implementation monitoring	g and intended per	forma	nce impact			
<u>Implementation progress</u>		Q	ualitative perform	ance benefits associated	with five main KPAs onl	y
1. Indicator: Percentage of	KPA-Access/Equi	ty	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-safety
international aerodromes	Not Applicable		Not Applicable	Cost savings through	Reduced emissions as	More consistent flight
with CDO implemented				reduced fuel burn.	a result of reduced	paths and stabilized
				Reduction in the	fuel burn	approach paths.
2. Indicator: <i>Percentage of</i>				number of required		Reduction in the
international				radio transmissions.		incidence of
aerodromes/TMAs with						controlled flight into
PBN STARs implemented						terrain (CFIT).

## Performance Improvement Area 4: Efficient Flight Path – Through Trajectory-based Operations

Title of the Module: B0-TBO: Improved Safety and Efficiency through the initial application of Data Link En-Route						
Elements: 1.ADS-C over oceanic and remote areas 2.Continental CPDLC		Equipage/Air - FANS 1/A; ATN B1		<ul><li><u>Equipage/Ground</u></li><li>ADS-C</li><li>VDL Mode 2/Continental CPDLC</li></ul>		
Implementation monitori	ng and intended per	rforma	nce impact			
Implementation progress		Qι	alitative performance be	enefits associated wi	th five main KPAs only	
1. Indicator: Number of ADS-C /CPDLC procedures available over oceanic and remote Areas	KPA-Access/Equit Not Applicable	<u>y</u>	KPA-Capacity A better localization of traffic and reduced separation allow increased capacity. Reduced communication workload and better organization of controller tasks allowing increasing sector capacity.	KPA-Efficiency Routes/tracks and flights can be separated by reduced minima, allowing to apply flexible routings and vertical profile closer to the user- preferred ones.	KPA-Environment Reduced emissions as a result of reduced fuel burn.	KPA-afety ADS-C based safety nets supports cleared level adherence monitoring, route adherence monitoring, danger area infringement warning and improved search and rescue. Reduced occurrences of misunderstandings; solution to stuck microphone

## Performance Improvement Area 4: Efficient Flight Path – Through Trajectory-based Operations

Title of the Module: B0-CCO: Improved Flexibility and Efficiency in Departure Profiles (CCO)							
Elements:		quipage/Air		Equipage/Ground			
1.CCO	-	Nil		- Nil			
2.PBN SIDs							
Implementation monitoring	g and intended perfor						
<u>Implementation progress</u>		_	ance benefits associated				
1. Indicator: Percentage of	KPA-Access/Equity	<b>KPA-Capacity</b>	KPA-Efficiency	KPA-Environment	KPA-Safety		
international aerodromes	Not Applicable	Not Applicable	Cost savings through	Authorization of	More consistent flight		
with CCO implemented			reduced fuel burn and	operations where	paths. Reduction in		
			efficient aircraft	noise limitations	the number of		
2. Indicator: <i>Percentage of</i>			operating profiles.	would otherwise	required radio		
international aerodromes			Reduction in the	result in operations	transmissions.		
with PBN SIDs			number of required	being curtailed or	Lower pilot and air		
implemented			radio transmissions.	restricted.	traffic control		
				Environmental	workload		
				benefits through			
				reduced emissions.			

#### LIST OF PERFORMANCE (BENEFIT) METRICS FOR ASBU MODULES - EXAMPLES

Key Performance Area	Related Performance Metrics				
1. Access & Equity	1. KPA/Access: Number of international aerodromes with APV				
	2. KPA/Access: Percentage of time Special Use Airspace (SUA) available to Civil Operations				
	3. KPA/Access: Percentage of requested flight level versus cleared flight level				
	4. KPA/Access: Number of access denials due to equipment failure				
	5. KPA/Equity: Percentage of aircraft operators by class who consider that equity is achieved				
	6. KPA/Equity: Percentage of different types of aircraft operating in a particular airspace or international aerodrome.				
2. Capacity	1. Number of operations (arrivals+departures) per international aerodrome per day				
	2. Average ATFM delay per flight at an international aerodrome				
	3. Number of landings before and after APV per international aerodrome				
	4. Average en-route ATFM delay generated by airspace volume				
	5. Number of aircraft in a defined volume of airspace for a period of time				
3. Cost effectiveness	1. IFR movements per ATCO hour on duty				
	2. IFR flights (en-route) per ATCO hour duty				
4. Efficiency	1. Kilograms of fuel saved per flight				
	2. Average ATFM delay per flight at the international aerodrome				
	3. Percentage of PBN routes				
5. Environment	1. Kilograms of CO <sub>2</sub> emissions reduced per flight (= KGs fuel saved per flight x 3.157)				
	2. The number of electronic pages dispatched				
6. Flexibility	1. Number of backups available in emergency				
	2. Number of changes approved to the flight plan				
	3. Number of alternatives granted				
7. Global Interoperability	1. Number of ATC automated systems that are interconnected				
8. Participation of the ATM	1. Level of participation in meetings				
Community	2. Level of responses to planning activities				
9. Predictability	1. Arrival/departure delay (in minutes) at international aerodrome				

Key Performance Area	Related Performance Metrics					
10. Safety	1. Number of runway incursions per international aerodrome per year					
	2. Number of incidents/accidents with MET conditions as a sole or as a contributory factor					
	3. Number of ACAS RA events					
4. Number of CFIT accidents						
	5.Number of missed approaches avoided due to use of CDO					
11. Security	Not Applicable					

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