

OPTIMIZATION OF THE ATS ROUTE STRUCTURE IN EN-ROUTE AIRSPACE

2. OPTIMIZATION OF THE ATS ROUTE STRUCTURE IN EN-ROUTE AIRSPACE				
Benefits				
Environment	<ul style="list-style-type: none"> Reduction in gas emissions 			
Efficiency	<ul style="list-style-type: none"> Ability of aircraft to conduct flight more closely to preferred trajectories Increase in airspace capacity Facilitate utilization of advanced technologies (e.g. FMS-based arrivals) and ATC decision support tools (e.g. metering and sequencing), thereby increasing efficiency 			
Strategy				
ATM OC COMPONENTS	TASKS	TIMEFRAME START-END	RESPONSIBILITY	STATUS
AOM	a) all States in AFI Region to develop Nation PBN implementation plans in relation to AFI PBN plan.	Oct 2013 – Dec 2015	States	On-going
	b) create a National A-CDM implementation plan based on key access points	Oct 2013 – Dec 2020	States	On-going
	c) establish collaborative decision making (CDM) process for creating CDM process within the State	Oct 2013 – Dec 2016	States	Valid
	d) develop airspace concept based on AFI PBN regional implementation plan, in order to design and implement a trunk route network, connecting major city pairs in the upper airspace and for transit to/from aerodromes, on the basis of PBN: RNAV 10 implementation taking into account interregional harmonization	2010-2012	APIRG/States	Completed (RNAV 10 implemented in oceanic airspace (Route network group established 2010))
	e) develop airspace concept based on AFI PBN regional implementation plan, in order to design and implement a trunk route network, connecting major city pairs in the upper airspace and for transit to/from aerodromes, on the basis of PBN: RNAV 5 implementation and taking into account interregional harmonization	2013 – Dec 2017	APIRG/States	On going (Route network group established 2010)
	f) harmonize national and regional PBN implementation plans	2013-Dec 2016	APIRG/States	On-going
	g) develop performance measurement plan	2010- Dec 2015	States	On-going
	h) formulate PBN safety plan to obtain acceptable level of safety	2010- Dec 2015	States	On-going
	i) identify training needs and develop corresponding guidelines	2010- Dec 2015	States	On-going
	j) use Safety Programmes and SMS methodologies in control and mitigation of risks in the region.	2010-Dec 2015	States	On-going
	k) identify training programmes and	2010- Dec	APIRG/States	On-going

	develop corresponding guidelines	2015		
	l) formulate system performance monitoring plan (PBN Implementation)	2010-Dec 2016	APIRG/States	On-going
	m) implementation of en-route PBN ATS/RNAV routes	2010-2014	APIRG/States	In progress
	n) monitor implementation progress in accordance with AFI PBN implementation plan and State implementation plan	2010 and beyond	APIRG/States	On-going
Linkage to GPIs	GPI/2: Performance-based navigation; GPI/7: Dynamic and flexible ATS route management; GPI/8: collaborative airspace design and management; GPI/10: terminal area design and management; GPI/11: RNP and RNAV SIDs and STARs; GPI/12 FMS-based arrival procedures			