

ECIP		Achieved								PE	
AOM18		Implement ATS Route Network (ARN) - Version 6									
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP	

Subject matter and scope

Develop, validate and implement ARN Version 6 in accordance with Advance Airspace Scheme principles and taking into account military requirements to further optimise airspace structures (route/sector and terminal airspace) across airspace boundaries between States and better align routes and sectors with traffic flows to facilitate flexible and dynamic airspace capacity management and offer route options closer to the preferred route. Include development and validation of pre-defined routing and sector configuration scenarios in support of D-MEAN

Applicability Area(s) & Timescale(s)

APP AREA				
Timescales:		From:	By:	Applicable to:
Initial operational capability		01/10/2007		APP AREA
Full operational capability			31/12/2009	APP AREA

References

European ATM Master Plan

Ol step -	<a href="#">[AOM-0401]-Multiple Route Options &amp; Airspace Organisation Scenarios</a>									
	Enablers -	None								
Ol step -	<a href="#">[AOM-0402]-Further Improvements to Route Network and Airspace incl. Cross-Border Sectorisation and Further Routing Options</a>									
	Enablers -	None								
Ol step -	<a href="#">[AOM-0801]-Flexible Sectorisation Management</a>									
	Enablers -	NIMS-10	PRO-026							
Ol step -	<a href="#">[AOM-0802]-Modular Sectorisation Adapted to Variations in Traffic Flows</a>									
	Enablers -	NIMS-10	PRO-016	PRO-191						

Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ-003	Not covered in the Implementation Plan
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Applicable legislation

Regulation (EC) No 549/2004 of 10 March 2004 laying down the framework for the creation of the single European sky (the framework Regulation)
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Essential Operational Changes

- none -
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SESAR Solution

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ICAO GANP - ASBUs

- none -
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Deployment Programme

- none -
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European Plan for Aviation Safety

- none -
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Operating Environments

<b>AOM18</b>	<b>Implement ATS Route Network (ARN) - Version 6</b>
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En-Route Network
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### Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By	
AOM18-ASP01	Implement national route structure changes	01/10/2007	31/12/2009	M
AOM18-ASP02	Ensure compatibility of en-route and terminal airspace	01/09/2006	31/12/2008	
AOM18-USE01	Adapt flight planning	01/09/2006	31/12/2009	M
AOM18-INT01	Amend EUR Regional Plan	04/07/2014	31/12/2009	
AOM18-AGY01	Develop and validate ARN V6	FINALISED		
AOM18-AGY02	Adapt ATFM processes and procedures	FINALISED		
Description of finalised and deleted SLoAs is available on the eATM Portal @ <a href="https://www.eatmportal.eu/working/depl/essip_objectives">https://www.eatmportal.eu/working/depl/essip_objectives</a>				

### Expected Performance Benefits

<b>Safety:</b>	Some enhancement through reduction in controller workload.
<b>Capacity:</b>	Increased through reduction in conflict points, and specialisation of routes and sectors to enhance productivity and reduce controller workload.
<b>Operational Efficiency:</b>	-
<b>Cost Efficiency:</b>	Savings in route distances in some States as well as better fuel efficiency through increased use of preferred flight profiles and improved sectorisation.
<b>Environment:</b>	Reductions in emissions through use of more optimal routes.
<b>Security:</b>	-

### Detailed SLoA Descriptions

<b>AOM18-ASP01</b>	<b>Implement national route structure changes</b>	<b>From:</b> 01/10/2007	<b>By:</b> 31/12/2009
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Implement route modifications, and where necessary sector changes, to accommodate ARN Version 6 route structure, amend supporting systems, amend and publish route changes in accordance to AIRAC requirements, and train staff in new route/sector configurations.		
<b>Specific applicability:</b>	<a href="#">ECAC States</a>		
<b>Finalisation criteria:</b>	Amendments to AIPs, etc.		
<b>AOM18-ASP02</b>	<b>Ensure compatibility of en-route and terminal airspace</b>	<b>From:</b> 01/09/2006	<b>By:</b> 31/12/2008
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Ensure viability and connectivity between en-route and terminal airspace changes		
<b>Specific applicability:</b>	<a href="#">ECAC States</a>		
<b>Finalisation criteria:</b>	Amendments of AIPs, where necessary		
<b>AOM18-USE01</b>	<b>Adapt flight planning</b>	<b>From:</b> 01/09/2006	<b>By:</b> 31/12/2009
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	Adapt flight planning procedures and systems to take account of ARN Version 6 route structure.		
<b>Specific applicability:</b>	<a href="#">All airspace users</a>		
<b>Finalisation criteria:</b>	Changes to flight planning systems and procedures and to FMS completed.		
<b>AOM18-INT01</b>	<b>Amend EUR Regional Plan</b>	<b>From:</b> 04/07/2014	<b>By:</b> 31/12/2009
<b>Action by:</b>	<b>CND</b>		
<b>Description &amp; purpose:</b>	Gain States endorsement of route changes and co-ordinate changes to ICAO EUR Regional Plan to reflect ARN Version 6 route structures.		
<b>Specific applicability:</b>	<a href="#">ECAC States</a>		
<b>Finalisation criteria:</b>	ICAO Plan amended.		
<b>AOM18-AGY01</b>	<b>Develop and validate ARN V6</b>	<b>From:</b> 01/09/2006	<b>By:</b> 31/12/2008

AOM18		Implement ATS Route Network (ARN) - Version 6	
Action by:	CND		
Description & purpose:	Develop and validate ARN Version 6 route structure.		
Finalisation criteria:	1. Completion of simulation validation activities. 2. Agreement of States to proposed changes (via the ANT and RND SG). Medium Term Improvement Process ARN V6 Catalogue: <a href="http://www.eurocontrol.int/airspace/gallery/content/public/documents/Catalogue%20ARN%20Version-6_final%20V1_2.pdf">http://www.eurocontrol.int/airspace/gallery/content/public/documents/Catalogue%20ARN%20Version-6_final%20V1_2.pdf</a>		
AOM18-AGY02	Adapt ATFM processes and procedures	From:	By:
		01/09/2006	31/12/2008
Action by:	EUROCONTROL Agency		
Description & purpose:	CFMU to adapt ATFM processes and procedures as necessary to accommodate ARN V6 route structure.		
Specific applicability:	For ECAC States' airspace		
Finalisation criteria:	Completion of changes.		