

CP1		Active							ECAC+	
AOM19.5		ASM and A-FUA								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

## Subject matter and scope

Airspace Management (ASM) and Advanced Flexible Use of Airspace (A-FUA) aim to provide most efficient airspace organisation and management in response to civil and military airspace users' requirements after completion of an enhanced CDM process among all concerned partners. ASM with A-FUA provides a solution for dynamically managing airspace users' demands in various operating environments regardless of national boundaries.

ASM procedures and processes shall facilitate a dynamic management of airspace structures, such as variable profile area ('VPA'), temporary restricted/reserved area ('TRA') and temporary segregated area ('TSA'). The ASM process must promote cross border operations, e.g. establishment of Cross-border areas, to improve the efficiency in airspace utilisation (more flexible solutions available), satisfying civil and military requirements. The ASM system shall support cross-border activities resulting in shared use of volume of airspace regardless of national boundaries.

The process starts at strategic level (ASM level 1) with the involvement of relevant civil and military ATM partners to ensure the optimal airspace organisation and efficient rules, including priority rules, for the management of airspace structures during pre-tactical (ASM level 2) and tactical (ASM level 3) phases.

Along all phases, local and NM systems will use and exchange coherent and updated aeronautical/airspace data, made available to airspace users. This enables planning to be undertaken on the basis of accurate information relevant to the time of the planned operations.

A rolling process in the pre-tactical and tactical phase will support the continuous exchange of ASM data among all concerned ATM partners. A CDM process between all involved operational stakeholders will enhance the daily Network Operations Plan (NOP) by identifying the most suitable solutions for the allocation of airspace structures to satisfy both civil and military requirements aiming at improving the performance of the European route network.

In the pre-tactical phase, an enhanced notification process to AOs/CFSPs will ensure common awareness of the airspace availability and provide the opportunities for more efficient flight trajectories, contributing to environment performance achievements.

In the tactical phase, ASM information, such as pre-notification of activation, notification of activation, de-activation, modification and release of airspace structures, is shared between ASM systems and affected civil and military ATS units/systems in order to enhance ATCOs' situational awareness regarding the actual status of airspace reservations and thus, to ensure safety.

The ASM support systems (LARA or equivalent) shall:

- support cross-border activities resulting in shared use of volume of airspace regardless of national boundaries;
- be interoperable with neighbouring ASM systems, whenever required, to support cross-border operations;
- support the continuous exchange of ASM information with NM system for the rolling AUP and UUP;
- support the new AUP template content and format containing additional information such as NPZ and FUA group restrictions;
- ensure the utilisation of airspace data aligned with the centralised airspace data provided by NM system;
- exchange airspace status data with ATC system;
- support exchange of airspace data according to SWIM requirements as described in SDP Family 5.3.1, where SWIM is available.

In alternative to deploying ASM support systems, States may decide to fully rely on NM applications and system capabilities such as CIAM and its further developments and migration to NES. .

The Network Manager system shall:

- reflect the changes in the status of airspace structures such as VPA, TSA, TRA as well as routes in order to notify updated information to ANSP systems, AUs/CFSPs in a timely manner;
- provide EAUP/EUUP information;
- provide a centralised airspace data information supporting the ASM process.

AU systems shall be interoperable with NM system to retrieve up-to-date airspace status information, to file and modify flight plans based on timely and accurate information.

ATC systems shall correctly depict the activation and de-activation of configurable airspace reservations.

Aeronautical/airspace data shall be used and exchanged in a coherent way between local and NM systems.

**NOTE FOR MILITARY AUTHORITIES:** It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLOAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the

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review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

### Applicability Area(s) & Timescale(s)

<b>Applicability Area 1</b> ( )	All EU SES States
<b>Applicability Area 2</b>	Albania, Bosnia and Herzegovina, Israel, Moldova, Montenegro, Morocco, Serbia, Ukraine, United Kingdom

<b>Timescales:</b>	<b>From:</b>	<b>By:</b>	<b>Applicable to:</b>
Initial Operational Capability	01/01/2014		Applicability Area 1 + Applicability Area 2
Full Operational Capability / Target Date		31/12/2022	Applicability Area 1 + Applicability Area 2

### References

#### European ATM Master Plan

OI step -	<a href="#">[AOM-0202]-Enhanced Real-time Civil-Military Coordination of Airspace Utilisation</a>								
	Enablers -	AAMS-06a	AAMS-08	AAMS-09	AAMS-10a AOM13.1	AAMS-15	AIMS-06	AIMS-21	AIMS-22
		PRO-184							
OI step -	<a href="#">[AOM-0202-A]-Automated Support for strategic, pre-tactical and tactical Civil-Military Coordination in Airspace Management (ASM).</a>								
	Enablers -	AAMS-06b	AAMS-09a	AAMS-11	AIMS-06	ER APP ATC 77	MIL-0502	NIMS-42	PRO-011
		PRO-024	SWIM-APS-02a	SWIM-APS-03a	SWIM-INFR-05a	SWIM-NET-01a			
OI step -	<a href="#">[AOM-0206-A]-Flexible and modular ARES in accordance with the VPA design principle</a>								
	Enablers -	AAMS-06b	AAMS-06c	AAMS-09a	AOC-ATM-15	ER APP ATC 77	SWIM-APS-03a	SWIM-APS-04a	SWIM-INFR-05a
		SWIM-NET-01a							

<b>Legend:</b>	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

- COMMISSION IMPLEMENTING REGULATION (EU) 2021/116 of 1 February 2021 on the establishment of the Common Project One supporting the implementation of the European Air Traffic Management Master Plan provided for in Regulation (EC) No 550/2004 of the European Parliament and of the Council, amending Commission Implementing Regulation (EU) No 409/2013 and repealing Commission Implementing Regulation (EU) No 716/2014

#### Essential Operational Changes

Fully Dynamic and Optimised Airspace

#### SESAR Solution

#31 - Variable profile military reserved areas and enhanced (further automated) civil-military collaboration, #66 - Automated Support for Dynamic Sectorisation

#### ICAO GANP - ASBUs

FRTO-B0/2	Airspace planning and Flexible Use of Airspace (FUA)
FRTO-B1/3	Advanced Flexible Use of Airspace (FUA) and management of real time airspace data
NOPS-B0/1	Initial integration of collaborative airspace management with air traffic flow management
NOPS-B1/5	Full integration of airspace management with air traffic flow management

#### Deployment Programme

3.1.1	ASM and A-FUA
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#### European Plan for Aviation Safety

- none -	
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## Operating Environments

En-Route  
Network  
Terminal Airspace

## Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	By
AOM19.5-ASP01	Deploy automated ASM support systems (LARA or equivalent)	01/01/2014	31/12/2022
AOM19.5-ASP02	Adopt the NM system (CIAM) for ASM capabilities	01/01/2014	31/12/2022
AOM19.5-ASP03	Implement procedures and processes for a full rolling ASM/ATFCM process	01/01/2014	31/12/2022
AOM19.5-ASP04	Adapt ASM systems (LARA or equivalent) to support a full rolling ASM/ATFCM process	01/01/2014	31/12/2022
AOM19.5-ASP05	Implement interoperability of ASM support systems with NM system	01/01/2014	31/12/2022
AOM19.5-ASP06	Implement interoperability between ASM support systems to facilitate cross border operations	01/01/2014	31/12/2022
AOM19.5-ASP07	Optimise planning and allocation of airspace booking	01/01/2014	31/12/2022
AOM19.5-ASP08	Implement procedures related to ASM level 3 (tactical) information exchange	01/01/2014	31/12/2022
AOM19.5-ASP09	Adapt ASM and ATC systems for automatic ASM data exchanges	01/01/2014	31/12/2022
AOM19.5-ASP10	Adapt ASM system to manage airspace data information aligned with centralised airspace data provided by NM system	01/01/2014	31/12/2022
AOM19.5-ASP11	Safety Assessment	01/01/2014	31/12/2022
AOM19.5-ASP12	Training	01/01/2014	31/12/2022
AOM19.5-ASP13	Operational use	01/01/2014	31/12/2022
AOM19.5-USE01	Adapt airspace users' systems for processing EAUP/EUUP information	01/01/2014	31/12/2022
AOM19.5-USE02	Adapt airspace users' system to process RRP messages or enhanced utilisation of opportunity tool application	01/01/2014	31/12/2022
AOM19.5-USE03	Training	01/01/2014	31/12/2022
AOM19.5-USE04	Operational use	01/01/2014	31/12/2022
AOM19.5-NM01	Adapt NM systems to support a full rolling ASM/ATFCM process	01/01/2014	31/12/2022
AOM19.5-NM02	Implement procedures and processes for a full rolling ASM/ATFCM process	01/01/2014	31/12/2022
AOM19.5-NM03	Improve ASM notification process	01/01/2014	31/12/2022
AOM19.5-NM04	Provide a centralised airspace data information to support ASM process	01/01/2014	31/12/2022
AOM19.5-NM05	Safety Assessment	01/01/2014	31/12/2022
AOM19.5-NM06	Training	01/01/2014	31/12/2022
AOM19.5-NM07	Operational use	01/01/2014	31/12/2022

Description of finalised and deleted SLoAs is available on the eATM Portal @ [https://www.eatmportal.eu/working/depl/essip\\_objectives](https://www.eatmportal.eu/working/depl/essip_objectives)

## Expected Performance Benefits

<b>Safety:</b>	Improved safety due to increased situational awareness of supervisors.
<b>Capacity:</b>	Increased capacity due to better use of available resources, both human and airspace.
<b>Operational Efficiency:</b>	Reduced saturation periods and flight delays. Improved operational efficiency.
<b>Cost Efficiency:</b>	-
<b>Environment:</b>	Reduced fuel burn and emissions.
<b>Security:</b>	-

## Detailed SLoA Descriptions

<b>AOM19.5-ASP01</b>	<b>Deploy automated ASM support systems (LARA or equivalent)</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2014	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Deploy automated Airspace Management (ASM) support systems (LARA or equivalent) to support the local or sub-regional airspace planning and allocation.		

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	<p>Note :This SLoA needs to be synchronised between civil and military ANSPs and NM.</p> <p><a href="#">AOM19.5-ASP01</a> and <a href="#">AOM19.5-ASP02</a> can be implemented in parallel.</p>		
<b>Supporting material(s):</b>	<p>SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021</p> <p>Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a></p>		
<b>ATM Master Plan relationship:</b>	<p><a href="#">[AAMS-06c]-Local ASM Tools to be updated to support Transmission of VPA-related data from local ASM tool to the NM</a></p> <p><a href="#">[AAMS-08]-Airspace management system enhanced to support improved collaborative airspace planning</a></p> <p><a href="#">[AAMS-09]-Airspace management system enhanced to support the integrated European airspace planning process</a></p> <p><a href="#">[AAMS-11]-ASM support systems enhanced to exchange real-time airspace status updates</a></p>		
<b>Finalisation criteria:</b>	1 - ASM systems supporting the airspace planning and allocation have been deployed		
<b>AOM19.5-ASP02</b>	<b>Adopt the NM system (CIAM) for ASM capabilities</b>	<p>From:</p> <p><b>Applicability Area 1:</b> 01/01/2014</p>	<p>By:</p> <p><b>Applicability Area 1:</b> 31/12/2022</p>
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	<p>As an alternative to deploying ASM support systems, States may decide to fully rely on NM applications and system capabilities such as CIAM and its further developments and migration to NES.</p>		
	<p>Note :This SLoA needs to be synchronised between civil and military ANSPs and NM.</p> <p><a href="#">AOM19.5-ASP01</a> and <a href="#">AOM19.5-ASP02</a> can be implemented in parallel.</p>		
<b>Supporting material(s):</b>	<p>SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021</p> <p>Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a></p>		
<b>ATM Master Plan relationship:</b>	<p><a href="#">[AAMS-06c]-Local ASM Tools to be updated to support Transmission of VPA-related data from local ASM tool to the NM</a></p> <p><a href="#">[AAMS-08]-Airspace management system enhanced to support improved collaborative airspace planning</a></p> <p><a href="#">[AAMS-09]-Airspace management system enhanced to support the integrated European airspace planning process</a></p>		
<b>Finalisation criteria:</b>	1 - ASM unit has started the exchange of AUP/UUP data with NM through the ASM NM system capabilities.		
<b>AOM19.5-ASP03</b>	<b>Implement procedures and processes for a full rolling ASM/ATFCM process</b>	<p>From:</p> <p><b>Applicability Area 1:</b> 01/01/2014</p>	<p>By:</p> <p><b>Applicability Area 1:</b> 31/12/2022</p>
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	<p>Implement procedures and processes for a full rolling ASM/ATFCM process and a CDM process.</p>		
	<p>Note :This SLoA needs to be synchronised between civil and military ANSPs, AUs and NM.</p>		
<b>Supporting material(s):</b>	<p>SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021</p> <p>Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a></p>		
<b>ATM Master Plan relationship:</b>	<p><a href="#">[PRO-011]-ASM Procedures to ensure that the change in airspace availability is promulgated through SWIM and reflected in the NOP</a></p> <p><a href="#">[PRO-024]-ASM Procedures related to real-time (tactical) ASM level III information exchange</a></p>		
<b>Finalisation criteria:</b>	1 - Processes/procedures have been defined, validated, and approved.		
<b>AOM19.5-ASP04</b>	<b>Adapt ASM systems (LARA or equivalent) to support a full rolling ASM/ATFCM process</b>	<p>From:</p> <p><b>Applicability Area 1:</b> 01/01/2014</p>	<p>By:</p> <p><b>Applicability Area 1:</b> 31/12/2022</p>
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	<p>Implement the following actions supporting a full rolling and dynamic ASM/ATFCM process:</p> <p>Upgrade ASM System (LARA or equivalent) to comply with the new AUP template content and format including additional information (NPZ and FUA group restrictions);</p> <p>Adapt ASM System changes for a full management of airspace structure via AUP/UUP accordingly;</p> <p>Adapt ASM System changes for CDM.</p>		
	<p>Note :This SLoA needs to be synchronised between civil and military ANSPs, AUs and NM.</p>		
<b>Supporting material(s):</b>	<p>SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021</p> <p>Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a></p>		
<b>ATM Master Plan relationship:</b>	<p><a href="#">[AAMS-06b]-ASM support systems enhanced to exchange static data and airspace usage data with NM systems in AIXM format</a></p> <p><a href="#">[AAMS-06c]-Local ASM Tools to be updated to support Transmission of VPA-related data from local ASM tool to the NM</a></p> <p><a href="#">[AAMS-08]-Airspace management system enhanced to support improved collaborative airspace planning</a></p> <p><a href="#">[AAMS-09]-Airspace management system enhanced to support the integrated European airspace planning process</a></p>		
<b>Finalisation criteria:</b>	1 - ASM systems have been adapted to allow data sharing to all operational stakeholders through rolling ASM/ATFCM process.		
<b>AOM19.5-ASP05</b>	<b>Implement interoperability of ASM support systems with NM system</b>	<p>From:</p>	<p>By:</p>

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		<b>Applicability Area 1:</b> 01/01/2014	<b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Implement interoperability of ASM support systems with NM system comprising the following: Adapt ASM support systems to make them interoperable with NM system; Conclude the Operational Access Acceptance Activities required to validate the ASM tool interfacing NM system.		
	<a href="#">Note :This SLoA needs to be synchronised between civil and military ANSPs and NM.</a>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - ASM support systems have been upgraded. A Positive Access Acceptance Criteria validation report is available. 2 - Exchange of AUP/UUP data with NM system has started.		
<b>AOM19.5-ASP06</b>	<b>Implement interoperability between ASM support systems to facilitate cross border operations</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2014	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Where applicable, implement interoperability of local ASM support system with adjacent ASM systems whenever cross border operations are in place.		
	<a href="#">Note :This SLoA needs to be synchronised between civil and military ANSPs and NM.</a>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[AAMS-08]-Airspace management system enhanced to support improved collaborative airspace planning</a> <a href="#">[AAMS-09]-Airspace management system enhanced to support the integrated European airspace planning process</a>		
<b>Finalisation criteria:</b>	1 - LoA for cross border operations are in force; 2 - Exchange of ASM data has started.		
<b>AOM19.5-ASP07</b>	<b>Optimise planning and allocation of airspace booking</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2014	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Improve planning and allocation of airspace structures at pre-tactical ASM level 2 by planning airspace structures utilisation in accordance with actual need.		
	<a href="#">Note :This SLoA needs to be synchronised between civil and military ANSPs and NM.</a>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[AAMS-08]-Airspace management system enhanced to support improved collaborative airspace planning</a> <a href="#">[AAMS-09]-Airspace management system enhanced to support the integrated European airspace planning process</a>		
<b>Finalisation criteria:</b>	1 - Planning and allocation of airspace structures have been optimized according to the procedures in place.		
<b>AOM19.5-ASP08</b>	<b>Implement procedures related to ASM level 3 (tactical) information exchange</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2014	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Develop and implement the ASM/ATFCM and ATC procedures for ASM data exchanges with all operational stakeholders in ASM level 3. Release airspace structures as soon as activity stops or when areas are not used. Use available airspace structures that have not been allocated in AUP.		
	<a href="#">Note :This SLoA needs to be synchronised between civil and military ANSPs, AUs and NM.</a>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[AAMS-08]-Airspace management system enhanced to support improved collaborative airspace planning</a> <a href="#">[AAMS-09]-Airspace management system enhanced to support the integrated European airspace planning process</a>		
<b>Finalisation criteria:</b>	1 - Procedures related to ASM level 3 (tactical) information exchange have been promulgated.		
<b>AOM19.5-ASP09</b>	<b>Adapt ASM and ATC systems for automatic ASM data exchanges</b>	<b>From:</b> <b>Applicability Area 1:</b> 01/01/2014	<b>By:</b> <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		

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<b>Description &amp; purpose:</b>	<ul style="list-style-type: none"> <li>• Adapt ASM systems (LARA or equivalent) to automatically provide status of airspace structures to ATC support systems.</li> <li>• Adapt ATC systems to receive airspace status data and to display airspace status data on CWPs.</li> <li>• If ASM data are provided through NM system capabilities (SLoA ASP02), ATC systems could be manually triggered to display the airspace status on CWP.</li> </ul>		
	<i>Note :This SLoA needs to be synchronised between civil and military ANSPs.</i>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[ER APP ATC 77]-ATC Systems enhanced to exchange real-time (tactical) airspace status data with ASM support system</a>		
<b>Finalisation criteria:</b>	1 - ASM and ATC systems have been adapted to enable the automatic exchange of airspace status data		
<b>AOM19.5-ASP10</b>	<b>Adapt ASM system to manage airspace data information aligned with centralised airspace data provided by NM system</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	ASM support system (LARA or equivalent) must be adapted to support airspace data improvements utilised for the AUP/UUP process.		
	<i>Note :This SLoA needs to be synchronised between civil and military ANSPs and NM.</i>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[PRO-011]-ASM Procedures to ensure that the change in airspace availability is promulgated through SWIM and reflected in the NOP</a> <a href="#">[PRO-024]-ASM Procedures related to real-time (tactical) ASM level III information exchange</a>		
<b>Finalisation criteria:</b>	1 - ASM support system is updated and manages improved airspace data processed via AUP/UUP.		
<b>AOM19.5-ASP11</b>	<b>Safety Assessment</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	The safety assessment of the changes must be developed and delivered to the competent authority.		
<b>Finalisation criteria:</b>	1 - Safety assessment has been developed and delivered to the competent authority.		
<b>AOM19.5-ASP12</b>	<b>Training</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	All relevant staff shall be duly trained.		
<b>Finalisation criteria:</b>	1 - Training has been completed		
<b>AOM19.5-ASP13</b>	<b>Operational use</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	AOM19.5 is in operational use once the systems have been implemented, the procedures are in place, the safety assessment has been delivered and approved, and the training has been completed.		
<b>Finalisation criteria:</b>	1 - AOM19.5 is put into service.		
<b>AOM19.5-USE01</b>	<b>Adapt airspace users' systems for processing EAUP/EUUP information</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	Adapt airspace users' systems (Computer Flight Plan Software Providers (CFSP) to process any EAUP/EUUP information provided.		
	<i>Note :This SLoA needs to be synchronised between AUs and NM.</i>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - AUs systems have been adapted for processing automatically EAUP/EUUP information.		

<b>AOM19.5</b>	<b>ASM and A-FUA</b>		
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<b>AOM19.5-USE02</b>	<b>Adapt airspace users' system to process RRP messages or enhanced utilisation of opportunity tool application</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	Adapt airspace users' systems (Computer Flight Plan Software Providers (CFSP) to enhance processing of FPL improvements notified by NM via RRP or Opportunity tool application.		
	<a href="#">Note :This SLoA needs to be synchronised between AUs and NM.</a>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - Systems have been adapted to increase the processing of opportunities notified by NM.		
<b>AOM19.5-USE03</b>	<b>Training</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	All relevant staff must be duly trained.		
<b>Finalisation criteria:</b>	1 - Training has been completed.		
<b>AOM19.5-USE04</b>	<b>Operational use</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>Airspace Users</b>		
<b>Description &amp; purpose:</b>	AOM19.5 is in operational use once the systems have been implemented, the procedures are in place, and the training has been completed.		
<b>Finalisation criteria:</b>	1 - AOM19.5 is put into service.		
<b>AOM19.5-NM01</b>	<b>Adapt NM systems to support a full rolling ASM/ATFCM process</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	The following system upgrades supporting a full rolling ASM/ATFM process to be performed by the Network Manager: <ul style="list-style-type: none"> <li>• System upgrade supporting a full rolling ASM/ATFCM and dynamic ASM/ATFCM process;</li> <li>• System changes supporting rolling AUP;</li> <li>• Full implementation of new AUP template;</li> <li>• System changes for CDM;</li> <li>• System changes for initial NIA</li> </ul>		
<b>ATM Master Plan relationship:</b>	<a href="#">[AAMS-09a]-NM systems enhanced to exchange static data and airspace usage data with ASM support systems in AIXM format</a> <a href="#">[NIMS-42]-NM systems enhanced to receive, process and display real-time tactical (ASM level III) airspace usage information</a>		
<b>Finalisation criteria:</b>	1 - NM systems have been adapted.		
<b>AOM19.5-NM02</b>	<b>Implement procedures and processes for a full rolling ASM/ATFCM process</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	The following processes have to be developed and implemented by the Network Manager in coordination with the concerned stakeholders: <ul style="list-style-type: none"> <li>• Process supporting a full rolling ASM/ATFCM and dynamic ASM/ATFCM process;</li> <li>• Process for a full management of airspace structure and related features via AUP/UUP;</li> <li>• Process for CDM;</li> <li>• Process for initial NIA</li> </ul>		
	<a href="#">Note :This SLoA needs to be synchronised between ANSPs, AUs and NM.</a>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[PRO-011]-ASM Procedures to ensure that the change in airspace availability is promulgated through SWIM and reflected in the NOP</a> <a href="#">[PRO-024]-ASM Procedures related to real-time (tactical) ASM level III information exchange</a> <a href="#">[PRO-184]-ASM Procedures related to Dynamic co-operative management of the airspace</a>		
<b>Finalisation criteria:</b>	1 - Processes have been implemented by NM in coordination with concerned stakeholders.		

<b>AOM19.5</b>	<b>ASM and A-FUA</b>
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<b>AOM19.5-NM03</b>	<b>Improve ASM notification process</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	The following actions supporting an improved ASM notification process shall be taken by the Network Manager: <ul style="list-style-type: none"> <li>• Improvements to the European AUP/UUP enhanced information</li> <li>• Enhanced process to provide automatic information of airspace opportunity (RRP, opportunity tool).</li> </ul>		
	<b>Note :This SLoA needs to be synchronised between ANSPs, AUs and NM.</b>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - Processes have been promulgated by NM.		
<b>AOM19.5-NM04</b>	<b>Provide a centralised airspace data information to support ASM process</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	Improve centralised airspace data information availability according to the ASM process improvements, namely additional set of data exchanged via AUP/UUP.		
	<b>Note :This SLoA needs to be synchronised between ANSPs, AUs and NM.</b>		
<b>Supporting material(s):</b>	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 Url : <a href="https://www.sesardeploymentmanager.eu/publications/deployment-programme">https://www.sesardeploymentmanager.eu/publications/deployment-programme</a>		
<b>Finalisation criteria:</b>	1 - NM system updated to support the exchange of additional airspace information data.		
<b>AOM19.5-NM05</b>	<b>Safety Assessment</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	A safety assessment of the changes shall be developed and delivered to the competent authority.		
<b>Finalisation criteria:</b>	1 - Safety assessment has been developed and delivered to the competent authority.		
<b>AOM19.5-NM06</b>	<b>Training</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>			
<b>Description &amp; purpose:</b>	All relevant staff shall be duly trained.		
<b>Finalisation criteria:</b>	1 - Training has been completed.		
<b>AOM19.5-NM07</b>	<b>Operational use</b>	From: <b>Applicability Area 1:</b> 01/01/2014	By: <b>Applicability Area 1:</b> 31/12/2022
<b>Action by:</b>	<b>NM</b>		
<b>Description &amp; purpose:</b>	AOM19.5 is in operational use once the systems have been implemented, the procedures are in place, the safety assessment has been delivered and approved, and the training has been completed.		
<b>Finalisation criteria:</b>	1 - AOM19.5 put into service.		



