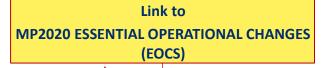


Strategic Deployment Objectives (SDOs) Supporting Material – December 2024



How to read





STRATEGIC DEPLOYMENT OBJECTIVE ID AND LOGO

DEPLOYMENT ACTION (S)

SDO ATP
Airport and TMA performance

STAKEHOLDERS who have to invest in DEPLOYMENT ACTION(s)

SDO 1 – Alerts for reduction of collision risks on taxiways and runways

| Start | Sta

OPERATING ENVIRONMENTS where DEPLOYMENT ACTIONS should be implemented

SESAR SOLUTION INFORMATION

Maturity information

SESAR Solution TRL6 COMPLETED (accessible in SESAR catalogue)

SESAR Solution IN THE PIPELINE FOR DELIVERY (final references will be updated when delivered at TRL6 and made available in the SESAR catalogue)

Link to NM CONOPS

SESAR Solution CONTRIBUTES TO NM CONOPS

EASA Regulatory overview

- The SESAR Solution can be implemented within current Regulatory Framework
- (S) THE SESAR Solution REQUIRES SOFT LAW UPDATE
- H) THE SESAR Solution REQUIRES HARD LAW UPDATE
- To be confirmed (SESAR Solution IN THE PIPELINE FOR DELIVERY)

Start of investment in RP4 timeframe?

√ Implementation action can START in RP4

STRATEGIC DEPLOYMENT OBJECTIVES

Sesar JOINT UNDERTAKING

(see chapter 5 of European master plan)



ALERTS FOR REDUCTION OF COLLISION RISKS ON TAXIWAYS & RUNWAYS



TRANSFORMATION TO TRAJECTORY-BASED OPERATIONS (TBO)



CNS OPTIMISATION, MODERNISATION AND RESILIENCE



OPTIMISING AIRPORT AND TMA ENVIRONMENTAL FOOTPRINT



VIRTUALISATION OF OPERATIONS



ENABLE INNOVATIVE AIR MOBILITY (IAM) & DRONE OPERATIONS



DYNAMIC AIRSPACE CONFIGURATION



TRANSITION TOWARDS
HIGH PERFORMANCE OF AIR-GROUND
CONNECTIVITY (MULTILINK)



INCREASED AUTOMATION SUPPORT



SERVICE-ORIENTED DELIVERY MODEL (DATA-DRIVEN AND CLOUD-BASED)

European ATM Master Plan





SDO 1 – Alerts for reduction of collision risk	s on taxiways	s and ı	runways														
			¥	_ 0				STA	KEHOLD	ERS				OPER/	TING EN	IVIRONM	ENT
# Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within curren regulatory framework	Start of Investment in RP4 timeframe	ANSP	ΑU	АО	N N	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	ТМА	EN-ROUTE	NETWORK
1.1 Adapt airport ground safety nets to extend conflicting ATC clearances (CATC) to the entire aerodrome movement area, to enlarge the set of Conformance monitoring (CMAC) alerting functions and to provide integrated occupancy/ conflict status of a runway.	• PJ.02-W2-21.1		H		•												

KEY

SOLUTION TRL6 COMPLETED

O SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029

HARD LAW UPDATE

TO BE CONFIRMED

⊘ YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4

[⊘] YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

SOFT LAW UPDATE

^{*} DISCLAIMER: THE DEPLOYMENT ACTION ID DOES NOT PROVIDE ANY SENSE OF DEPLOYMENT ORDER OR PRIORITY.



ATPAirport and TMA performance

iN

ATM interconnected network



SDO 2 – Optimising airport and TMA environmental footprint STAKEHOLDERS OPERATING ENVIRONMENT Start of Investment in RP4 timeframe NM CONOPS 2029 Drone/UAS Operator NETWORK AIRPORT Action # **SESAR** USSP Solution(s)/ M **Deployment Actions*** Elements PJ.04-W2-28.1 2.1 Implement collaborative management of regional airports and their integration with Network Manager (NM) by PJ.04-W2-28.2 sharing departure planning information (also shared ΑU PJ.09-03-02 between NM and airspace users). 2.2 Implement solutions for better integrate large / very large FastNET airports and the network via enhanced AOPs-NOP tactical, (твс) 0346 pre-tactical and strategic planning and AOP to AOP collaborative planning process. **FastNET** 0347 2.3 Implement environmental performance management at airports and solutions to reduce the airport impact on PJ.04-W2-29.3 emissions (single engine taxiing, engine-off taxiing through use of sustainable taxiing vehicles). PJ.25-01 Implement capabilities to better manage arrival constraints between various extended arrival management (E-AMAN) units in cross-border environments and to better integrate PJ.25-02 the out-of-area inbound flights.

KEY SOLUTION TRUC

SOLUTION TRL6 COMPLETED

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029

⊘ YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

SOFT LAW UPDATE

HARD LAW UPDATE

TO BE CONFIRMED

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ATP Airport and TMA performance

iN

ATM interconnected network



SDO 2 – Optimising airport and TMA environmental footprint **STAKEHOLDERS OPERATING ENVIRONMENT** Start of Investment in RP4 timeframe NM CONOPS 2029 Drone/UAS Operator NETWORK AIRPORT Action # **SESAR** Solution(s)/ M **Deployment Actions*** Elements PJ.02-W2-14.2 2.5 Implement optimised descent operations using merge to point and advanced approach procedures (i.e. PJ.02-W2-14.3 second runway-aiming point (SRAP), increased second glide slope (ISGS), increased glide slope to a second PJ.02-W2-14.5 runway aiming point (IGS-to-SRAP)), which aim to reduce the aviation environmental impact (e.g., noise, #11 fuel consumption, CO2 emissions, etc.) on the airport neighbouring communities. PJ.02-01-01 2.6 Implement new capabilities to increase airport runway capacity both on arrivals and departures based on wake PJ.02-01-02 turbulence separations based on static aircraft characteristics, required surveillance performance (RSP) PJ.02-01-04 and runway occupancy time (ROT) characterisation of the leader aircraft. PJ.02-01-06 PJ.02-03 PJ.02-08-03 PJ.02-W2-14.6a KEY YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK **CONOPS 2029**

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SOLUTION TRL6 COMPLETED

SOFT LAW UPDATE

⁽H) HARD LAW UPDATE

TO BE CONFIRMED

YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4





SD	O 3 – Dynamic airspace configuration																	
				Ħ	_ e				STA	KEHOLD	ERS				OPERA	TING EN	IVIRONM	IENT
Action #	Deployment Actions	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within currer regulatory framework	Start of Investment in RP4 timeframe	ANSP	PΛ	AO	ΣN	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	ТМА	EN-ROUTE	NETWORK
3.1	Implement higher levels of granularity and dynamicity in airspace configurations, adjusted to traffic demand and military needs for airspace reservations, enabling cross-border coordination between all civil and military actors.	● PJ.09-W2-44		H						ANSP AU								
3.2	Implement mission trajectory and dynamic mobile areas (DMAs) of type 1 and type 2 using the improved operational air traffic flight plan (iOAT FPL) into dynamic airspace configuration processes in medium to short-term ATM planning phase supporting military airspace requirements.	PJ.07-03PJ.07-W2-40		H H		•				ANSP AU								

KEY

SOLUTION TRL6 COMPLETED

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029

HARD LAW UPDATE

TO BE CONFIRMED

✓ YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4

[⊘] YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

S SOFT LAW UPDATE

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dA

Fully dynamic and optimised airspace

vS

Virtualisation of service provision



SE	00 4 – Increased automation support																	
			6	ant	ne me				STA	KEHOLD	ERS				OPERA	TING EN	IVIRONM	IENT
Action #	Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within curre regulatory framework	Start of Investment in RP4 timeframe	ANSP	ΑU	AO	ΣN	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	ТМА	EN-ROUTE	NETWORK
4.1	Implement sector team configurations, which in specific airspace configurations include the combination of one planning ATCO to two tactical/executive ATCOs in EnRoute / eTMA environment.	PJ.10-01a1		⊘	⊘													
4.2	Implement automatic speech recognition (ASR), user profile management system (UPMS) and attention guidance (AG) to provide higher automation environment to support the ATCO role.	 PJ.10-W2-96 AG PJ.10-W2-96 UPMS PJ.10-W2-96 ASR 		(T)		•												

KEY

SOLUTION TRL6 COMPLETED

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029

S SOFT LAW UPDATE

HARD LAW UPDATE

TO BE CONFIRMED

✓ YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4

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iN ATM interconnected network

TBO

Trajectory-based operations



SDO 5 – Transformation to trajectory-based operations (TBO)

				٠,	O O				STA	KEHOLD	ERS				OPERA	TING EN	IVIRONM	ENT
Action #	Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within current regulatory framework	Start of Investment in RP4 timeframe	ANSP	AU	AO	ΣN	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	ТМА	EN-ROUTE	NETWORK
5.1	Implement enhanced conflict detection and resolution (CD&R) support tools by using aircraft-derived data (i.e. extended projected profile (EPP)) supported by the full implementation of ATS-B2 and high-resolution wind models.	PJ.18-W2-53B		\bigcirc	⊘													
5.2	Implement multi-element clearances using controller pilot data link communications (CPDLC) with lateral and vertical data link clearances and increased ground automation tools (e.g. CD&R tools) and trajectory prediction supporting the earlier detection and resolution of potential conflicts.	ATC-TBO 0468 ATC-TBO 0469		TBC TBC		•				ANSP AU								
5.3	Implement a dynamic route availability document (RAD) to allow the dynamic management of restrictions based on traffic evolutions, better integration of letters of agreement (LoAs) between ATC centres and NM and the provision of preliminary flight plans by Airspace Users. This will feed dynamic network constraints publications initiated the day before operations, to optimise the environmental performance of the network.	#201		S	⊘	•	•											
5.4	Implement airspace user capabilities to provide, through the user-driven prioritisation process (UDPP), their preferences and priorities and influence ATFM arrival regulations.	PJ.07-W2-39 PJ.07-02		TBC	⊘													

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KEY

SOLUTION TRL6 COMPLETED

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK
CONOPS 2029

[⊘] YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

S SOFT LAW UPDATE

⁽H) HARD LAW UPDATE

TO BE CONFIRMED

[✓] YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4



iN ATM interconnected network

TBO

Trajectory-based operations



SD	O 5 – Transformation to trajectory-base	d operations (тво)															
				Ħ	_ 9				STA	KEHOLD	ERS				OPER/	ATING EN	IVIRONN	IENT
Action #	Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within currer regulatory framework	Start of Investment in RP4 timeframe	ANSP	ΑU	АО	ΣN	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	TMA	EN-ROUTE	NETWORK
5.5	Implement interaction tools supporting the full integration of the flight operations centre (FOC) into the ATM network process, and the flight delay criticality concept, to better integrate airspace user priorities in flow management decisions.	PJ.07-W2-38		\bigcirc	⊘													
5.6	Exploit new FF-ICE/R1 trajectory services beyond the CP1 services (which are just the filing and trial services) to improve the completeness and accuracy of traffic load calculation and advanced network performance capabilities.	ISLAND 0331 NETWORK- TBO 0440		ТВС		•	•			ANSP AU								
5.7	Implement seamless ATC-ATC coordination and sharing with NM of the ATC-ATC exchanges, encompassing more complex coordination dialogues implying negotiation between controllers across ACC boundaries.**	PJ.18-02b NETWORK- TBO 0442		S	⊘	•				ANSP								

- SOLUTION TRL6 COMPLETED
- SOLUTION IN THE PIPELINE FOR DELIVERY
- CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029
- **⊘** YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK
- SOFT LAW UPDATE
- (H) HARD LAW UPDATE
- TO BE CONFIRMED
- **⊘** YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4

^{*} DISCLAIMER: THE DEPLOYMENT ACTION ID DOES NOT PROVIDE ANY SENSE OF DEPLOYMENT ORDER OR PRIORITY.

^{**} NOTE THE SESAR DEPLOYMENT MANAGER'S ACTION TO BUILD CONSENSUS ON ATCATC INTEROPERABILIRY IS ON-GOING.

KEY





Fully dynamic and optimised airspace

vS

Virtualisation of service provision



				별	_ 9				STA	KEHOLD	ERS				OPER/	ATING EN	IVIRONM	IENT
Action #	Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within curren regulatory framework	Start of Investment in RP4 timeframe	ANSP	AU	AO	ΣN	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	ТМА	EN-ROUTE	NETWORK
5.1	Implement virtual centres to enable decoupling of the ATM data service provider (ADSP) and ATSU through service interfaces that support new ways of dynamic ATS delegation (e.g. contingency delegation, night delegation (scheduled), fixed time delegation (scheduled), or "on-demand").	PJ.10-W2-93ISLAND 0332IFAV3 0377		TBC	⊘	•				ANSP								
5.2	Implement multiple remote tower module (MRTM) flexible and dynamic allocation of different MRTMs accommodated within a remote tower centre (RTC) that allows the ATCO to maintain situational awareness for two or more small airports. It includes the implementation of low-cost surveillance service for supporting remote tower operations.	PJ.05-02PJ.05-W2-35PJ.14-W2-84b		S	⊘	•		•		ANSP AO								

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK **CONOPS 2029**

TO BE CONFIRMED



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SOLUTION TRL6 COMPLETED

[✓] YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

S SOFT LAW UPDATE

HARD LAW UPDATE





SD	O 7 – Transition towards high performar	nce of air-grou	nd co	nnectivi	ty (mul	tilink)												
				Ħ	_ e				STA	KEHOLD	ERS				OPER <i>A</i>	TING EN	IVIRONIV	IENT
Action #	Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within currer regulatory framework	Start of Investment in RP4 timeframe	ANSP	ΑU	АО	ΣZ	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	TMA	EN-ROUTE	NETWORK
7.1	Implement future air-ground communications network infrastructure, which supports multilink capability and complete mobility between different data links.	● PJ.14-W2-77		S	⊘	•				ANSP AU								
7.2	Implement SatCom class B , which enables data and voice communication services using existing satellite technology systems in oceanic, remote, polar, and progressively continental airspace.	• #109		S	⊘	•	•			ANSP								
7.3	Implement VDL-M2 successor (e.g. terrestrial data link system L-band-digital aeronautical communication system (LDACS), data link for ATM and AOC operations over commercial communication systems (hyper-connected ATM), and satellite communications for both continental and remote/oceanic regions.	PJ.14-W2-107 FCDI 0339 FCDI 0341		TBC TBC		•				AU								

SDO is linked to the activities of the CNS Programme Manager who will deliver a CNS Evolution Plan detailing how the SDO will be implemented



SOLUTION TRL6 COMPLETED

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029

S SOFT LAW UPDATE

HARD LAW UPDATE

TO BE CONFIRMED

[⊘] YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

[✓] YES, IF THE IMPLEMENTATION ACTION-STARTS IN RP4



iN ATM interconnected network

dS

Digital AIM and MET services

Virtualisation of service provision



SDO 8 – Service-oriented delivery model (Data-driven and cloud-based) **STAKEHOLDERS OPERATING ENVIRONMENT** Start of Investment in RP4 timeframe NM CONOPS 2029 Drone/UAS Operator AIRPORT Action # **SESAR** Solution(s)/ M **Deployment Actions* Elements** ● PJ.14-W2-101 Implement the new service-oriented delivery model (data-driven and cloud-based) covering all phases of ● PJ.18-04a flight and enabling: **ANSP** ●PJ.16-03 open ATM patterns enabling integration of components provided by various system providers ●PJ.10-W2-93A to facilitate multi-vendor solutions using open platforms and interfaces. **ISNAP 0418** decoupling of service and infrastructure layers **VITACY 0386** through cloud computing (including the various system components). VITACY 0387 • a cloud-native architecture of components with **VITACY 0388** standardised and open interfaces that can be deployed on commodity cloud technologies.

- **SOLUTION TRL6 COMPLETED**
- SOLUTION IN THE PIPELINE FOR DELIVERY
- **CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029**
- ✓ YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4

S SOFT LAW UPDATE

(H) HARD LAW UPDATE

TO BE CONFIRMED

YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK

^{*} DISCLAIMER: THE DEPLOYMENT ACTION ID DOES NOT PROVIDE ANY SENSE OF DEPLOYMENT ORDER OR PRIORITY.





SD	O 9 – CNS optimisation, modernisation a	nd resilience																
				Ħ	_ e				STA	KEHOLD	ERS				OPERA	TING EN	NVIRONIV	IENT
Action #	Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within currer regulatory framework	Start of Investment in RP4 timeframe	ANSP	ΑU	АО	ΣN	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	ТМА	EN-ROUTE	NETWORK
9.1	Implement a secured surveillance functionality that enables detection and, when possible, mitigation of security threats that could affect the surveillance chain.	PJ.14-W2-84c		H						ANSP								
9.2	Implement minimum operational network (MON).	N/A		⊘	⊘					ANSP								
9.3	Rationalise instrument landing systems (ILS) and implement efficiency measures/methods for more cost-effective maintenance of ILS, providing link between ICAO Doc. 8071 and national CNS provision.	N/A			⊘					ANSP								
9.4	Optimise surveillance, leveraging terrestrial and space-based information.	N/A			⊘													

SDO is linked to the activities of the CNS Programme Manager who will deliver a CNS Evolution Plan detailing how the SDO will be implemented

KEY

SOLUTION TRL6 COMPLETED

SOLUTION IN THE PIPELINE FOR DELIVERY

CONTRIBUTES TO HIGH-LEVEL NETWORK CONOPS 2029

- **⊘** YES, IF WITHIN THE CURRENT REGULATORY FRAMEWORK
- SOFT LAW UPDATE
- HARD LAW UPDATE
- **TO BE CONFIRMED**
- ✓ YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4

^{*} DISCLAIMER: THE DEPLOYMENT ACTION ID DOES NOT PROVIDE ANY SENSE OF DEPLOYMENT ORDER OR PRIORITY.



CNS CNS infrastructure and services

U-s

U-space services

M3

Multimodal mobility and integration of all airspace users



				ent	_ e				STA	KEHOLD	ERS				OPER/	ATING EN	IVIRONM	IENT
Action #	Deployment Actions*	SESAR Solution(s)/ Elements	NM CONOPS 2029	Within currer regulatory framework	Start of Investment in RP4 timeframe	ANSP	AU	AO	ΣN	MIL	USSP	CISP	VERTIPORT Operator	Drone/UAS Operator	AIRPORT	ТМА	EN-ROUTE	METWOOK
10.1	Implement system support and procedures to integrate instrument flight rules (IFR) RPAS and IAM in airspaces A to C, which are required to have detect and avoid (DAA) systems that perform at least as well as TCAS II (traffic alert and collision avoidance system) and see and avoid.	PJ.13-W2-115IRINA 0379		H		•	•			ANSP AU Drone/UAS Operator								
10.2	Implement foundational (U1) and initial (U2) U-space services as established by the regulatory framework for U-Space (Commission Implementing Regulation (EU) 2021/664).	U1 ServicesU2 Services		⊘	⊘					OP C. G.CO.					VERY	LOW-LEVE	L AIRSPACE	(VLL)
10.3	Implement a common ATM-U-space interface and dynamic airspace reconfiguration service to help ATC actors in charge of airspace reconfigurations to increase safety, keeping crewed and uncrewed aircraft segregated within the designated U-space airspace.	ENSURE 0394ENSURE 0395		TBC		•	•			ANSP AU AO					**			
10.4	Implement simultaneous non-interfering (SNI) operations (e.g. parallel, or convergent point-in-space (PinS) procedures) and capabilities (i.e. GNSS and the RNP navigation specification) allowing airspace users (e.g. rotorcraft, VTOL-capable aircraft, etc.) to operate to and from airports, vertiports and TMAs without conflicting other traffic or requiring runway slots.	PJ.01-06PJ.02-05		H H		•		•							**			

CONOPS 2029

DEPLOYMENT ORDER OR PRIORITY.

^{**} AIRPORT OPERATING ENVIRONMENT INCLUDES WHEN APPLICABLE VERTIPORT

⁽H) HARD LAW UPDATE

TO BE CONFIRMED

YES, IF THE IMPLEMENTATION ACTION STARTS IN RP4