SESAR	Active		LOC/APT
AOP17	**Provision/integration of departure planning information to NMOC**		

REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

The Network integration of departure estimates from medium and small sized airports via the exchange of Departure Planning Information (DPI), specifically ATC-DPI and CNL-DPI messages is needed to enhance the network benefit and improve the flow management process. This functionality aims to improve integration of departure estimates from medium or small-size airports when serving a complex airspace with dense traffic through improved availability of aircraft pre-departure information to the ATM Network, through the provision of accurate pre-departure information to the NM.

The objective also supports further integration of airports into the Network by addressing the reception from the NM of estimated landing times.

This objective should be considered as not applicable for the airports that already deployed A-CDM or planned to deploy A-CDM in near future.

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

Applicability Area(s) & Timescale(s)

Applicability Area (Subject to local needs)	

Timescales:	From:	By:	Applicable to:
IOC used for Analytics functioning only - not for implementation planning	31/05/2019		Applicability Area
FOC used for Analytics functioning only - not for implementation planning		01/01/2030	Applicability Area

References

European ATM Master Plan

OI step -	[DCB-0304]-Improved Integration of Regional Airports into the Network						
	Enablers -	AERODROME-ATC-20	NIMS-03				

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

Applicable legislation

-none-

Essential Operational Changes

ATM Interconnected Network

SESAR Solution

#61 - CWP Airport - Low Cost and Simple Departure Data Entry Panel

ICAO GANP - ASBUs

NOPS-B0/4	Initial Airport/ATFM slots and A-CDM Network Interface

Deployment Programme

- none -	

European Plan for Aviation Safety

- none -	

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Operating Environments

Airport
Network

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	By
AOP17-ASP01	Upgrade the local ATC system so as to provide departure planning information		
AOP17-ASP02	Upgrade the local system to support reception of estimated landing time from NM		
AOP17-ASP03	Develop the procedures for information exchanges with the NM		
AOP17-ASP04	Train all relevant staff in the information exchanges with NM		
AOP17-ASP05	Develop local safety case		
AOP17-ASP06	Provide DPI message to NM		
AOP17-NM01	Integrate Departure Planning Information (DPI) in NM systems		

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Safety:	There will be an overall minor improvement in the safety of operations through the provision of timely and accurate information that is widely shared amongst all partners in the ATM business.
Capacity:	Improved availability of more accurate departure data will improve the performance of network management, thereby enabling the improvement of capacity through better confidence in NMOC traffic load predictions.
Operational Efficiency:	The improved data will increase predictability within the NMOC systems for demand on a sector, leading to: • Better decision making concerning when to open or close a sector; • Fewer unnecessary regulations leading to a reduction of ATFM delays; • Fewer overloads as sudden increases in demand will be rare.
Cost Efficiency:	No
Environment:	No
Security:	No

Detailed SLoA Descriptions

AOP17-ASP01	Upgrade the local ATC system so as to provide departure planning information	From: -	By: -
Action by:	**ANS Providers**		
Description & purpose:	TWR tools and systems (e.g. Advanced Tower tools, Electronic flight strip) are upgraded as necessary so with the capability of providing departure planning information (ATC-DPI and CNL-DPI messages) to NM.		
Supporting material(s):	EUROCONTROL - DPI Implementation Guide - 2.400 / 03/2019 Url : https://www.eurocontrol.int/publication/departure-planning-information-dpi-implementation-guide EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - EUROCONTROL Implementation Guidelines Advanced ATC TWR airports - 1.700 / 06/2021 Url : https://www.eurocontrol.int/publication/advanced-atc-twr-implementation-guide SJU - SESAR Solution 61: Data Pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel Url : https://www.sesarju.eu/sesar-solutions/cwp-airport-low-cost-and-simple-departure-data-entry-panel		
ATM Master Plan relationship:	[AERODROME-ATC-20]-Enhanced ADDEP (Airport Departure Data Entry Panel)		
Finalisation criteria:	1 - Installation completed, TWR system capable of generating DPI.		
AOP17-ASP02	Upgrade the local system to support reception of estimated landing time from NM	From: -	By: -
Action by:	**ANS Providers**		
Description & purpose:	The upgrade of TWR systems should allow the reception/ presentation of estimated landing time (ELDT) from NM. ELDT may be received via AFTN using the FUM messages or via dedicated NM B2B web services.		

AOP17	Provision/integration of departure planning information to NMOC

Supporting material(s):	EUROCONTROL - DPI Implementation Guide - 2.400 / 03/2019 Url : https://www.eurocontrol.int/publication/departure-planning-information-dpi-implementation-guide EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - EUROCONTROL Implementation Guidelines Advanced ATC TWR airports - 1.700 / 06/2021 Url : https://www.eurocontrol.int/publication/advanced-atc-twr-implementation-guide SJU - SESAR Solution 61: Data Pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel Url : https://www.sesarju.eu/sesar-solutions/cwp-airport-low-cost-and-simple-departure-data-entry-panel
ATM Master Plan relationship:	[AERODROME-ATC-20]-Enhanced ADDEP (Airport Departure Data Entry Panel)
Finalisation criteria:	1 - Installation completed, TWR system receives estimated landing time from NM.

AOP17-ASP03	Develop the procedures for information exchanges with the NM	From: -	By: -

Action by:	**ANS Providers**
Description & purpose:	The procedures specifying responsibilities and actions that should be taken by TWR in relation to information exchanges with NM (departure planning information and/or estimated landing time) should be developed.
Supporting material(s):	EUROCONTROL - DPI Implementation Guide - 2.400 / 03/2019 Url : https://www.eurocontrol.int/publication/departure-planning-information-dpi-implementation-guide EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - EUROCONTROL Implementation Guidelines Advanced ATC TWR airports - 1.700 / 06/2021 Url : https://www.eurocontrol.int/publication/advanced-atc-twr-implementation-guide SJU - SESAR Solution 61: Data Pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel Url : https://www.sesarju.eu/sesar-solutions/cwp-airport-low-cost-and-simple-departure-data-entry-panel
ATM Master Plan relationship:	[AERODROME-ATC-20]-Enhanced ADDEP (Airport Departure Data Entry Panel)
Finalisation criteria:	1 - The procedures specifying responsibilities and actions that should be taken by TWR in relation information exchanges with NM have been published in the Operations Manual.

AOP17-ASP04	Train all relevant staff in the information exchanges with NM	From: -	By: -

Action by:	**ANS Providers**
Description & purpose:	Train TWR controllers in the responsibilities and actions that should be taken in relation to information exchanges with NM.
Supporting material(s):	EUROCONTROL - DPI Implementation Guide - 2.400 / 03/2019 Url : https://www.eurocontrol.int/publication/departure-planning-information-dpi-implementation-guide EUROCONTROL - EUROCONTROL Implementation Guidelines Advanced ATC TWR airports - 1.700 / 06/2021 Url : https://www.eurocontrol.int/publication/advanced-atc-twr-implementation-guide SJU - SESAR Solution 61: Data Pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel Url : https://www.sesarju.eu/sesar-solutions/cwp-airport-low-cost-and-simple-departure-data-entry-panel
ATM Master Plan relationship:	[AERODROME-ATC-20]-Enhanced ADDEP (Airport Departure Data Entry Panel)
Finalisation criteria:	1 - The training in accordance with agreed training requirements and programme has been completed

AOP17-ASP05	Develop local safety case	From: -	By: -

Action by:	**ANS Providers**
Description & purpose:	Develop safety case for the information exchanges with NM according to applicable legislation.
Supporting material(s):	EUROCONTROL - DPI Implementation Guide - 2.400 / 03/2019 Url : https://www.eurocontrol.int/publication/departure-planning-information-dpi-implementation-guide EUROCONTROL - EUROCONTROL Implementation Guidelines Advanced ATC TWR airports - 1.700 / 06/2021 Url : https://www.eurocontrol.int/publication/advanced-atc-twr-implementation-guide SJU - SESAR Solution 61: Data Pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel Url : https://www.sesarju.eu/sesar-solutions/cwp-airport-low-cost-and-simple-departure-data-entry-panel
Finalisation criteria:	1 - Safety case developed and submitted to NSA.

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AOP17-ASP06	Provide DPI message to NM	From:	By:
		-	-

Action by:	**ANS Providers**
Description & purpose:	Exchange ATC-DPI and CNL-DPI with NM
Supporting material(s):	EUROCONTROL - DPI Implementation Guide - 2.400 / 03/2019 Url : https://www.eurocontrol.int/publication/departure-planning-information-dpi-implementation-guide EUROCONTROL - EUROCONTROL Implementation Guidelines Advanced ATC TWR airports - 1.700 / 06/2021 Url : https://www.eurocontrol.int/publication/advanced-atc-twr-implementation-guide SJU - SESAR Solution 61: Data Pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel Url : https://www.sesarju.eu/sesar-solutions/cwp-airport-low-cost-and-simple-departure-data-entry-panel
ATM Master Plan relationship:	[NIMS-03]-Reception of DPI messages
Finalisation criteria:	1 - ATC-DPI and CNL-DPI from concerned airport are integrated with NM systems

AOP17-NM01	Integrate Departure Planning Information (DPI) in NM systems	From:	By:
		-	-

Action by:	**NM**
Description & purpose:	Integrate the received DPI messages with NM systems.
Supporting material(s):	EUROCONTROL - DPI Implementation Guide - 2.400 / 03/2019 Url : https://www.eurocontrol.int/publication/departure-planning-information-dpi-implementation-guide EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - EUROCONTROL Implementation Guidelines Advanced ATC TWR airports - 1.700 / 06/2021 Url : https://www.eurocontrol.int/publication/advanced-atc-twr-implementation-guide SJU - SESAR Solution 61: Data Pack for Controller Working Position (CWP) Airport – Low Cost and Simple Departure Data Entry Panel Url : https://www.sesarju.eu/sesar-solutions/cwp-airport-low-cost-and-simple-departure-data-entry-panel
ATM Master Plan relationship:	[NIMS-03]-Reception of DPI messages [NIMS-06]-Network information management system equipped with post-analysis tools for airport traffic
Finalisation criteria:	1 - DPI messages from concerned airport integrated with the NM systems