SESAR						Active				LO	C/APT
	AOP	AOP14.1 Remote Tower Services									
Ŀ	REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

The remote tower concept enables air traffic control services (ATS) and aerodrome flight information services (AFIS) to be provided at aerodromes where such services are either currently unavailable, or where it is difficult or too expensive to implement and staff a conventional manned facility.

This Objective proposes to remotely provide ATC services and AFIS for one aerodrome handling low to medium traffic volumes or two low-density aerodromes (simultaneous by one operator), typically with traffic schedules comprising single movements, rarely exceeding two simultaneous movements per aerodrome. The basic configuration, which does not include augmentation features, is considered suitable for ATC and AFIS provision at low density airfields. However, the level and flexibility of service provision can be enhanced through the use of augmentation technology, such as an ATC surveillance display, surveillance and visual tracking, infrared cameras etc.

This Objective also covers the possibility to apply the remote tower concept as a contingency solution in facility known as Remote Contingency Tower (RCT). This solution can be used when the local tower is not available and services need to be provided from a back-up location. The target environment for the majority of RCTs will be medium density aerodromes that are economically important.

NOTE 1: Being a Local objective, to be applied at individual States or ATC Unit level, to achieve their performance targets the objective does not have a mandatory implementation deadline. As indicative guidance, the FOC of the OI Steps on which all the three SESAR Solutions (#12; #13, #52; #71) are based are 31/12/2024 for SDM-0201 and 15/11/2023 for SDM-0205.

NOTE 2: This objective is linked to SESAR Solutions #12, #13, #71, and #52.

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

(Low to medium complexity aerodromes,

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IOC used for Analytics functioning only - not for implementation planning	31/05/2019		Applicability Area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 -	[SDM-0201]·	Remotely Provided Air Tra	affic Service for S	Single Aerodrome			
	Enablers -	AERODROME AERODRO -ATC-52 -ATC-5	$\Box = C \Box E_{\bullet} S \Omega 2$	d REG-0509			
OI step -	[<u>SDM-0204]</u> - <u>Runway)</u>	Remotely Provided Air Tra	affic Service for (Contingency Situati	ons at Small to Medium	<u>Aerodromes</u>	(with a Single Main
	Enablers -	AERODROME -ATC-51					
OI step -	[SDM-0205]·	Remotely Provided Air Tra	affic Services for	Two Low-density /	<u>Aerodromes</u>		
	Enablers -	AERODROME -ATC-54 CTE-S02	2d REG-052	5			
Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA Objective coverin	(s) in another objective g the enabler	WXYZ- 003	Not covered in the Implementation Plan

Applicable legislation

-none-

Remote Tower Services

Essential Operational Changes

Virtualisation of Service Provision

SESAR Solution

#12 - Single Remote Tower operations for medium traffic volumes, #13 - Remotely Provided Air Traffic Service for Contingency Situations at Aerodromes, #52 - Remote Tower for two low density aerodromes, #71 - ATC and AFIS service in a single low density aerodrome from a remote CWP

ICAO GANP - ASBUs

 RATS-B1/1
 Remotely Operated Aerodrome Air Traffic Services

 Deployment Programme

- none -

European Plan for Aviation Safety

RMT.0624

Remote aerodrome ATS

Operating Environments

Airport

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
AOP14.1-REG01	Supervise compliance with regulatory provisions		
AOP14.1-ASP01	Develop, and deliver as necessary, a safety assessment of the changes imposed by the implementation of remote tower		
AOP14.1-ASP02	Define and implement system improvements allowing for the implementation of remote tower		
AOP14.1-ASP03	Develop and implement procedures for the use of Remote Tower		
AOP14.1-ASP04	Train all operational and technical personnel concerned		
AOP14.1-ASP05	Implement remotely provided air traffic service for contingency situations		
AOP14.1-APO01	Define and implement local airport procedures and processes for the implementation of remote tower concept		
AOP14.1-APO02	Train all operational and technical personnel concerned		

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

Expected Performance Benefits

Safety:	-
Capacity:	-
Operational Efficiency:	Improve the uniformity of service provision at low to medium density and remote aerodromes and sustain or increase the availability of the service (for example allowing ATS to be provided at an aerodrome, which previously was unable to financially support a service).
Cost Efficiency:	Cost reduction for ATS by optimisation of working time and conditions of ATCOs. Remote ATS facilities with several remote tower modules will be cheaper to maintain, and enable lower operating costs due to equipment economies of scale. The financial benefit may be further increased when operating in multiple mode, although in spring 2022 no multiple operations has been approved yet. It will also significantly reduce the requirement to maintain tower buildings and infrastructure. Cost benefits of RCT due to customer retention and reduced economic loss during contingency events.
Environment:	-
Security:	-

Detailed SLoA Descriptions

AOP14.1-REG01	Supervise compliance with regulatory provisions	From: -	By: -
Action by:	Regulatory Authorities		

AOP14.1	Remote Tower Services						
Description & purpose:	Supervise compliance with regulatory provisions for implementation of remote tower concept. The tasks to be done cover among others: - Ensure that all aerodromes where remote tower concept will be implemented are certified in accordance with applicable regulations Ensure the safety oversight of change related to the implementation of remote tower concept Ensure that all concerned operational and technical personnel received appropriate ratings/endorsements for their job functions in relation to the implementation of remote tower concept.						
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url : <u>https://www.easa.europa.eu/document-library/agency-decisions/ec</u> EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services	d-decision-2019004r					
	Url: https://www.easa.europa.eu/document-library/notices-of-proposed-amendment/npa-2022-02-and-npa-2022-02-b						
ATM Master Plan relationship:		REG-0509]-Regulatory Provisions for the harmonised deployment of Remote Towers Operations (for a single aerodrome)					
Finalisation criteria:	 The regulatory authorities have evidence of the status of compliance with regulatory provisions for aerodromes where remote tower concept is implemented. 						
AOP14.1-ASP01	Develop, and deliver as necessary, a safety assessment of the changes imposed by the implementation of remote tower	From: -	By: -				
Action by:	ANS Providers	1					
Description & purpose:	Develop safety assessment of the change to functional system imposed (including Remote Contingency Tower, where applicable). The tasks to	d by the introduction o	f the remote tower concept				
	 Conduct hazard identification, risk assessment in order to define safet the risks; Develop safety assessment; Deliver safety assessment to the NSA, if new standards are applicable 2. 	y objectives and safet e or if the severity clas	y requirements mitigating				
Supporting material(s):	 Conduct hazard identification, risk assessment in order to define safet the risks; Develop safety assessment; Deliver safety assessment to the NSA, if new standards are applicable 	y objectives and safet e or if the severity clas ethod. OJ L 62, 8.03.2017, p down common requir ment network function	y requirements mitigating as of identified risks is 1 or b. 1) - COMMISSION rements for providers of air s and their oversight,				
Supporting material(s):	 Conduct hazard identification, risk assessment in order to define safet the risks; Develop safety assessment; Deliver safety assessment to the NSA, if new standards are applicable 2. This safety assessment shall be based on fully validated/recognised me EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - 0 IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying traffic management/air navigation services and other air traffic manage repealing Regulation (EC) No 482/2008, Implementing Regulations (EU) 	y objectives and safet e or if the severity clas ethod. OJ L 62, 8.03.2017, p down common requir ment network function I) No 1034/2011, (EU)	y requirements mitigating as of identified risks is 1 or b. 1) - COMMISSION rements for providers of air s and their oversight, No 1035/2011 and (EU)				
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AOP14.1	Remote Tower Servi	ces					
Description & purpose:	When implementing a remote tower module, a number of system improv display to ATCO/AFISO an "out of the window like" (OTW) image of the ATCO/AFISO situational awareness. In addition, all the tools and facilitie be remotely controlled, including, inter alia, ground-ground and ground-a aerodrome lighting controls. A mix of basic and advanced technical feat - Basic features: * Visual (panorama) presentation (OTW); and * Binocular functionality camera(s). - Advanced features: * additional visual 'hot spot' cameras * the use of infrared or other optical sensors/cameras outside the vis * binocular functionality automatically following moving objects (com * dedicated means to facilitate the detection, identification and autor presentation (e.g. by labels based on surveillance data, complemented commonly referred to as 'radar tracking'); * dedicated means to facilitate the detection and following of moving highlighting/framing such objects based on image processing systems, of * other overlaid information in the visual presentation such as framin compass directions, meteorological information, aeronautical information information (e.g. runway conditions like water, snow or mud presence, c * ATS surveillance (air and/or ground radar presentation).	airport and its vicinity as available to a towe air communications, t ures should be consid sible spectrum monly referred to as natic following of airc by flight plan correlati objects in the visual commonly referred to g and/or designation n (NOTAM, SNOWTA	v and to increase er controller will also need to raffic light controls and dered including: PTZ tracking') raft or vehicles in the visual on when available, presentation (e.g. by as 'visual tracking'); of runways, taxiways, etc., M, etc.), other operational				
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url : https://www.easa.europa.eu/document-library/agency-decisions/ed		erodrome air traffic				
EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and NPA 2022-02 (B) Remote aer services Url : <u>https://www.easa.europa.eu/document-library/notices-of-proposed-amendment/npa-2022-02-and</u> EUROCAE - ED-240A - Minimum Aviation System Performance Standards (MASPS) for Remote Tow Systems 10/2018							
TM Master Plan	Url : https://eshop.eurocae.net/eurocae-documents-and-reports/ed-240a	<u>1/#</u>					
elationship:	[AERODROME-ATC-52]-Provide Remote Tower Controller position with visual reproduction of both remoted aerodrome views and other sensor data. [AERODROME-ATC-53]-Remote Tower controller position enhanced with additional sources for low visibility conditions [AERODROME-ATC-54]-Provide a Remote CWP that enables one ATCO to control 2 remote towers (low-density) simultaneously [CTE-S02d]-Video Based Surveillance						
inalisation criteria:	1 - The ANSP system has been upgraded according to the specification	s for the remote towe	r concept.				
AOP14.1-ASP03	Develop and implement procedures for the use of Remote Tower	From:	By: -				
Action by:	ANS Providers						
Description & purpose:	Ensure that all procedures and processes applicable for the remote tow scenario for remote tower aerodrome. These procedures should take int for a single or for multiple aerodromes, the traffic volumes as well as the movements as derived from the safety assessment and approved by the	o account if the conc acceptable number	ept is being implemented				
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019 Url : https://www.easa.europa.eu/document-library/agency-decisions/ed		erodrome air traffic				
	EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services	NPA 2022-02 (B) Re					
The stand of the standard stand	Url : https://www.easa.europa.eu/document-library/notices-of-proposed-						
inalisation criteria:	1 - The ATC/AFIS procedures have been updated to take on board the	· _ ·					
AOP14.1-ASP04	Train all operational and technical personnel concerned	From: -	By: -				
Action by:	ANS Providers						
	Ensure that all operational and technical personnel concerned are adequately trained and hold appropriate ratings/endorsements for their job functions in relation to the approved implementation of remote tower (including for						
Description & purpose:	Remote Contingency Tower, where applicable).	Remote Contingency Tower, where applicable). EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic services and repealing Decision 2015/014/R 02/2019					
Description & purpose: Supporting material(s):	Remote Contingency Tower, where applicable). EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019		erodrome air traffic				
	Remote Contingency Tower, where applicable). EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance	- <u>decision-2019004r</u> NPA 2022-02 (B) Re	mote aerodrome air traffic				

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Remote Tower Services

	Implement remotely provided air traffic service for contingency	From:	By:			
AOP14.1-ASP05	situations	-	-			
Action by:	ANS Providers					
Description & purpose:	Implement the remote tower concept for contingency situations when the be provided from the contingency location. This specific solution should - Definition and implementation of system improvements allowing for the contingency situations, - Definition and implementation of procedures and processes in support implementation of remote tower for contingency situations, including reg personnel concerned.	cover the following step implementation of rem of network and local dir	is: ote tower for nension imposed by the			
Supporting material(s):	SJU - SESAR Solution 13: Data Pack for Remotely provided air traffic se	ervice for contingency s	ituations at aerodromes			
	Url : https://www.sesarju.eu/sesar-solutions/remotely-provided-air-traffic-	-service-contingency-sit	uations-aerodromes			
ATM Master Plan	[AERODROME-ATC-51]-Remote Tower Centre (RTC) position that in co	ontingency situation hos	sts ATCO that will no			
elationship:	longer be located at the local Tower.					
Finalisation criteria:	1 - Remote Contingency Tower (RCT) in place and available for operation	onal use.				
AOP14.1-APO01	Define and implement local airport procedures and processes for the implementation of remote tower concept	From: -	By: -			
Action by:	Airport Operators					
Description & purpose:	Ensure that all procedures and processes applicable for the remote tower concept are updated to the chosen operat scenario for remote tower aerodrome and agreed with the ATSP.					
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance Material on remote aerodrome air traffic services and repealing Decision 2015/014/R 02/2019					
	Url : https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r					
	EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and NPA 2022-02 (B) Remote aerodrome air traffic services					
	Url : https://www.easa.europa.eu/document-library/notices-of-proposed-	amendment/npa-2022-0)2-and-npa-2022-02-b			
Finalisation criteria:	1 - The local airport procedures have been updated to take on board the	remote tower service p	provision.			
		From:	By:			
AOP14.1-APO02	Train all operational and technical personnel concerned	-	-			
Action by:	Airport Operators	•	1			
Description & purpose:	Ensure that all operational and technical personnel concerned are adequate the implementation of remote tower.	uately trained for their jo	bb functions in relation t			
Supporting material(s):	EASA - ED Decision 2019/004/R - ED Decision 2019/004/R - Guidance services and repealing Decision 2015/014/R 02/2019	Material on remote aero	odrome air traffic			
	Url : https://www.easa.europa.eu/document-library/agency-decisions/ed-	-decision-2019004r				
	EASA - NPA 2022-02 (A) and NPA 2022-02 (B) - NPA 2022-02 (A) and services	NPA 2022-02 (B) Remo	te aerodrome air traffic			
	Url : https://www.easa.europa.eu/document-library/notices-of-proposed-	amendment/npa-2022-0	<u>)2-and-npa-2022-02-b</u>			
Finalisation criteria:	 Training plans covering remote tower requirements have been development of the plane been trained. 	oped and all operationa	l and technical personr			