AOP14.2 — Multiple Remote Tower Module

The Remote Tower concept is changing the provision of Air Traffic Services (ATS) in a way that it is more service tailored, dynamically positioned and available when and where needed, enabled by digital solutions replacing the physical presence of controllers and control towers at aerodromes.

This Objective aims for increased cost efficiency by allowing ATCO to maintain situational awareness and provide air traffic services for 2 or 3 airports simultaneously. Implementation is expected address airports with the following traffic characteristics regarding simultaneous movements (including mix of IFR and VFR, as well as aerodrome vehicles):
• 2 airports with 6 simultaneous movements in total, up to 20 movements (ground and air) per hour in peak, 15.000 to 45.000 annual movements
• 3 airports with 4 simultaneous movements in total, up to 15 movements (ground and air) per hour, up to 15.000 annual movements

NOTE 1: This is an "Initial" objective to provide advance notice to stakeholders. Some aspects of the objective require further validation.

NOTE 2: The baseline for multiple remote tower operations is the single remote tower operations (AOP14.1). Transfer from conventional tower service local at the aerodrome to multiple Remote Tower is foreseen to take the step via Single Remotely controlled Air Traffic Service before a combination of more than one aerodrome in multiple mode is in place

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.

Edition	2022
Stakeholders	Regulator / Air Navigation Service Provider
Type	SESAR
Scope	Local/Airport
Status	Initial

Context

Related Elements

OBJ AOP14.2

OI SDM-0207

Applicability Area(s) and Timescales

Applicability Area: *(Not defined yet)*

Timescales	From	By	Applicable to
IOC used for Analytics functioning only - not for implementation planning	01-07-2022	-	
FOC used for Analytics functioning only - not for implementation planning	-	31-12-2030	

Links to ATM Master Plan Level 2

OI Operational Improvment Steps

Code	Title	IOC	FOC	Related Elements
SDM-0207	Remotely Provided Air Traffic Service for Multiple Aerodromes (up to 3 aerodromes)	30-06-2027	30-06-2031	SOL OI EN DS ICAO

SOL Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			

PCP Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
No record found		

ICAO ICAO Block Modules: No associated data

References

Applicable legislation
None
Applicable ICAO Annexes and other references
None
Deployment Programme 2022
-
Operating Environments
-

Expected Performance Benefits

Safety	-
Capacity	-
Operational efficiency	-
Cost efficiency	Reduced costs by a reduction of ATCOs of up to 25% compared to Single Remote Tower
Environment	-
Security	-

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
REG01	Amend the regulatory framework			
ASP01	Implement a Multiple Remote Tower Module			
ASP02	Implement procedures supporting the operational use of MRTM			
ASP03	Safety assessment			
ASP04	Training			
ASP05	Operational Use			

Supporting Material

Title	Related SLoAs
EASA - Guidance Material on remote aerodrome air traffic services — Issue 2 and 'AMC & GM to Part ATCO' — Issue 1, Amendment 2 (Executive Director Decision 2019/004/R) https://www.easa.europa.eu/document-library/agency-decisions/ed-decision-2019004r	ASP01, ASP02, ASP03, ASP04, ASP05, REG01
SJU - SESAR Solution PJ.05-02: Data pack for Multiple Remote Tower Module https://cordis.europa.eu/project/id/730195/results	ASP01, ASP02, ASP03, ASP04, ASP05, REG01

Consultation & Approval

Working Arrangement in charge	Airport Operations Team (AOT)
Outline description approved in	-
Latest objective review at expert level	-
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	-
Latest change to objective approved/endorsed in	-