



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



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| IOC used for Analytics functioning only - not for implementation planning | 01-07-2022 | - | |
| FOC used for Analytics functioning only - not for implementation planning | - | 31-12-2030 | |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 Improvement 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 | - |