



ATC23 — Initial Air-Ground Trajectory Information Sharing (Ground Domain)

Trajectory information shall be enhanced by using air-ground trajectory exchange. The preliminary steps for the deployment of Initial Trajectory Information Sharing consists of the downlink of Extended Projected Profile (EPP) data from the aircraft and processing of this data by the ATC systems.

The ground systems will enable controllers to display the downlinked route on the Controller Working Position. It will be automatically cross-checked whether the downlinked route is consistent with what the expected trajectory on the ground. In case of inconsistency, controllers will receive a warning.

System requirements:

- Ground systems shall support ADS-C/ EPP application as part of ATS B2 services while keeping compatibility with Controller Pilot Data Link Communications (CPDLC) services as required by Commission Regulation (EC) No. 29/2009 (amended by IR 310/2015) including the provision of service to flights equipped only with ATN-B1.
- All ATS providers defined in section 6.3.1 of this document and related ATC systems shall be able to receive and process EPP trajectory information.
- The ATC systems shall enable controllers to display the route of the downlinked trajectory.
- The ATC systems shall provide a warning to controllers in case of a discrepancy between the downlinked trajectory and the expected route.

NOTE: Implementation of this Objective can only be done in conjunction with Objective ATC22, which is providing the corresponding aircraft functionalities.

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	Air Navigation Service Provider
Type	CP1
Scope	EU
Status	Initial

Context

Related Elements







Applicability Area(s) and Timescales

- Applicability Area 1:** All EU SES States
(All EU SES States)
- Applicability Area 2:**

Timescales	From	By	Applicable to
Initial Operational Capability	01-01-2024	-	Applicability Area 1
Full Operational Capability / Target Date	-	31-12-2027	Applicability Area 1

Links to ATM Master Plan Level 2

Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
IS-0303-A	Downlink of on-board 4D trajectory data to enhance ATM ground system performance: initial and time based implementation	31-12-2022	31-12-2027	    

Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			

Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
No record found		

 ICAO Block Modules: No associated data

References

Applicable legislation

Regulation (EU) 2021/116 on the establishment of the Common Project One

Applicable ICAO Annexes and other references

None

Deployment Programme 2022

Family 6.1.2 - Initial Air-Ground Trajectory Information Sharing (Ground Domain)

Operating Environments

-

Expected Performance Benefits

Safety	Increased ground situational awareness.
Capacity	-
Operational efficiency	-
Cost efficiency	-
Environment	-
Security	-

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
ASP01	Description of common requirements for ADS-C/EPP Data integration into ANSP Systems	01-01-2024	31-12-2027	
ASP02	Complete ANSP System deployment	01-01-2024	31-12-2027	
ASP03	Safety Assessment	01-01-2024	31-12-2027	
ASP04	Training	01-01-2024	31-12-2027	
ASP05	Operational use	01-01-2024	31-12-2027	

Supporting Material

Title	Related SLoAs
SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 https://www.sesardeploymentmanager.eu/publications/deployment-programme	ASP01, ASP02, ASP03, ASP04, ASP05

Consultation & Approval

Working Arrangement in charge	-
Outline description approved in	-
Latest objective review at expert level	-
Commitment Decision Body	-
Objective approved/endorsed in	-
Latest change to objective approved/endorsed in	-