

ER APP ATC 104b — Adapt Controller Conflict Detection and Resolution Tools to Use Enhanced Trajectory Prediction

Controller tools are adapted to use an enhanced Trajectory Prediction model obtained through the use of improved data (e.g. extended flight plan, downlinked aircraft parameters [Mode-S or ADS-B], extended projected profile, met data).

Current and frequently changing aircraft kinematic parameters and aircraft intent data shall be used to improve the 4D trajectory prediction. The resulting improvement in the 4D trajectory prediction provides greater accuracy of information used by conflict detection and resolution tools.

The trajectory prediction algorithm is improved through the use of ADD such as:

- Selected altitude and vertical rate: to improve modelling of vertical maneuvers
- Short term intent: to improve modelling of the immediate future route intent and ETOs.
- Air speed, true air speed: to improve modelling of ground speed and ETO calculation.
- Magnetic heading, roll angle and track angle rate: to improve modelling of turn maneuvers.

 Conflict detection (aircraft to aircraft and aircraft to airspace) and resolution is adapted to the variable degree of reliability of the different sources of trajectory information.

Category SYSTEM

Stakeholder Air Navigation Service Provider

Civil

Civil ATS Approach Service Provider Civil ATS En-Route Service Provider

V3 End 30-12-2022

 V4 Start
 30-12-2024
 V4 End
 30-12-2027

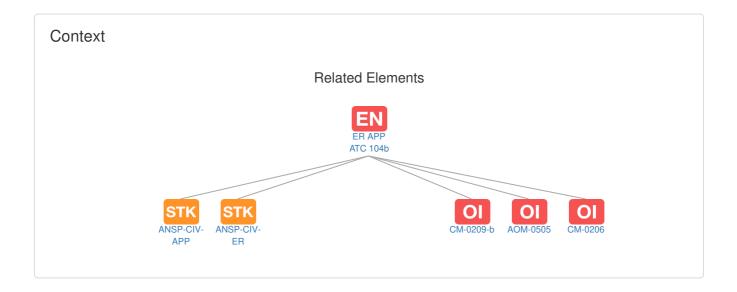
 V5 Start
 30-12-2027
 V5 End
 30-12-2029

Air Navigation Service Provider: 30-

12-2029 *Civil*

Civil ATS Approach Service Provider: 30-12-2029 Civil ATS En-Route Service Provider: 30-12-2029

IOC 30-12-2029 **FOC** 30-12-2033



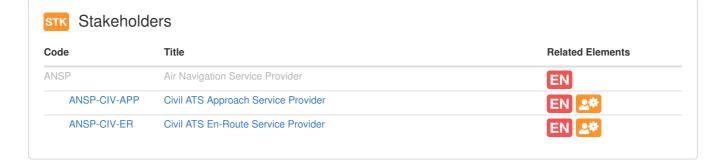
Source: European ATM Portal - Report produced: 11-12-2023 - Date refresh: 28-09-2023

EATMA data version: EATMA V12.1 - ATM Master Plan data set version: Dataset 19 Public - MP L3 Edition: MP L3 Plan 2022

Code	Benefits start date (IOC) - Full benefit date (FOC)																									
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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△ CM-0209-b																										
→ AOM-0505																										
→ CM-0206																										

EN Dependent Enablers: No associated data

PCP PCP Elements: No associated data



- Standards: No associated data
- **OBJ** Implementation Objectives: No associated data
- Stakeholder Lines of Action (SLoAs):No associated data
- PJ SESAR Workpackages: No associated data