



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

V5 Start 30-12-2027

V4 End 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

Context

Related Elements



