



CM-0815 — Enhanced Short Term Conflict Alert (STCA) ground Safety Net using DAPs information via Mode-S technology

Improvement of the performance of the Short Term Conflict Alert (STCA) using the following Downlinked Aircraft Parameters via Mode-S Enhanced Surveillance (EHS):

- Final State Selected Altitude (FSSA)
- Vertical Rate
- Roll Angle
- True Track Angle
- Track Angle Rate

Improvements such as early detection that the separation mode could be compromised and avoid nuisance alerts. Information related with the current aircraft downlinked parameters and intentions are used to improve the predicted trajectory and therefore to determine potential conflict precisely and accurately

Rationale Provide to the controllers with a reliable short term conflict alerting system improved with the use of DAPs information via Mode-S. The objective is to reduce the number of nuisance alerts in situation managed by ATC and to increase the warning time in case of unsafe aircraft manoeuvres.

Forecast V3 end date 31-12-2021

Benefits start date (IOC) -

Full benefits date (FOC) -

Current Maturity Level V1 finalised

Solution Data Quality Index -

Current Maturity Phase R&D

Scope -

Release -

PCP Status -

Context

Related Elements



EN Enablers: No associated data

OI Dependent OI Steps: No associated data

SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.11-G1	Enhanced Short Term Conflict Alert (STCA) and Non Transgression Zone (NTZ) Ground Based Safety Nets making use of DAPs information.	SESAR 2020 Wave 1	SOL PJ OI DS EOC

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data