



ATC02.2 — Implement ground based safety nets - Short Term Conflict Alert (STCA) - level 2 for en-route operations

Implement and make operational use of the Short Term Conflict Alert (STCA) ground based safety net for en-route operations in line with the EUROCONTROL Specification for STCA and the related guidance material.

An explanation of the difference between Level 1 and 2 is described below.

Before starting first operations, air traffic controllers must receive training, aimed at creating an appropriate level of trust in the concerned safety net. The time-criticality of alerts and the need for immediate attention or action must be well understood, but also the situations in which safety nets are less effective.

Safety nets performance must be monitored and regularly analysed, not only to improve the safety nets but also to identify other safety improvement opportunities. For example, "hot spots" could be identified and removed by making changes to airspace structure or procedures.

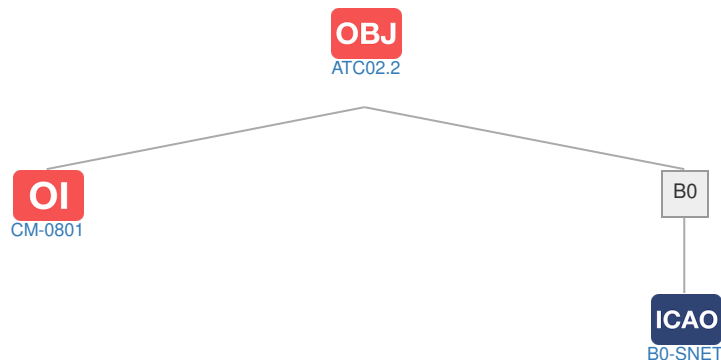
NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each Military Authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the Military Authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to MIL Authorities.

Military ATC authorities are invited to consider implementation of STCA level 2 when providing ATS surveillance services to GAT.

Edition	2022
Stakeholders	Air Navigation Service Provider
Type	SESAR
Scope	ECAC
Status	Achieved

Context

Related Elements



Applicability Area(s) and Timescales

Applicability Area: All ECAC+ States

Timescales	From	By	Applicable to
Initial operational capability	01-01-2008	-	Applicability Area
Full operational capability	-	31-01-2013	Applicability Area

Links to ATM Master Plan Level 2

OI Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
CM-0801	Ground Based Safety Nets (TMA, En-Route)	31-12-2006	31-12-2010	EN OBJ 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

Designator	Title	Related Elements
B0		
B0-SNET	Ground based safety nets	OI OBJ

References

Applicable legislation

None

Applicable ICAO Annexes and other references

None

Deployment Programme 2022

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Operating Environments

Terminal Airspace

En-Route

Expected Performance Benefits

Safety	The systematic presentation of potential infringements of separation minima to controllers ahead of their occurrence, as provided by STCA, is a major safety assurance tool.
Capacity	N/A
Operational efficiency	-
Cost efficiency	Standardisation of STCA enables cost-effective use of resources and is in particular a critical success factor for smaller ASP.
Environment	N/A
Security	N/A

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
REG01	Conduct safety oversight of the changes	DELETED		
ASP01	Implement STCA function for en-route operations	01-01-2008	31-01-2013	EN
ASP02	Align ATCO training with the use of STCA ground-based safety tools	01-01-2008	31-01-2013	
ASP03	Develop safety assessment for the changes	01-01-2012	31-01-2013	

Supporting Material

Title	Related SLoAs
<p>EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - (OJ L 62, 8.03.2017, p. 1) - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying down common requirements for providers of air traffic management/air navigation services and other air traffic management network functions and their oversight, repealing Regulation (EC) No 482/2008, Implementing Regulations (EU) No 1034/2011, (EU) No 1035/2011 and (EU) 2016/1377 and amending Regulation (EU) No 677/2011 03/2017</p> <p>https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R0373&from=EN</p>	ASP03
<p>EUROCONTROL - Air Navigation Systems Safety Assessment Methodology (SAM) - Version 2.1 / 11/2006</p> <p>https://www.eurocontrol.int/tool/safety-assessment-methodology</p>	ASP03
<p>EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation in ATM - Edition 1.0 / 04/2001</p> <p>https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm</p>	ASP03
<p>EUROCONTROL - GUID-159 - EUROCONTROL Guidelines for Short Term Conflict Alert - Part I to III - Edition 1.0 / 01/2017</p> <p>https://www.eurocontrol.int/publication/eurocontrol-guidelines-short-term-conflict-alert-stca</p>	ASP01
<p>EUROCONTROL - SPEC-108 - EUROCONTROL Specification for Short Term Conflict Alert - Edition 1.0 / 11/2007</p> <p>https://www.eurocontrol.int/publication/eurocontrol-specifications-short-term-conflict-alert-stca</p>	ASP01, ASP02
<p>EUROCONTROL - Safety Nets - A guide for ensuring effectiveness - August 2017</p> <p>https://www.eurocontrol.int/sites/default/files/publication/files/safety-nets-guide-august-2017.pdf</p>	ASP01, ASP02, ASP03

Consultation & Approval

Working Arrangement in charge	SAFETY / SPIN SG
Outline description approved in	-
Latest objective review at expert level	05/2017
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	07/2000
Latest change to objective approved/endorsed in	07/2014