



ATC02.5 — Implement ground based safety nets - Area Proximity Warning - level 2

Implement and make operational use of the Area Proximity Warning (APW) ground based safety tool in En-Route airspace, applicable TMAs and Military ATC units providing surveillance services.

Area Proximity Warning (APW) is a ground based safety net which uses surveillance data and flight path prediction to warn the controller when an aircraft is, or is predicted to be, flying into a volume of notified airspace, such as controlled airspace, danger areas, prohibited areas and restricted areas. APW is intended to function in the short term

Terrain and traffic characteristics can lead to a significant safety risk that can be mitigated by this tool.

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.

In order to avoid the "Cry Wolf" syndrome, the number of nuisance and false alerts must be reduced to a minimum. Air traffic controllers should be encouraged to report unexpected and unwanted safety nets behaviour and feedback should always be provided.

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 APW level 2 when providing ATS surveillance services to GAT

Existing draft EUROCONTROL Specification for APW could be used as guidance material (ref. supporting material of individual SLoAs)

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

Context

Related Elements



Applicability Area(s) and Timescales

Applicability Area: All ECAC States

Timescales	From	By	Applicable to
Initial operational capability	01-01-2009	-	Applicability Area
Full operational capability	-	31-12-2016	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: No associated data

References

Applicable legislation

Commission Regulation (EU) No 716/2014 on the establishment of the Pilot Common Project

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 imminent and actual unauthorized penetrations into airspace volumes to controllers ahead of their occurrence, as provided by APW, is a major safety assurance tool.
Capacity	N/A
Operational efficiency	-
Cost efficiency	Standardisation of APW enables cost-effective use of scarce 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	Approve EUROCONTROL Specification for APW	DELETED		
ASP01	Implement the APW function	01-01-2009	31-12-2016	EN
ASP02	Align ATCO training with the use of APW ground-based safety tools	01-01-2009	31-12-2016	
INT01	Amend ICAO documentation if required	DELETED		
AGY01	Produce EUROCONTROL Specification for APW and related guidance material	DELETED		

Supporting Material

Title	Related SLoAs
EUROCONTROL - GUID-125 - EUROCONTROL Guidance Material for Area Proximity Warning - Edition 1.0 / 05/2009 https://www.eurocontrol.int/sites/default/files/publication/files/20090519-apw-guid-v1.0.pdf	ASP01, ASP02
EUROCONTROL - Safety Nets - A guide for ensuring effectiveness - August 2017 https://www.eurocontrol.int/sites/default/files/publication/files/safety-nets-guide-august-2017.pdf	ASP01, ASP02

Consultation & Approval

Working Arrangement in charge	SAFETY / SPIN SG
Outline description approved in	03/2012
Latest objective review at expert level	04/2012
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	07/2006
Latest change to objective approved/endorsed in	07/2012