



COM12 — New Pan-European Network Service (NewPENS)

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PENS (Pan-European Network Service) is an international ground/ground communications infrastructure jointly implemented by EUROCONTROL and European ANSPs in order to meet existing and future ATM communication requirements.

NewPENS builds on PENS and aims at providing a new framework, with an adapted governance, to reap the benefits of having a single IP backbone for all ATM services in the ICAO EUR/NAT region.

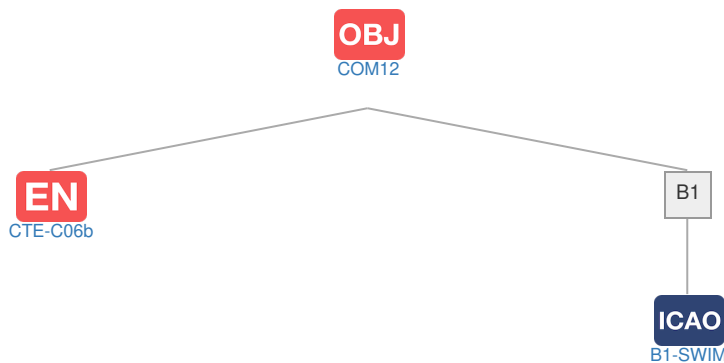
The aim of NewPENS is to support information exchanges for all ATM services, not only for ANSPs and the Network Manager, but also supporting interactions with military, airport and aircraft operator. It is up to these stakeholders, depending on their requirements, to join NewPENS or use public Internet Protocol network

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 military Authorities.

Edition	2022
Stakeholders	Air Navigation Service Provider / Airport Operator / Airspace Users / Network Manager
Type	SESAR
Scope	ECAC+
Status	Active

Context

Related Elements



Applicability Area(s) and Timescales

Applicability Area 1:

All EU+ States except: Georgia, Greece, Lithuania, Moldova, Slovenia. Plus: Ukraine, United Kingdom
(ANSPs signatories of the NewPENS Common Procurement Agreement: AL (Albcontrol), AT (Austrocontrol), BA (BHANSA), BE (BELGOCONTROL), BG(BULATSA), CH (Skyguide), CY (DCA), CZ (ANS CZ), DE (DFS), DK (Naviair), EE (EANS), ES (ENAIRES), FI (Finavia), FR (DSNA), HR (Crocontrol), HU (Hungarocontrol), IE (IAA), IT (ENAV), LU (ANS Luxembourg), LV (LGS), MK (M-NAV), MT (MATS), MUAC, NL (LVNL, RNLAf), NO (AVINOR), PL (PANSa), PT (NAV Portugal), RO (ROMATSA), RS (SMATSA), SE (LFV), SK(LPS SR), UA (UKASTE), UK(NATS))

Applicability Area 2:

Armenia, Azerbaijan, Georgia, Greece, Israel, Lithuania, Moldova, Morocco, Slovenia, Türkiye
(Stakeholders from the ECAC States not listed in Applicability Area 1.)

Timescales	From	By	Applicable to
Initial operational capability	01-01-2018	-	Applicability Area 1 + Applicability Area 2
Full operational capability (33 ANSPs)	-	31-12-2024	Applicability Area 1
Full operational capability (Other stakeholders)	-	31-12-2024	Applicability Area 2

Links to ATM Master Plan Level 2

EN Enablers

Code	Title	IOC	Related Elements
CTE-C06b	PENS - Phase 2	31-12-2016	    





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
B1		
B1-SWIM	Performance Improvement through the application of System Wide Information Management (SWIM)	   

References

Applicable legislation

None

Applicable ICAO Annexes and other references

None

Deployment Programme 2022

-

Operating Environments

Airport

Terminal Airspace

En-Route

Network

Expected Performance Benefits

Safety	-
Capacity	-
Operational efficiency	-
Cost efficiency	<p>Significant cost savings for the international communications of all connected stakeholders compared to:</p> <ul style="list-style-type: none"> - Keeping the inter-stakeholder connections separate from the network. - Continuing to run all international communications on bilateral international links.
Environment	-
Security	<p>NewPENS will further enhance security protection, detection and remediation capabilities with respect to PENS. It shall be compliant with the Security levels requested by the applications it will support. Security will be handled on multiple levels: technical, processes and people.</p>

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
ASP01	Provide NewPENS connectivity infrastructure	01-01-2018	31-12-2024	EN
ASP02	Migrate to NewPENS	01-01-2018	31-12-2024	EN
APO01	Migrate to NewPENS, if deemed beneficial	01-01-2018	31-12-2024	EN
USE01	Migrate to NewPENS, if deemed beneficial	01-01-2018	31-12-2024	EN
NM01	Adapt NM systems to allow stakeholders have access to existing datacentres via NewPENS	01-01-2018	31-12-2020 31-12-2024	EN
NM02	Migrate to NewPENS	01-01-2018	31-12-2020 31-12-2024	EN

Supporting Material

Title	Related SLOAs
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No record found

Consultation & Approval

Working Arrangement in charge	Agency Advisory Board (AAB)
Outline description approved in	-
Latest objective review at expert level	06/2017
Commitment Decision Body	Provisional Council (PC)
Objective approved/endorsed in	09/2016
Latest change to objective approved/endorsed in	09/2017