

Preliminary Market Consultation

Title: Preliminary Market Consultation (PMC) for Pan-European Network Services (PENS)

General: EUROCONTROL is an intergovernmental organization with 41 Member and 2 Comprehensive Agreement States. We are committed to building, together with our partners, a Single European Sky that will deliver the air traffic management (ATM) performance required for the twenty-first century and beyond.

Technical subject matter: The Pan European Network Services (IP connectivity infrastructure)

Deadline: 31 March 2025, 15:00 CET

Point of Contact: Interested parties, please contact (before the deadline):

Nathalie Moedersheim
PENS Management Unit
Email: nathalie.moedersheim@eurocontrol.int
Tel: + 32 2 729 3240

Context: The Pan-European Network Services (PENS) provides widespread IP-connectivity services to aviation stakeholders for cross-border communication. The mission and vision for PENS are to create economies of scale, reduce fragmentation and improve the interoperability of European and inter-regional information exchange. As a key enabler for a sustainable and cost-efficient interoperable European Air Traffic Management (EATM) Network, PENS ambitions to be THE common European IP-connectivity infrastructure facilitating seamless cross-border and inter-regional connectivity among aviation stakeholders.

While significant progress in rationalising IP-connectivity has been achieved across Europe over the past decade, there are challenges when it comes to

SUPPORTING EUROPEAN AVIATION

Member States: Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Republic of Moldova, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye, Ukraine, United Kingdom.

Comprehensive Agreement States: Israel, Morocco.

achieving the PENS ambition. It is notably observed that a myriad of ad-hoc and regional IP-connectivity solutions still co-exist besides the PENS network.

It is also recognized that diverging stakeholders' perspectives on actual needs have resulted in today's complex reality of IP-connectivity implementation.

To help steer PENS towards its intended evolution, the aim is to increase the overall resiliency of PENS and replace existing ad-hoc and regional IP-connectivity solutions (existing beside PENS) with a more sustainable, and cost-effective one for all stakeholders of the EATM Network.

Therefore,

- A dual-core strategy is considered, allowing for a maximum level of separation between two networks with a requirement for redundant, separated and independent control planes. Both networks shall support the same set of functionalities (be able to accommodate all communication flows namely data and ATC voice)
- There is no technology option excluded upfront.
- Work in progress aims to ascertain how market capabilities, providers' portfolios, industry trends can help achieve the business objectives.
- Further details can be provided upon request.

PENS in Numbers:

Geographical Scope

- 44+ Countries of the ICAO EUR/NAT region and bordering countries
- 46 PENS Users → going to 48
- 116+ Service Delivery Points (SDPs)

Service Scope

- IP data-communication (largest deployment base)
- Voice communication (development ongoing)

	NewPENS Users	Country		NewPENS Users	Country		NewPENS Users	Country
1-2	EUROCONTROL (NM - MUAC)		20	ENAV	Italy	36	ONDA	Morocco
3	AirNav Ireland	Ireland	21	ENNA	Algeria	37	ORONAVIGACIJA	Lithuania
4	ALBCONTROL	Albania	22	ESSP	(pending connection)	38	PANSA	Poland
5	ANA	Luxemburg	22	FinTraffic ANS	Finland	39	Ports of Jersey	Jersey
6	ANS CR	Czech Republic	23	IAA Israel	Israel	40	RNLAF	The Netherlands
7	AUSTROCONTROL	Austria	24	ISAVIA	Iceland	41	SAKAERONAVIGATSIA	Georgia
8	AVINOR	Norway	24	KNMI	The Netherlands (pending con.)	42	SKEYES	Belgium
9	AZANS	Azerbaijan	25	LFV	Sweden	43	SKYGUIDE	Switzerland
10	BULATSA	Bulgaria	26	LPS SR	Slovakia	44	SLOVENIACONTROL	Slovenia
11	CROCONTROL	Croatia	27	LGS	Latvia	45	SMATSA	Serbia and Montenegro
12	DCAC	Cyprus	28	LVNL	The Netherlands	46	ROMATSA	Romania
13	DFS	Germany	29	M-NAV	Republic of North Macedonia			
14	DHM	Republic of Türkiye	30	MATS	Malta			
15	DSNA	France	31	NATS	United Kingdom			
16	EANS	Estonia	32	NAV Canada	Canada			
17	ENAIRE	Spain	33	NAV Portugal	Portugal			
18	HASP	Greece	34	NAVIAIR	Denmark			
19	HUNGAROCNTROL	Hungary	35	OACA	Tunisia			