

Safety and Certification

Ivan Ferencz

Senior Expert – ATM/ANS

Your safety is our mission.

Overview

- SATCOM Iris in the Regulatory framework
- Certification aspects and status

Iris as a Communication Service

Regulation (EC) 549/2004 defines the communication services: aeronautical fixed and mobile services to enable ground-to-ground, **air-to-ground** and air-to-air communications **for ATC purposes**

Controller-pilot data link communications CPDLC is a communication service subject to certification

Iris as a Communication Service

Scope of ANSP certificates

Services/Functions	Type of Service/Function	Scope of Service/Function	Limitations ¹
Communication, navigation or surveillance services (CNS)	Communications (C)	Aeronautical mobile service (air-ground communication)	
		Aeronautical fixed service (ground-ground communications)	
		Aeronautical mobile satellite service (AMSS)	
	Navigation (N)	Provision of NDB signal in space	
		Provision of VOR signal in space	
		Provision of DME signal in space	
		Provision of ILS signal in space	
		Provision of MLS signal in space	
		Provision of GNSS signal in space	
	Surveillance (S)	Provision of data from primary surveillance (PS)	
		Provision of data from secondary surveillance (SS)	
		Provision of automatic dependent surveillance (ADS) Data	
Conditions ²			



Certification aspects and status

ATM/ANS service providers certified to provide the Communication – Aeronautical Mobile Service is authorised to provide both voice and data air-ground communication

Provision of Iris service requires a certification for Aeronautical Mobile satellite Service (AMSS)

Majority of European ATM/ANS providers are not certified for the AMSS

Certification aspects and status

Iris service provision models

1. ATS (ATM/ANS) provider is itself **certified** for AMSS and Iris service is contracted to an organization **certified** for AMSS
2. ATS (ATM/ANS) provider is itself **certified** for AMSS and Iris service is contracted to an organization **not certified** for AMSS
3. ATS (ATM/ANS) provider is **not certified** for AMSS and Iris service is contracted to an organization **certified** for AMSS
4. ATS (ATM/ANS) provider is **not certified** for AMSS and Iris service is contracted to an organization **not certified** for AMSS



Certification aspects and status

Benefits of Iris Service Provider (ISP) certification

- ATS (ATM/ANS) provider does not need to be certified for AMSS
- ATS (ATM/ANS) does not need to perform oversight of ISP
- ISP is not exposed to audits from ATM/ANS providers and their national competent authorities
- Assurance of Safety, Quality, Security, Performance and Interoperability

Any Questions?

easa.europa.eu/connect



Your safety is our mission.

An Agency of the European Union 