WG-108 ATN/IPS
Strategy
Terms of reference

WG 108

22 December 2017

The role of EUROCAE WG-108 is to provide European standards for ATN/IPS. As the ATN/IPS system represents a complete network with avionics and ground systems, EUROCAE should provide guidance on end-to-end interoperability and certification.

Based on the inputs from ICAO, and in coordination with the AEEC IPS and RTCA SC-223 activities, EUROCAE WG-108 will be able to determine what exactly is needed to ensure the deployment of ATN/IPS. In particular, ICAO will standardize the needed features for ATN/IPS such as Security, Addressing, Mobility… This will require providing guidance to ensure a consistent end-to-end deployment.

EUROCAE WG-108 will prepare a guidance document to ensure that the ATN/IPS deployment answers to the need in terms for safety, security and performance.

In order to perform these activities, the WG-108 will synchronize with RTCA, with the objective to work as a joint group (for common deliverables such as profiles) and will get inputs from ICAO. The WG-108 will phase its activity as follow:
1. Discuss with RTCA SC-223 with the objective to have a joint approach,
2. Prepare the guidance document for publication,
3. Based on discussions with RTCA, WG-108 could also provide new deliverables such as profiles for ATN/IPS. MOPS are not considered on EUROCAE side as there is no need.

WG-108 and RTCA SC-223 will have to synchronize with ICAO as the ICAO ATN/IPS standards are being updated to address the Air/Ground part.

WG-108 will also have to coordinate with EASA about the needed guidance for certification and with the AEEC IPS group.

WG-108 will also have to coordinate with other groups working on topics such as security, SWIM, air-ground communication links…

Please tick at least one of the strategic criteria below:

	Criteria the proposal is related to	YES
1	**Initiated at EC request** (e.g. Common Project, EASCG) • linked to ICAO ASBU or development of standards resulting from a request through the roundtable (GANP & GASP) in support of future regulatory requirements • linked to the European Plan for Aviation Safety	☐
2	Could be recognized as **Means of Compliance (MOC) within the Aviation Safety Regulations** (EASA IR/AMC/GM)	☒
3	Could be used as **Means of Compliance (MOC) in support of SES Regulations** • in support of the ATM research, development and validation in Europe • in support of the deployment of SESAR technical solutions	☐
4	**Supports the European Aeronautical Industry** (New & Novel business development or Technology)	☒
5	Addresses an emerging **safety issue.**	☐
6	Could give **EUROCAE a unique competence** in a particular domain.	☐
7	Is in line with any other specific objective supported by the Council (please specify in the text above)	☐

WG-108 Work Programme

[the WG work programme will be subject to TAC approval if within strategic ToR]

Summary of Work Programme:

Document type	Draft title	Target date
Guidance document	Guidance on ATN/IPS end-to-end interoperability and certification	T0 + 24 months

[prepare 1 form (next page) / deliverable]

The purpose of this section is to describe exactly what a new task for a WG encompasses, its results and how it will be undertaken.

If the proposed tasks are outside the above ToR, the proposal needs to be accompanied by a proposal for updated ToR as well.

WG-108 Task Sheet

[prepare 1 sheet for each deliverable]

Task Designator	[will be given by EUROCAE Secretariat]
Task Type	☒ new standard document ☐ update of existing standard document ☐ technical/research report ☐ re-initiation of postponed/cancelled task ☐ other (please specify): _____
Purpose and justification of the proposal	Guidance document for the end-to-end interoperability supporting airborne certification. As ATN/IPS is defining a complete network involving avionics and ground systems, there is a need to guidance on the deployment
Deliverable type (please refer to Handbook and ED Drafting Guide for details on document types)	☐ MASPS ☐ Process Specification ☐ OSED ☐ Technical Specification ☐ SPR ☒ Guidance document ☐ INTEROP ☐ ER ☐ MOPS
Deliverable title	ATN/IPS end-to-end interoperability guidance document
Proposed duration (target date for submission to Open Consultation)	☐ 12 months ☒ 24 months ☐ 18 months ☐ other

Joint activity	☐ EUROCAE WG-108 ☒ RTCA [SC223]
	                    ☐ SAE [indicate committee]
	                    ☐ other (please specify):
	                    _____

Relation to existing work or deliverables	This deliverable will be aligned with the definition of ATN/IPS done at ICAO level and with the related standards from SAE and RTCA
Relevant existing input documents	ICAO 9896
Stakeholder impact and expertise needed	All avionics manufacturers, CSPs, ANSPs, EASA, FAA
EUROCAE members supporting this task	Airbus, EUROCONTROL

Envisaged use of deliverable (tick all applicable categories)	☒ Linked to ICAO (GANP / GASP)	☒ Supports the European Aeronautical Industry
	☒ MOC Aviation Safety Regulations (EASA IR/AMC/GM)	☐ Emerging safety issue
		☐ Unique competence for EUROCAE
	☐ MOC SES Regulations	
	☒ SESAR (R&D / deployment)	☐ other (please specify): _____
Liaisons	RTCA SC-223(TBC), AEEC ATN/IPS group, ICAO COM panel PT-T, WG-72/SC-216, WG-78/SC-214, WG-104, WG-92	
Additional information	N/A	
Annexes	N/A	