



Draft minutes for Joint SC147/WG75 108<sup>th</sup> Plenary meeting on 12 June 2025

The following agenda was agreed:

1. Chairman's opening remarks/ Introductions
2. Anti-Trust Statement & RTCA/EUROCAE Policy
3. Approval Of Minutes From 107th Plenary
4. Approval of Agenda
5. ToR Update
6. European progress on DAA MOPS and their validation
7. XR Volume 1 and 2 Status and Schedule
8. CSM MOPS Status and Schedule
9. Schedule Discussion
10. Future Meeting schedule
11. Any other business – ACAS Xa in Europe
12. Summary of actions

1. Chairman's opening remarks/ Introductions

Ruy Brandao led the meeting and gave apologies from Stuart Searight who was unable to attend. All participants briefly introduced themselves.

2. Anti-Trust Statement & RTCA/EUROCAE Policy

Rebecca Morrison for RTCA and Alex Engel for EUROCAE presented the organisations' Anti-Trust statements and policies. Of note was that EUROCAE is on Blue sky as well as LinkedIn

3. Approval Of Minutes From 107th Plenary

Ruy asked if there were any comments on the minutes of the 107<sup>th</sup> Plenary. Stacey then proposed that the minutes of the 107<sup>th</sup> Plenary should be accepted. Garfield seconded the motion. The minutes were agreed without objection.

4. Approval of Agenda

After brief discussion, the agenda was agreed as shown above.

5. ToR Update

Rocky talked about the TORs. He proposed that we create a working paper on what can be done to reduce the alerting altitudes on ACAS Xa. The change to the TOR he initially proposed was:

Product	Description	FRAC/RAC Completion Due Date	FRAC or RAC	Projected Publication Date**	Formatted Title
Internal Report: Recommendations to the TAC and PMC for amending RA in the ACAS Xa MOPS	Recommendations to the TAC and PMC (Add Rocky's discussion)	April 2026	RAC	June 2026	New

The scope could be wider if desired e.g. interactions with Xa and other systems. We could look at mechanisms to ensure that the false/ unnecessary alert rate is kept low. Garfield said that EUROCONTROL would be open to the idea. Neal said that he would support open discussions on the topic. He noted that substantial Human Factors activity would be required. Although altitude thresholds were reconfirmed with ACAS Xa MOPS; following the Washington DC accidents assessments may change. Wes also expressed support but noted that ALPA involvement was important in any discussions. He noted that the report timescale overlapped with existing work and a delay until June 2026 for RAC/OC and publication in September would be better.

The scope could be extended to ACAS X in general if we control the degrees of changes outside ACAS Xa.

Rebecca said that this should be called an internal report, only for the committee and PMC to review.

The committee developed the following TOR addition:

Product	Description	Projected Delivery to PMC/TAC
<b>Internal Report: Recommendations to the TAC and PMC for amending RA in the ACAS Xa MOPS</b>	<b>Recommendations to the TAC and PMC on amending ACAS-X MOPS (s) to address safety at lower altitudes (e.g. reduce alert inhibit altitude(s) while maintaining acceptable nuisance alert rate).</b>	<b>June 2026</b>

Garfield proposed a motion to agree the change; Stacey seconded the motion. There were no objections.

#### 6. European progress on DAA MOPS and their validation.

Garfield presented the current progress in developing European DAA MOPs (often referred to as EUDAAS). The MOPS are currently in comment resolution prior to open consultation/ FRAC. He noted that the approach for validating implementations is very different from TCAS/ ACAS X systems, since it will be based on performance requirements rather than conformance to implementing specific code. Open consultation is expected for the end of this year.

Garfield also presented 3 SESAR projects involved with validating RPAS operations in Europe, including extensive validation of DAA systems in both controlled and uncontrolled airspaces. It is currently expected that RPAS integration into Airspace classes A-G will be validated to TRL6 by the end of 2028.

#### 7. XR Volume 1 and 2 Status

Stacey and Ruy described the status and schedule of ACAS Xr Volume 1 and 2 MOPS. On the TWG progress has been slow as substantial changes have been required:

- On displays e.g to symbology,
- To address “steal and bloom behaviour
- Limiting RAs when close to terrain

On the SWG significant progress has occurred, focussing on the interface section to the STM and the output to the TRM. Many briefings were given that highlighted changes needed in both volumes.

Next steps are to clean up the document for OCMs; and the signal interface/ own ship interface and associated monitoring updates. There are some challenges

- There is a need to clear up the bearing accuracy issues
- Surveillance range requirements
- Test section development
- Documenting the interface to CSM

40+ joint SWG/TWG comments remain, and more frequent joint sessions are necessary.

Alan Sigman will retire in September. His contribution has been very valuable and his loss to the work represents a risk.

#### 8. Cooperative Surveillance MOPS (CSM) Status

Stacey gave a presentation on the status and schedule of the CSM. ¾ of the comments have been resolved. There are some major tasks still to be done; notably:

- Test procedures especially for class 2 and class 3
- How to allow low and slow vs high and fast and associated ranges.
- How to ensure acceptability of class 2

#### 9. Schedule Discussion

Ruy presented the current status of the MOPS schedule:

Xr Vols 1&2

- Enter FRAC            Dec 25
- Exit FRAC             Feb 26
- Finalised MOPS       Jun 26

## CSM

- Enter FRAC May 26
- Exit FRAC June 26
- Finalised MOPS August 26

Any changes to TOR can be done in September. SC228 is aware of our planned schedule.

Need to develop a plan for taking improvements from Xr to Xu e.g. the “steal and bloom issue”. The FAA program office does not have the resources to update DO-386, but will write up what needs to be changed.

### 10. Future Meeting schedule

Ruy led a discussion to agree on future meetings.

PMC: 25 September, 16 December

### SC147/WG75:

- August/ September several joint WG meetings tbd.
- Remote plenary 4<sup>th</sup> September 9am – 11am EST – to review schedule and TORs.

### 11. Any other business

- a. ACAS Xa in Europe: EASA published [Implementing regulation - EU - 2025/343 - EN - EUR-Lex](#) in February 2025 to introduce ACAS Xa in EU airspace.

Garfield announced his upcoming retirement from EUROCONTROL, and thanked all on the committee for their collaboration, patience and good humour.

### 12. Summary of actions

The following actions were agreed during the meeting

Description of action	Responsible actors	Target Date
Post SESAR ERICA Validation report and IRINA Metrics and acceptability criteria for DAA to Aeropa	Garfield	30 June
Reach out to ALPA to ensure they are aware of the TORs update	Alexander Para	30 June

Attendees:

<b>First</b>	<b>Last</b>	<b>Representing</b>
A.	Long	
Adam	Panken	
Alan	Sigman	
Alexander	Para	RTCA
Alexander	Engel	EUROCAE
Benjamin	Zintak	THU / APL
Brian	Spinks	ACSS
Chris	Swider	FAA
Chris	Maholm	DG
Garfield	Dean	Eurocontrol
Jay	Doerr	ACSS
Jean-René	GELY	Thales
Jen	Scott	MITRE
Jorge	Alvarez	
Kara	Breeden	MIT
Martin	Kearney-Fischer	
Matt	Sanford	MITRE
Matthew	Haslan	FAA
Michael	Vaupell	
Neal	Suchy	FAA
Randal	Guendel	MITLL
Rebecca	Morrison	RTCA
Rockey	Stone	NTSB
Rudy	Johnson	
Ruy	Brandao	
Sam	Wu	MITLL
Sarah	Filipova	Eurocontrol
Shea	Byon	ALPA
Siva	Sivananthan	
Stacey	Rowlan	Sagotech Avionics

Stuart	Searight	FAA
Wes	Olson	MITLL