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 RTCA Paper Number: 333-20/SC223-101

St Denis & Washington, December 5, 2020

Minutes of EUROCAE WG-82 / RTCA Special Committee SC-223 (Plenary #40) Joint Meeting
“AeroMACS Standards”

Date	December 2, 2020
Time	10am – Noon EST, 4pm – 6pm CET
Hosted by	Virtual Meeting
Venue	For Webex, Contact Rebecca or Anna Guegan
Contact	<p>Rebecca Morrison, Program Director, RTCA (202) 330-0654 or rmorrison@rtca.org</p> <p>Anna Guegan, Technical Programme Manager, EUROCAE anna.guegan@eurocae.net</p>

Attendees:

Name	Role	Affiliation
Correas, Antonio	Member	SKYMANTICS
d'Humières, François	Member	FREQUENTIS A.G.
Georgiou, Peter	Guest	FEDERAL AVIATION ADMINISTRATION (FAA)
Graefe, Jonathan	Member	COLLINS AEROSPACE
Guegan, Anna	Director	EUROCAE
Hawkins, Richard	Member	WIMAX FORUM
Hideyuki, Ishii	Member	JRANSA JAPAN
Ladron, Daniel	Member	THE BOEING COMPANY
Morrison, Rebecca	Manager	RTCA, INC.
Munro, Alistair	Member	AIRBUS
Nguyen, Lee	Member	FEDERAL AVIATION ADMINISTRATION (FAA)
Niraula, Madhu	Member	COLLINS AEROSPACE
Nisbet, David	Member	THALES GROUP
Phillips, Brent	Government Authorized Representative	FEDERAL AVIATION ADMINISTRATION (FAA)
Pierattelli, Simona	Member	LEONARDO
Prieto, Gonzalo	Guest	EUROPEAN SATELLITE SERVICES PROVIDER (ESSP)
Roy, Alope	SC-223 Chair	HONEYWELL INTERNATIONAL, INC.
Sarhage, Adam	Guest	GARMIN

Schlereth, Armin	WG-82 Chair	DFS DEUTSCHE FLUGSICHERUNG GMBH
Segers, Robert	member	FEDERAL AVIATION ADMINISTRATION (FAA)
Vivaldi, Giulio	Member	LEONARDO
Weger, Roberto	Member	SITTI
Williams, Jim	Guest	JHW UNMANNED SOLUTIONS LLC
Yonemoto, Naruto	Member	ELECTRONIC NAVIGATION RESEARCH INSTITUTE (ENRI)
Zaruba, Radek	Member	HONEYWELL INTERNATIONAL, INC.
Zeng, Dongsong	SC-223 Secretary	THE MITRE CORPORATION

AGENDA

1. Welcome address. Meeting Organisational Issues
2. Approval of the Agenda
3. Administrative Remarks and Review of Previous Meeting Notes
4. Discussion of requested changes against DO-346/ED-223
 - a. WG-105 spectrum coordination
 - b. SC-228 spectrum coordination
5. Discussion of work plan and schedule to update DO-346/ED-223
6. Review and Approve TOR changes for SC-223 and WG-82
7. Plan for Future Meeting
8. Any Other Business of Interest
9. Review of Meeting Decisions and Actions
10. Adjourn

Agenda Items 1. Welcome address. Meeting Organizational Issues

Aloke Roy, SC-223 Chair, and Armin Schlereth, WG-82 Chair, welcomed the participants.

Agenda Item 2. Approval of the Agenda

The group reviewed and approved the above meeting agenda.

Agenda Item 3. Administrative Remarks and Review of Previous Meeting Notes

Rebecca Morrison, Program Director, RTCA, and Anna Guegan, Technical Programme Manager, EUROCAE, presented the RTCA/EUROCAE antitrust, proprietary and membership policy statements. All participants agreed on the statements and no issue were raised.

The group reviewed and approved the previous meeting notes.

Agenda Item 4. Discussion of requested changes against DO-346/ED-223

Agenda Item 4a. WG-105 spectrum coordination

Armin Schlereth, DFS, brought to the group attention that some satellite communication systems that use C-band frequencies might potentially have interference/compatibility issues with AeroMACS systems. Alistair Munroe from EUROCAE WG-105 confirmed that with respect to interference with AeroMACS no issue has been identified with their actual Draft MOPS on SATCOM C2-link described in EUROCAE ED-265. This is due to the fact that AeroMACS is in line with ITU-Regulations. The non-concur from SC-228 on the ED-265 during their FRAC/OC process came from the fact that there is potential interference with the terrestrial CNPC-link

(DO-362A) and the one described in ED-265 based on SATCOM as both are using the same frequency band 5030 to 5091 MHz. But this is out of scope of RTCA SC-223 and EUROCAE WG-82.

Agenda Item 4b. SC-228 spectrum coordination

Lee Nguyen, FAA, pointed out that SC-228 is currently concerned about the compatibility issues between AeroMACS and C2Link systems.

Dongsong Zeng, MITRE, presented slides titled “Comparison of AeroMACS Emission Mask Amendment Options,” that compare the existing emission masks in the MOPS and SARPs with the mask proposed by SC-228. Giulio Vivaldi, LEONARDO, pointed out that it might be OK that the MOPS spurious emission specifications are less stringent than those specified in SARPs, and the MOPS doesn’t need to be changed at all. The group discussed the point and was intent on keeping MOPS aligned with SARPs.

Action 1. Alfonso Malaga to provide absolute AeroMACS spurious emission levels required by SC-228.

Agenda Item 5. Discussion of work plan and schedule to update DO-346/ED-223

The group discussed the plan for AeroMACS MOPS update.

Decision 1. It was generally agreed that SC-223 and WG-82 will revise DO-346/ED-223 to address the required changes to ensure compatibility with other communication systems and standards by November 2022.

Action 2. Alope Roy to flesh out **Decision 1** in the draft SC-223 TOR revision proposal and share it with Armin for WG-82 TOR update.

Agenda Item 7. Plan for Future Meeting

Next joint SC-223/WG-82 meeting is scheduled from 10:00 AM-12:00 PM EST, February 10, 2021

Agenda Item 8. Any Other Business of Interest

No other business topics were brought up during the meeting.

Agenda Item 9. Review of Meeting Decisions and Actions

Meeting actions were reviewed during the meeting and recorded below.

Agenda Item 10. Adjourn

The meeting was adjourned around 12:00pm EST, December 2, 2020.

List of Action Items

Action Item #	Action Content	Responsible	Due Date	Status
P39-1	Reach out to AeroMACS manufacturers for their real product emission data	Simona Pierattelli, Giulio Vivaldi, and Ishii Hideyuki	Nov. 25, 2020	2020-12-02: Closed. Richard Hawkins will reach out to WiMAX and AeroMACS manufacturers for measurement data.
P39-2	Recalculate and verify the unit conversion of various emission masks.	Dongsong Zeng and Alfonso Malaga	Nov. 25, 2020	2020-12-02: Closed.
P39-3	Draft SC-223/WG-82 TOR revision proposal	Alope Roy and Armin Schlereth	Dec. 2, 2020	2020-12-02: Open.
P40-1	Provide absolute AeroMACS spurious emission levels required by SC-228	Alfonso Malaga	Feb. 3, 2021	

P40-2	Flesh out Decision 1 in the draft SC-223 TOR revision proposal and share it with Armin for WG-82 TOR update	Aloke Roy	Feb. 3, 2021	
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Dongsong Zeng
Secretary

CERTIFIED as a true and accurate summary of the meeting.

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Aloke Roy
SC-223 Chairman

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Armin Schlereth
WG-82 Chairman