



RTCA Paper No. 028-20/SC222-080
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Washington, 9 April 2020
 St Denis, 9 April 2020

**Minutes of EUROCAE
 WORKING GROUP 82 (WG-82) (Meeting #40) and RTCA SPECIAL COMMITTEE 222
 (SC-222) (Meeting #37)
 “New Air-Ground Data Link Technologies”
 related to SATCOM**

Date	23rd, 24th and 30th January 2020
Place	Virtual Meeting
Venue	EUROCAE – Webex
Hosted by	EUROCAE

Participants:

Name	Company	23 rd	24 th	30 th
Andrew Ives	INMARSAT	X	X	X
Alan Schuster-Bruce	INMARSAT	X	X	X
Sachin Chhibber	Ligado	X	X	X
Karan Hofmann	RTCA (SC-222 PD)	X	X	X
Anna Guegan	EUROCAE (WG-82 TPM)	X	X	X
Johan Gericke	COBHAM SATCOM	X	X	X
Armin Schlereth	DFS (Chair WG-82)	X	X	X
Richard Tapp	Honeywell	X	X	X
Adam Sarhage	Garmin	X	X	X
David Green	Collins Aerospace	X	X	X
Chuck LaBerge	LaBerge Engineering (Chair SC-222)	X	X	X
Martina Angelone	ESA	X		
Nigel Silverthorn	Honeywell	X	X	
Ravi Jain	Federal Aviation Administration	X	X	X
Stephen van Trees	Federal Aviation Administration	X	X	
Cindy Freud	MITRE		X	
Jila Rainer Koll	Stellar Aerospace	X	X	X
Jose Godoy	ARINC Incorporated			
Sam Weich	Ligado Networks		X	X
Maqbool Aliani	Ligado	X		
Giillaume de bony de Lavergne	AIRBUS	X	X	X

DOCUMENTS

Agenda Item	Title	File name
1	Calling Notice and Agenda	SC-222 (37) and WG-82 (40) Calling Notice.pdf
2	Meeting Minutes of last Meeting	222_37_WG-82_Meeting_39_Minutes_final
4	MASPS Core Document	DO-343C – FRAC_ED-242B OC – edits-FRAC by Inmarsat.docx
4	MASPS Attachment on SBB	DO-343B Att – FRAC_ED-242B Att OC – edits post FRAC by Inmarsat.docx
6	MOPS DO-210D	
7	MOPS on SBB	

Documents related to SBB are available on the EUROCAE WG-82 SharePoint and on the RTCA SC-222 Workspace.

Documents related to IRIDIUM are available on the RTCA SC-222 Workspace.

PRESENTATIONS

Agenda Item	Title	File name

No presentations have been given at the meeting.

Welcome, Introductions, Administrative Remarks by Special Committee Leadership

Armin Schlereth (DFS) welcomed the group.

Karan Hofmann from RTCA informed about the anti-trust policy, IPR policy call and participation membership for RTCA and EUROCAE working groups.

1. APPROVAL OF THE AGENDA

After a round table, Armin Schlereth introduced the final agenda of the RTCA SC-222/ EUROCAE WG-82 Plenary meeting which looked as follows:

AGENDA

23, 24, and 30 January 2020 (9:00 am – 12:00 pm ET) – (15:00 – 18:00 pm CEST)

Welcome, Introductions, Administrative Remarks by Special Committee Leadership

- Government Authorized Representative (GAR): Steve Van Trees
- Chair RTCA SC-222: Dr. Chuck LaBerge, LaBerge Engineering
- Chair EUROCAE WG-82: Dr. Armin Schlereth, DFS

1. Agenda Overview
2. Review/Approve prior Plenary Meeting Summary – (action item status)
3. Coordination with other GROUPs (EUROCAE, RTCA, SESAR, AEEC)

4. Review/Resolution of SATCOM MASPS DO-343B/ED-242A Final Review and Comment / Open Consultation (FRAC / OC) Comments
5. Decision to approve release and presentation of DO-343C/ED-242B to PMC and Council

6. Review/Resolution of DO-210D Change 5 FRAC Comments
7. Decision to approve release and presentation of DO-210D Change 5 to PMC and Council

8. Review/Resolution of SATCOM MOPS DO-262D/ED-243A FRAC / OC Comments
9. Decision to approve release and presentation of DO-262E/ED-243B to PMC and Council

10. Industry Presentations
11. Update Work Plan for SC-222 and WG-82
12. Establish Agenda, Date and Place for next meeting
13. Review of Action Items
14. Adjourn – Plenary meeting

2. Minutes of last meeting and action item status

The minutes of the last meeting were reviewed and approved. The action item list has been reviewed focusing on the open actions and their status. The updated action item list is outlined at the end of the present minutes.

3. Coordination with other GROUPs

EUROCAE

No input provided at the meeting.

ICAO

No input provided at the meeting.

RTCA

No input provided at the meeting.

AEEC

No input provided at the meeting.

SESAR

No input provided at the meeting.

IRIS-IOC

No input provided at the meeting.

4. Review/Resolution of SATCOM MASPS DO-343B/ED-242A Final Review and Comment Open Consultation (FRAC / OC') Comments

Andrew Ives (INM) went through the comments provided to the documents on Inmarsat SBB MASPS. Details are documented in the final Excel-comments-sheet. The SC-222 / EUROCAE WG-82 Plenary meeting discussed all provided comments and could finally close all open items.

5. Decision to approve release and presentation of DO-343C/ED-242B to PMC and council

Final DO-343C/ED-242B Minimum Aviation System Performance Standard for AMS(R)S Data and Voice Communications Supporting Required Communications Performance (RCP) and Required Surveillance Performance (RSP) FRAC/OC resolution was completed. Consensus was reached. Document was approved releasable to Council and PMC for final approval and publication

Action item on Andrew Ives to provide the final updated documents until **14th February 2020** to the RTCA and EUROCAE secretariat!

6. Review/Resolution of DO-210D Change Note 5 FRAC Comments

Richard Tapp (Honeywell) went through the comments provided to the document on DO210-D. Details are documented in the final Excel-comments-sheet. The SC-222 / EUROCAE WG-82 Plenary meeting discussed all provided comments and could finally close all open items.

7. Decision to approve release and presentation of DO-201D Change Note 5 to PMC and council

DO210-D Change Note 5 FRAC resolution was completed. Consensus was reached. Document was approved releasable to PMC for final approval and publication

Action item on Richard Tapp to provide the final updated documents until **14th February 2020** to the RTCA and EUROCAE secretariat!

8. Review/Resolution of SATCOM MOPS DO-262D/ED-243A Final Review and Comment Open Consultation (FRAC / OC') Comments

Richard Tapp (Honeywell) went through the comments provided to the documents on Inmarsat SBB MOPS. Details are documented in the final Excel-comments-sheet. The SC-222 / EUROCAE WG-82 Plenary meeting discussed all provided comments and could finally close all open items.

9. Decision to approve release and presentation of DO-262E/ED-243B to PMC and council

Final DO-262E/ED-243B Minimum Operational Performance Standard for Avionics Supporting Next Generation Satellite systems (NGSS) FRAC/OC resolution was completed. Consensus was reached. Document was approved releasable to Council and PMC for final approval and publication

Action item on Richard Tapp to provide the final updated documents until **14th February 2020** to the RTCA and EUROCAE secretariat!

10. Industry Presentations

No industry presentations have been given.

In that context Ravi Jain from FAA highlighted the need to further discuss on how to proceed with the SATCOM TSO update. He asked whether an update related to SBB should come from the European side. The group finally decided to further discuss this item at the next Plenary meeting scheduled for June 2020.

11. Establish Agenda, Date and Place for next meeting

For RTCA SC-222 and EUROCAE WG-82 the planning of next steps has been discussed. The following next meeting has been agreed on.

WEBEX's:

- **No WEBEX meeting(s) are planned.**

Physical Meetings:

- **23 and 24 June 2020** **SC-222/WG-82** Plenary Meeting in London at INMARSAT

Note: This meeting is planned as a Plenary meeting to mainly discuss progress on IRIDIUM Next material.

12. Adjourn – Plenary meeting

Action items

RTCA-SC222 / EUROCAE WG-82 30th meeting: 6.02.2018 and 7.02.2018

Action#	Content	Responsible	Deadline	Status
A30-09	<p>Review of SC-228 slides and material (ITU M.2127) to provide feedback on the following items:</p> <ol style="list-style-type: none"> 1) Support of 2000 UA 2) 10 – 100 kbps per UA (Peak!) 3) Voice latency of 390 millisecond maximum 4) Use of protected spectrum (L-Band) <p>Discussion at WG-82#31: Chuck will provide a response on it asap.</p> <p>Discussion at WG-82/#32: Values might change in the MASPS for UAS. MASPS are available end of the year. So no activities required by WG-82/SC-222 until availability of MASPS.</p> <p>Discussion at WG-82/#33: MASPS on C2 link support by SATCOM expected Q1/2019.</p> <p>Discussion at WG-82/#34: Status unchanged.</p> <p>Discussion at Plenary June 2019: Status unchanged.</p> <p>Discussion at Plenary July 2019: Current priority on MASPS and MOPS actual documents. Status unchanged.</p> <p>Status Plenary Sept 2019: Status unchanged. Current publication schedule has higher approval.</p> <p>Status Plenary Nov 2019/Jan 2020: Status unchanged. Current publication schedule has higher approval</p>	Chuck	asap	Open

RTCA-SC222 / EUROCAE WG-82 31st meeting: 26.06.2018 and 28.06.2018

Action#	Content	Responsible	Deadline	Status
A31-03	<p>Contact EUROCAE WG-105 (RPAS) to ask for requirements on SATCOM Performance Class A</p> <p>Discussion at WG-82/#34: Still open. Armin to take care of it soon.</p> <p>Discussion at WG-82/#35: Still open.</p> <p>Discussion at Plenary June 2019: Status unchanged.</p> <p>Discussion at Plenary July 2019: Current priority on MASPS and MOPS actual documents. Status unchanged.</p> <p>Status Plenary Sept 2019: Status unchanged.</p> <p>Status Plenary Sept 2019/Jan 2020: Status unchanged. Current publication schedule has higher approval.</p>	Armin	asap	Open

RTCA SC-222/EUROCAE WG-82 meeting: 12.06. and 13.06.2019

Action#	Content	Responsible	Deadline	Status
A36-02	<p>Armin to organize a WEBEX specifically dedicated to Performance Class A planning in October/November 2019 timeframe.</p> <p>Armin to invite also SC-222 as they are monitoring progress on this.</p>	Armin	Q1/2020	Open
A36-03	<p>Clarify changes on classic aero TSO. Harmonize planned change 5 for DO210-D with actual TSO.</p> <p>Plenary Jan 2020: This coordination is outside work of RTCA SC-222 and WG-82 therefore closed.</p>	Steve van Trees/Chuck	June 2020	Closed
A36-04	<p>Distribute Draft ICAO SATCOM SARPS to Armin and chuck for further distribution within SC-222 and WG-82. Review by both groups appreciated.</p> <p>Status Plenary July 2019: Armin to ask Nikos on this matter.</p> <p>Status Plenary Sept 2019: ICAO PT-S plans to provide the draft SARPs for EUROCAE/RTCA review and comments in January 2020.</p>	Nikos Fistas	End January 2020	Open

RTCA SC-222/EUROCAE WG-82 meeting: 19.09. and 20.09.2019

Action#	Content	Responsible	Deadline	Status
A38-01	Consider Ligado potential interference issue on the Iridium MOPS in the Iridium Working Group session Plenary SC-222 and WG-82 Nov 2019: IRIDIUM wants to have it part of the Plenary discussion. Make a new AI out of it. Closed this one!	Chuck Laberge	October Meeting of SC-222	Open

RTCA SC-222/EUROCAE WG-82 meeting: 23.01., 24.01. and 30.01.2020

Action#	Content	Responsible	Deadline	Status
A40-01	SATCOM NG MASPS on Inmarsat SBB: Action item on Richard Tapp to provide the final updated documents until 14th February 2020 to the RTCA and EUROCAE secretariat!	Andrew Ives	14 th February 2020	Open
A40-02	DO210-D: Action item on Richard Tapp to provide the final updated documents until 14th February 2020 to the RTCA and EUROCAE secretariat!	Richard Tapp	14 th February 2020	Open
A40-03	SATCOM NG MOPS on Inmarsat SBB: Action item on Richard Tapp to provide the final updated documents until 14th February 2020 to the RTCA and EUROCAE secretariat!	Richard Tapp	14 th February 2020	Open