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Saint Denis, 17Feb2023  
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<p align="center"><b>EUROCAE WG-119 Plenary Meeting #11 “Radar Altimeter” / RTCA SC-239 Plenary Meeting #11 “Low Range Radar Altimeter”</b></p>
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**DATE:** 17 Feb, 2023

**TIME:** 9 AM – 1 PM US Eastern Time

**PLACE:** Hybrid (RTCA – DC / Online)

**CONTACTS:**

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**AGENDA**

1. Welcome and Introductions
2. EUROCAE/RTCA presentations (Administrative Reminders)
3. Validation of the previous Plenary MoM
4. Working Group Reports
5. Review of Schedule and Scope for MOPS development
6. Discussion of Future Meetings
7. Other Business
8. Review of Action Items
9. Adjourn

**PARTICIPANTS**

Rebecca Morrison	RTCA
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Hagop Kazarian – Bombardier	Bombardier
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Sai Kalyanaraman - Collins Aerospace	<u>Collins</u>
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Eddie Straub (Garmin)	<u>Garmin</u>
H. Brutscher AIRBUS Helicopters	Airbus
Dave Redman	AVSI
Miles Bellman – FAA	FAA
Timo Warns / Airbus	Airbus
PAGLIARINI Mauro	EASA
Kim Kolb	Boeing
Jean-Luc Robin (Airbus)	Boeing
Kambiz Rahnvardy, FCC	FCC
Seth Frick - Honeywell	Honeywell
Paul Dunlap (Airbus Helicopters, Inc.)	Airbus
Donny Morrow ALPA	ALPA
Hussain Al-Sadi – Boeing	Boeing
Ed Hahn / ALPA	ALPA
Ted Peterson Collins	Collins

## 1. Welcome, Introductions and Administrative Remarks

Jean Luc welcomes the group and the group did a round of introductions.

## 2. EUROCAE/RTCA presentations (Administrative Reminders)

Required set of presentations on RTCA and Eurocae policies were provided.

### **3. Validation of the previous Plenary MoM**

Sai presented minutes for the last 2 plenaries and obtained approval from the group. Seth mentioned that there is ongoing activity on closing out the DO-399/ED-310 document and that there is an update on that later in the plenary discussions today.

### **4. Working Group Reports**

Jean Luc went through the list of SG's and introduced the scope of plenary updates that we will address today and handed over to Eddie Straub who leads SG4.

Eddie listed the scope of items that SG4 plans to cover (all performance reqs and test procedures with the exception of spectrum, RFI and data security reqs). He indicated that there are technical challenges to address and these include identification of potential new MOPS categories, TSO classes, antenna performance declaration procedures, updated loop loss models and identify necessary details on other reqs such as accuracy, time constant, noise. He also identified the potential schedule and resource risks associated with these efforts. SG4 worked to hone the scope of the items that the group will work on in the ensuing months and this can be seen in Jean Luc's final plenary slides.

Timo Warns presented the SG6 status and shared the basic high level approach for determine RA security. SG6 activity restarted earlier in Jan of 23 and the focus of discussions is to look at the threat model and integrity approaches. Next steps for SG6 include validation of RFI detection need/conops, reqs and test proc development and validation efforts.

Miles bellman presented the SG3 status and indicated that the group had two meetings since the beginning of the year. The SG was continuing to refine the max transmit power and OOB emissions reqs to go along with the same. Test procedures were yet to be developed.

Kim Kolb provided an SG2 status update and share the updated envelope of the global emissions mask which was based on the identified RF environment. This is based on the state of information in Appdx. B of DO-399/ED-310. Moving forward the tasks for SG2 were to continue tracing and identifying the RF environment provide additional descriptions and information on the RFI sources.

Dave Redman provided an SG5 update. Scope of SG5 activity is to define RFI tolerance for future rad alt solutions. He indicated that recent activity centered around comments resolution of DO-399 that has displaced the regular SG5 meetings. However, Preliminary discussions for future work to define RFI tolerance reqs were held during the SG5 working session and also included initial identification of potential testability issues with RFI tolerance curve. The SG5 plan is to get back to the regular meeting schedule and work towards developing the ITM curve and test reqs.

### **5. Review of Schedule and Scope for MOPS development**

Jean luc indicated that the SC-239 leads (along with working group chairs) are in the process of finalizing an updated detailed integrated master schedule for the MOPS development. The schedule is expected to be brought to the committee to seek approval at the plenary session in May. It was unknown if the updated schedule will require the committee to seek an update to the date in the Terms of Reference.

### **Agenda Item 6: Future Meetings**

Dates for the next two SC-239 meetings were identified:

1. May 8-12 - Paris,
2. Sep 18-22 - DC.

Plenary times during these two weeks were yet to be identified.

**Agenda item 7: Other Business**

DO-399/ED-310 status discussions ensued. It was indicated that the Comments resolution process was on going and that the group leads will send a Calling Notice and the document with comments implemented along with the comment resolution spreadsheet no less than 2 weeks before the next virtual only plenary session. Plan was for the plenary will consider a motion to release to the PMC with an out of cycle decision.

**Agenda item 8: Action Items:**

None were identified at this time and the meeting was adjourned.