



EUROCAE Paper No EUR 325-21 / WG79-86  
 RTCA Paper No. 227-21 / SC213-135

October 26-28, 2021

**Minutes of Meeting**  
**EUROCAE WG-79 #42 meeting/ RTCA SC-213 Joint Plenary #48**  
**Enhanced Vision Systems (EVS) and Synthetic Vision Systems (SVS)**

<b>Date</b>	<i>October 26-28, 2021</i>
<b>Place</b>	<i>Virtual</i>
<b>Venue</b>	<i>Virtual</i>
<b>Host</b>	<b>RTCA</b>
<b>Contact Persons</b> <b>EUROCAE</b> <b>RTCA</b>	<i>Sergiu Marzac</i> <a href="mailto:sergiu.marzac@eurocae.net">sergiu.marzac@eurocae.net</a> <i>Phone: +33 1 49 46 19 73</i> <i>and</i> <i>Rebecca Morrison</i> <a href="mailto:rmorrison@rtca.org">rmorrison@rtca.org</a> <i>+1 202-330-0654</i>

**Attendance:** Please see attached PDF document for complete attendance list.

**Points of contact:**

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## Agenda

Tuesday October 26, 2021, 9am-12pm

1. Initial Plenary Session
2. EUROCAE/RTCA Policies
3. Review and approve minutes from April 2021 and May 2021 Plenaries
4. FAA Updates
5. Working Group Discussions (WG-4)

Wednesday October 27, 2021, 9am-12pm (EDT)

1. Continue working group discussions (WG-2 and WG-1)

Thursday October 28, 2021, 9am – 12pm (EDT)

1. Continue work group discussions (WG-4, WG-1 and WG-2)
2. Resume Plenary Session
3. Industry Presentations (as time permits)
4. Review of TOR and plans for future meetings including approval to update TOR
5. Other business
6. Adjourn

## Welcome and Introduction

Rebecca Morrison (RTCA) reviewed the RTCA anti-trust, proprietary and membership policies. Sergiu Marzac (EUROCAE) commented that the EUROCAE intellectual policies (IPR) are the same as RTCA's. Members with any questions were advised to contact the WG leadership.

There were over 25 participants on the call at the start of the meeting.

The May 2021 meeting minutes were not available and will be reviewed and approved at a later time.

## FAA Updates

Trent Prange (FAA) provided an update on AC 20-167B. The FAA is resolving the approximate 130 comments that they received, most of which were editorial in nature. Any comments on language directly out of previously published in RTCA/EUROCAE documents, as a consensus documents, will remain unchanged.

There was discussion on how to potentially address the Unmanned Aerial Systems/ Urban Air Mobility markets. Rebecca Morrison suggested opening a workshop to discuss how to address the application to vision system applications in this emerging market and create a larger strategy. Patrick Krohn (Universal) suggested approaching the PMC on the go-forward plan on addressing this market. Scott McLellan (FAA) provided insights to AFS-400 support of future operations involving UAS/UAM.

## EASA

Operations part for EFVS published next year after which EFVS to landing option will be allowed.

## WG4

Carlo Tiana (Collins) and Trish Ververs (Honeywell) provided an overview of the current CVS MASPS for Helicopters. Cliff provided an overview of the additional regulatory documents that will be added to the document.

## WG1

Thea Feyereisen (Honeywell) reviewed the current draft MASPS for SVS, EVS, CVS. Edits were made during the discussion to the draft document.

## WG2

Randy Bailey (NASA LaRC), WG2 chair, was unable to attend. Trent Prange discussed AC 20-167B comments and their relation to draft standards. Comments included a desired relief from the image latency of a suggested less than 100 ms (should guidance). No final decision made. There was discussion around definition of the landing zone recommendation of first 3000 ft or 1/3 of the runway. There are multiple sources, including previous airmen certification standards, and newer ATP testing criteria with more restrictive criteria.

## Next Meeting

The next plenary is planned for Europe. Due to the holiday schedule and EUROCAE symposium (week of April 25), the week of May 17-19, 2022 at EUROCAE in Saint-Denis Paris, was selected for the plenary. If an alternative European corporation would like to host, please contact Sergiu Marzac or Rebecca Morrison.

## Actions Items

1. Patrick Krohn (Universal) will query PMC about SC-213 involvement with UAM/UAS and single pilot for large transport aircraft guidance.
2. Patrick Krohn to work with WG chairs and Trent Prange to revise TOR dates for December PMC discussion.
3. Rebecca to open a ballot to approve the May 2021 minutes.

## Attendance

Name	Organization
ASTRUC, Joel	Airbus
Benoit Saulnier - TCCA	TCCA
Bryan Lesko (ALPA)	Alpa
Bryan Watson	FAA
Carlo TIANA (Collins)	Collins Aerospace
Charles C Johnson	FAA
Christopher MISIAK (EASA)	EASA
Daniel / Collins	Collins Aerospace
Daniela Kratchounova	FAA
Ed Grabman	Bonbarrier Discover Technology
Glenn Connor	Technology
Jason Crain	FAA
John Waddle	Astronautics
Kelene Fercho (FAA CAMI)	FAA

Larry Pine	Boeing
Mark Humphreys	Precision
Mark Schlegel	Approaches
Mikaela Lokatt - Saab	Textron
Mike Melssen	SAAB
Ole Jacobsen	FAA
Patrick Krohn	SAAB
Paul Kenward	Universal
Paul Damschen	Lockheed Martin
Peter Neumeier	Universal
Philippe Salmon	Lockheed Martin
Pierre Yves DUMAS	Collins Aerospace
Randy Bailey	Thales
Rebecca Morrison	NASA
Scott McLellan	RTCA
Sean Flack	FAA
Sergiu MARZAC	SAIC
Sherwin Chen	EUROCAE
Steve Knoblock	Boeing
Thea Feyereisen	Lockheed Martin
Trent Prange	Honeywell
Trish Ververs	FAA
Troy Niles	Honeywell
Tyler Travis	Universal
Vincenzo Pennetta	FAA
	EASA

Patrick Krohn made a motion to adjourn, and the motion was seconded. The meeting ended at 9:34 pm EDT.