

**Minutes of 38<sup>th</sup> RTCA Special Committee 227 Meeting**  
**Joint with EUROCAE WG-85 4D Navigation Performance, 35<sup>th</sup> Meeting**  
**2024, January 29 – February 2**  
**Hybrid: Virtual and in-person**  
**Monday - Friday: RTCA**  
**1150 18th Street NW, Suite 900**  
**Washington, DC 20036**

**AGENDA**

**Beginning Monday, January 29, 2024, 9 AM (Local Time) – Plenary Session**

1. Welcome and Administrative Remarks, review of RTCA/EUROCAE Policies
2. Introductions
3. Review and Approve November 2023 Meeting Minutes
4. Review the comments received in Open Consultation/Final Review and Comment and disposition for DO-283C/ED-323 and DO-236E/DO-75F

**Tuesday, January 30, 2024, 9 AM to 4 PM (Local Time) – Working Sessions**

1. SC-227 WG-1 and WG-2: Discuss any unresolved comments to OC/FRAC on DO-283C/ED-323 and DO-236E/DO-75F
2. SC-227 WG-3 Review of Change Proposals

**Wednesday, January 31, 2024, 9 AM to 4 PM (Local Time) – Working Sessions**

1. SC-227 WG-1 and WG-2: Discuss any unresolved comments to OC/FRAC on DO-283C/ED-323 and DO-236E/DO-75F
2. SC-227 WG-3 Review of Change Proposals

## **Thursday, February 1, 2024, 9 AM to 4 PM (Local Time) – Working Sessions &**

### **Plenary**

1. SC-227 WG-1 and WG-2: Discuss any unresolved comments to OC/FRAC on DO-283C/ED-323 and DO-236E/DO-75F
2. SC-227 WG-3 Review of Change Proposals

## **Friday, February 2, 2024, 9 AM to 1 PM (Local Time) - Plenary**

1. Review Plenary Dates and locations for 2024 and 1<sup>st</sup> Quarter 2025
2. Review Action Items
3. WG-2
  - a. Disposition any remaining comments to DO-238C/ED-323, as discussed in the working group meetings.
  - b. Meeting Report
  - c. Review comment resolutions
  - d. Consider a motion to initiate a second OC/FRAC on DO-283C/ED-323
4. WG-1
  - a. Disposition any remaining comments to DO-236E/ED-75F, as discussed in the working group meetings.
  - b. Meeting Report
  - c. Review comment resolutions
  - d. Consider a motion to initiate a second OC/FRAC on DO-236E/DO-75F
5. New Business
6. Adjourn

### **ATTENDEES**

Chairpersons:

- EUROCAE WG-85 Okuary Osechas, Zurich University of Applied Sciences (ZHAW)
- RTCA SC-227 Ellen McGaughey, Collins Aerospace

EUROCAE WG-85 TPM: Mark Watson

RTCA Program Director: Rebecca Morrison

RTCA GAR: Barry Miller, FAA

Acting Secretary: None

### **Others attending (Name, Company)**

Aaron Jacobson, Boeing

Andrew Riedel, Boeing Jeppesen

Anna Guegan, EUROCAE  
Atsushi Kezuka, ENRI  
Benoit Legault, CMC  
Bill Tuccio, Garmin  
Bob Gaul, Garmin  
Bradford Miller, FAA  
Brandon Weaver, DLR  
Collin Ogden, Collins Aerospace  
Dale Courtney, FAA  
Daniel Nelson, NATS  
Dave Nakamura, Advanced PBN Solutions  
Drew McLean, Southwest Airlines  
Drew Watkins, Allied Pilots  
Erik Ringnes, Honeywell  
Fernando Díaz, ENAIRE  
Ferraro Davide, Leonardo Company  
Gang Feng, Boeing  
Guy Deker Thales  
Jeff Meyers, FAA  
Jeff Rawdon, FAA AFS-420  
Joel Dickinson, FAAFlight Standards  
John Barry, FAA Aircraft Cert  
John Romine, Collins Aerospace  
Kendal Hershberger, Garmin  
Kendal Hershberger, Garmin  
Kurt Stiefel, FAA AFS-400  
Michael Straw, Lufthansa Lido  
Mitch Meldrum, Honeywell  
Monica Vafiades, USAF  
Nat Beeten, USAF  
Nick Tallman, FAA  
Phillip Pankratz, Textron Aviation  
Reuss Anderson, Garmin  
Stephen Moody, Boeing Jeppesen  
Steve Horvath, Garmin

Stuart Bowman, MITRE

Tim Geels, Collins Aerospace

Tom Yochum, Boeing

Toyohachi Yokota, JRANSA

Trent Prange, FAA

Valeriu Vitan, EUROCONTROL

Wes Gooze, American Airlines

## **MINUTES**

### **Monday, January 29, 2024 - Plenary**

- Preamble: At 9am the meeting opened with introductions, and overviews of policies and planned work for the week. Participation was in person and virtual via WebEx.
- Minutes: The SC-227 Plenary #37 Minutes from the November 2023 meeting in Brussels, Belgium were reviewed and accepted.
- Overview of agenda:
  - For SC-186/WG-51 to brief the status the FAA's Concept of Operations for Flight Interval Management.
  - To disposition Review and Comments (FRAC) of all proposed updates to DO-283C, 385 total comments.
  - To disposition FRAC of all proposed updates to DO-236E, 161 total comments.
  - To reach consensus on WG-3's proposed changes to DO-257C, and
  - To reach consensus on proposed TOR change that DO-257C should have a new title and DO-number and revised date to complete the RNP MASP and MOPS. To approve TOR change that DO-236E and DO-283C will not be ready until November 2024.
- FIM and TOAC report: The FAA's ConOps is ready, and the FAA will brief RTCA SC-227/EUROCAE WG-85 at a future SC-227 meeting.
- WG#3 presentations:
  - CP 10076 – Profile View accepted with separate actions created to revisit ownership, terrain and temperature compensation.

- CP 10102 – DDC MOPS Title Name change paper approved the title to be, ““Minimum Operational Performance Standards for Depiction of Navigational Information on Electronic Map Displays and for Electronic Aeronautical Chart Displays”
- CP 10107 - Standard Symbology Set, V1.3 discussed but not approved.
- CP 10034 “Declutter” – Discussed but not approved.
- WG#2 draft DO-283C: WG#2 resumed resolving items submitted in the Formal Review and Comment (FRAC) that were deemed High and Medium.
- Monday’s Plenary concluded.

**Tuesday, January 30, 2024 – Working Sessions**

- WG#1 and WG#2: Continued resolving FRAC comments.
- WG#3: Continued developing Change Proposals and addressing Action Items.

**Wednesday, January 31, 2024 – Working Sessions**

- WG#1 and WG#2: Continued resolving FRAC comments.
- WG#3: Continued developing Change Proposals and addressing Action Items.

**Thursday, February 1, 2024 – Working Sessions**

- WG#1 and WG#2: Continued resolving FRAC comments.
- WG#3: Continued developing Change Proposals and addressing Action Items.

**Friday, February 2024 - Plenary**

- At 9am Plenary resumed.
- Next meetings
  - May 6-10, 2024, in Denver
  - 2024, August 19-23, 2024, location TBD
  - 2024, Nov. 18-22, location TBD
  - Propose 2025, Feb 3-7, location TBD

- Action Items: None except going forward to start tracking “parking lot” items to consider if there is a subsequent update.
- TOR revision: Proposals were accepted to revise the TOR
  - To extend the dates to complete DO-238C/DO-236E to November 2024
  - Instead of adding DDC in DO-257C, to create a new DO- with a new title indicating the added scope, “Minimum Operational Performance Standards for Depiction of Navigational Information on Electronic Map Displays and for Electronic Aeronautical Chart Displays.”
- WG#2 (draft DO-283C) and WG #1 (draft DO-236E)
  - FIM Concept of Operations: The FAA’s ConOps is ready, and the FAA will brief RTCA SC-227/EUROCAE WG-85 at a future meeting.
  - DO-238C FRAC: The remaining FRAC High, Medium and Low comments were dispositioned except for one that resulted in a new appendix. To finish the new appendix will be resumed when the author returns from personal leave (March 2024).
  - DO-236E FRAC: The remaining High, Medium and Low comments were dispositioned except for one to no longer use the term “RNP RNAV” except in the document title. Removing “RNP RNAV” impacts use of “RNP”, for which a member will further develop the detailed resolution (which might impact the MOPS).
  - DO-238C/DO-236E FRAC next steps: FRAC will not be closed until the two remaining comments are resolved and all comments are satisfactorily incorporated into the draft master documents.
- WG#3 (DO-ZZT)
  - EUROCAE currently has no interest in making on DDC at joint document.
  - CP 10117 – Independent Database was presented but not accepted.
  - CP 10034 – Decluttering was discussed further and accepted with new follow-on actions.
- New Business: None.
- Plenary concluded.

**Webex/Meeting Adjourned**