

**MEETING MINUTES OF THE THIRTY-EIGHTH MEETING
JOINT RTCA SPECIAL COMMITTEE 217
EUROCAE WORKING GROUP 44**

21st through 25th of March 2022, Washington, DC, USA - Hosted by RTCA

Executive Summary

RTCA SC-217 met jointly with EUROCAE WG-44 in Washington, DC, USA, from the 21st to the 25th March 2022. The main objective of the meeting was to complete the Final Review and Comment (FRAC)/Open Consultation (OC) resolution of the final draft EUROCAE ED-302/RTCA DO-394 “Considerations for Aeronautical Data Alteration” document and to approve the outcome of the resolution for submission of the document to RTCA/EUROCAE for publication.

The Plenary Session took place as hybrid meeting - face-to-face meeting at RTCA in Washington, DC with WebEx facility for members who participated remotely.

During the Opening Plenary, the group addressed organizational items, approved the minutes from the 37th meeting and the agenda for the 38th meeting. Brian Gilbert summarized the work done by the Editorial Team during the working sessions on the 14th, 15th, and 17th of March 2022 via WebEx. A total of 245 comments were received on the final draft “Considerations for Aeronautical Data Alteration” document: 20 High, 55 Medium, 53 Low, and 117 Editorial. There were no Non-concur comments.

At the dedicated working sessions prior to the plenary meeting, the Editorial Team had reviewed the comments received and had prepared resolutions off-line to some of them, identified duplicate comments, and flagged the remaining 159 comments that needed to be resolved during the plenary meeting.

In Plenary Session, the group completed the review of the comments and agreed on the resolutions: 107 comments were accepted, 102 comments were modified (approved, but different from the commenter’s proposed resolution), and 36 were rejected.

The group approved the FRAC/OC resolution and the submission to RTCA PMC/EUROCAE Council for publication approval.

The group discussed the content and the work plan for the DO-200B/ED-76A revisions. The plenary identified the items/tasks and agreed to structure the work around themes, which were then grouped into prioritized batches. Dedicated subgroups were formed associated with each theme that will be worked in the first batch.

Stéphane Dubet provided an update on the work being conducted by EUROCAE WG-105 UAS, in particular SG-3 UAS Traffic Management (UTM), focusing on the new task to produce a Technical Specification for Geographical Zones and U-Space data provision and exchange, highlighting the fact that it is intended to cover all aspects related to Data Provision and Exchange (i.e. data scope, quality requirements, data format and model, and exchange of data through information service) in support of regulations (EU) 2019/947 and (EU) 2021/664.

Regarding the next meetings, the group decided to hold two more plenary meetings in 2022, one in Europe and one in the USA. The dates and locations of those were agreed as follows:

- 39th Plenary: 27 June through 1 July 2022, hosted by EUROCONTROL in Brussels, Belgium
- 40th Plenary: 29 November – 2 December 2022, hosted by Honeywell International, Inc. in Phoenix, Arizona, USA

Both meetings are foreseen as in-person meetings with the possibility to join remotely via WebEx. In addition, two monthly 2-hour progress meetings via WebEx were agreed and scheduled to take place prior to the June plenary - on April 19 and May 17, 2022.

1 Welcome, Introductions, and review of the RTCA/EUROCAE Policies

The Plenary Session took place on the 21st through the 25th of March 2022 as a hybrid meeting - face-to-face meeting at RTCA in Washington, DC, USA with WebEx facility for members who connected remotely. The main objective of the meeting was to complete the Final Review and Comment (FRAC)/Open Consultation (OC) resolution of the final draft EUROCAE ED-302/RTCA DO-394 “Considerations for Aeronautical Data Alteration” document and to approve the outcome of the resolution for submission of the document to RTCA/EUROCAE for publication.

The meeting was opened by Brian Gilbert (RTCA SC-217 co-chair), who introduced the agenda for the meeting.

Attendees introduced themselves.

Attendance List

Name	Company/Organization
Aleksander Wojtowicz	EUROCONTROL
Alexandre Petrovsky	EUROCONTROL
Begona Martin Velayos	European Aviation Safety Agency (EASA)
Bradford Miller	Federal Aviation Administration (FAA)
Brian Gilbert	The Boeing Company
Caroline Biarnes	Thales Group
Christian Pschierer	Jeppesen
Collin Ogden	Collins Aerospace
Daniel Orellana	DGAC Chile
David Atkinson	National Geospatial-Intelligence Agency
David Baker	The MITRE Corporation
Eustis Gosselin	Jacobs Technology
Erik Ringnes	Honeywell International, Inc.
Frank Wigold	Lufthansa
Gary Bobik	Federal Aviation Administration (FAA)
Greg Fisher	Universal Avionics Systems Corp.
Jan-Philipp Lauer	DFS
Jeff Meyers	Federal Aviation Administration (FAA)
Jeff Plantinga	GE Aviation
Joe McGrath	Jacobs Technology
John Maurer	The MITRE Corporation
Kevin Carey	U.S. Air Force
Kim Jordan	Universal Avionics Systems Corp.
Kyle Phillips	The Boeing Company
Laurent Pomiès	DOSOFT Consulting (EUROCAE)
Lucille Revertegat	Airbus Helicopters
Max Gornish	Garmin Ltd.

Name	Company/Organization
Michael Sauter	Lufthansa
Patrick Benson	DCS Consulting (US Navy)
Rebecca Morrison	RTCA, Inc.
Reuss Anderson	Garmin Ltd.
Richard Timms	National Geospatial-Intelligence Agency
Rob Keller	Jacobs Technology
Romuald Salgues	Airbus Helicopters
Sam Blackwell	Jacobs Technology
Sasho Neshevski	EUROCONTROL
Scott Roesch	Honeywell International, Inc.
Sergiu Marzac	EUROCAE
Stéphane Dubet	DGAC/DSNA
Stephen Moody	Jeppesen
Sylvain Le Gac	Airbus Commercial Aircraft
Thomas Ciolino	U.S. Air Force

Rebecca Morrison and Sergiu Marzac presented the RTCA membership policy, RTCA Anti-Trust Policy, the RTCA Proprietary Information Policy, the EUROCAE IPR Policy Call, and the EUROCAE membership policy with regard to participation in EUROCAE Working Groups, and the General Data Protection Regulation (GDPR) and Privacy policy.

2 Review and Approve minutes from the 37th Joint Plenary (January 2022)

Sasho Neshevski reported on the status of the draft meeting minutes of the 37th Joint Plenary. The draft meeting minutes had been uploaded on AerOpus on February 3, 2022. No comments had been received to the draft meetings. No comments were raised during the meeting. The group approved the minutes from the 37th Joint Plenary.

3 Review and disposition all comments received in OC/FRAC on DO-394/ED-302 Considerations for Aeronautical Data Alteration

Brian Gilbert summarized the work done by the Editorial Team during the working sessions on the 14th, 15th, and 17th of March 2022. A total of 245 comments were received: 20 High, 55 Medium, 53 Low, and 117 Editorial. There were no Non-concur comments. The Editorial Team had prepared resolutions for many of the Editorial comments off-line, identified duplicate comments, and flagged the remaining 159 comments that needed to be discussed and resolved during the plenary meeting.

All remaining FRAC/OC comments were reviewed and resolved: 107 comments were accepted, 102 comments were modified (approved, but different from the commenter’s proposed resolution), and 36 were rejected.

Rick Timms completed the spreadsheet status and resolution columns. In parallel, the necessary modifications to the draft document were agreed and documented live with mark-up changes in the master draft document. The agreed modifications to the Figures were incorporated at the end of the plenary meeting.

Some originators of comments joined the meeting virtually during times scheduled for the resolution of their comments. This was the case for the comments provided by Airbus, Thales, DFS, EASA, and EUROCONTROL.

4 Motion to send ED-302/DO-394 to the PMC/Council for publication approval

As the procedure requires a motion - a formal proposal by a member that the action is taken – David Atkinson put forward a motion to submit ED-302/DO-394 to EUROCAE and RTCA for publication approval. Steve Moody seconded the proposal. The motion was carried unanimously; therefore, the group approved the FRAC/OC resolution and the submission to RTCA PMC/EUROCAE Council for publication approval. The target will be to submit the document for approval for the PMC meeting on June 23, 2022. EUROCAE Council approval is foreseen to be achieved in parallel, typically done by correspondence procedure. On the next day, June 24, 2022, the document should be available for purchase on the RTCA on-line store.

Brian Gilbert expressed big thanks to Rick Timms for his excellent job as Document Editor.

5 Proposals related to revisions to DO-200B/ED-76A

Two dedicated working sessions had taken place – one on February 22, 2022 to conduct scoping of DO-200B/ED-76A revisions, and a second one, on March 2, 2022, to discuss Data Process Assurance Level (DPAL) granularity. During these sessions, 14 items had been reviewed and agreed to be addressed during the revision work.

The plenary discussed and further elaborated on the envisaged items/tasks and agreed to structure the work around themes. The themes were prioritized and grouped into batches for resource loading and schedule planning purposes, as follows. Dedicated subgroups were formed associated with each theme that will be worked in the near term.

Batch 1 – target completion December 2022

1. DPAL

- Levels - already a mature draft prepared and ready to review
- Verification and Validation (V&V) expectations/minimum requirements

Participants

Reuss Anderson - Lead (DPAL granularity)

Laurent Pomiès - Lead (V&V)

Jeff Plantinga, Jeff Meyers, David Atkinson, Stephen Moody, David Baker, Frank Wigold, Brad Miller, Max Gornish, Eustis Gosselin

2. Quality Management

- References to ISO9001- type quality management techniques, but 2.5(1) seems to be incompatible with that
- DO-200B does not go in adequate details regarding what Quality Management has to look like and what it must accomplish.
- *Review* related requirements should be moved to Section 2.5. In Section 2.5.3, concept of *Reviews* are significantly more onerous than the value they provide; should these be pared back?

Participants

Richard Timms, David Baker - Lead

Kevin Carey, Brad Miller, Jeff Meyers, Reuss Anderson

3. Change Management

- Section 3.3 states that major changes trigger audits. This may be deemed disproportional. EASA has been using the concept of "Change Management" since 2018. Alignment may be necessary.

Participants

Frank Wigold - Lead
Begona Martin Velayos, Brad Miller, Jeff Meyers

Batch 2 – target completion July 2023

4. Tool Qualification

- DO-330 Tool Qualification issues
- Appendix D.2 gives the impression that those DO-330 activities are mandated
- Appendix D, Table D-1

Participants

David Atkinson - Lead
Laurent Pomiès, Reuss Anderson, Jeff Plantinga, David Baker, Eustis Gosselin, Kevin Carey

5. Data processing

- Section 2.4.1(5) is confusing (confirming that locally originated data has not been corrupted prior to being stored); this is not testable
- Sections 2.4.1(1 & 10) are not clear; what is the difference between “means” and “methods”? Are 1 and 10 duplicates?
- Section 2.4.1(11.b) – it is not clear what kind of method is expected (release statements?), use of "user" terminology; could be redundant with Section 2.4.1(6.b). Are these the only places that discuss the need to comply with quality standards?

6. Error reporting

- Clarify statement about user of data informing their supplier of perceived errors (lots of cases where user and supplier don't have that kind of relationship, like terrain)

Batch 3 – target completion December 2023

7. Data quality requirements guidance

- What is the value of Appendix B.2? No need to separate it from B.1

8. Authorized deviations

- Should Section 2.5.2 address the concept of "authorized deviations"?

9. Batch 4 – target completion December 2023 Alteration/origination

- Fold DO-394 into DO-200C?
- Revisit Sections 2.3, 2.4.2, other sections in light of the Data Alteration document

Batch 5 – target completion December 2023

10. Document mechanics/organization

- Apply Requirements numbering (like user requirements documents)?
- Review the use of “shall” vs. “should”; investigate current statements that use "need", "must", etc.

11. Terminology/consistency

- Replace "data supplier" with "data processor" (limited in scope to those terms, can add new action items if other terminology tweaks/harmonization topics arise)

Participants

Reuss Anderson – Lead

12. WG-114 Artificial Intelligence in Aviation needs

- Coordinate with WG-2 and WG-3
- Statement of Concerns, roadmap available for review

Participants

Laurent Pomiès - Lead

For the next plenary meeting, the following work plan was agreed:

- Monday and Tuesday: DPAL
- Wednesday: Quality Management
- Thursday: Change Management
- Friday: Plenary/AOB

It was agreed that RTCA and EUROCAE would launch a Call for Participation to give members the opportunity to nominate appropriate experts for the work.

6 Coordination with EUROCAE WG-105

Stéphane Dubet provided an update on the work being conducted by EUROCAE WG-105 UAS, in particular SG-3 UAS Traffic Management (UTM). The presentation included an update on the regulatory context – Implementing Regulation (EU) 219/947 and Implementing Regulation (EU) 2021/664.

In response to the request received by SG-3 to address data for UTM, a new Task Sheet has been prepared and submitted to TAC for approval. The task involves the production of a new standard (Technical Specification): Minimum Operational Performance Standard for Aeronautical Data Provision and Exchange.

WG-105 has already defined a data model as part of ED-269 - Minimum Operational Performance Standard for UAS Geo-Fencing. It is considered a very good foundation.

The new Technical Specification for Geographical Zones and U-Space data provision and exchange will cover all aspects related to Data Provision and Exchange (i.e. data scope, quality requirements, data format and model, exchange of data through information service) in support of regulations (EU) 2019/947 and (EU) 2021/664.

In conclusion, Stéphane Dubet offered to provide progress report to the group at the next plenary meeting.

7 Review of action items

There is one action item remaining open: Action Item Id 10009: Prepare a Working Paper (WP) on DPAL. The WP has been prepared, but needs to be reviewed in detail by the group. It was agreed to create new action items related to the DO-200B/ED-76A revisions themes (Section 5 above).

8 Dates of next meetings

It was decided to hold two more plenary meeting in 2022, one in Europe and one in the USA. The dates and locations of those were agreed as follows:

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Both meetings are foreseen as in-person meetings with the possibility to join remotely via WebEx.

Two monthly 2-hour progress meetings via WebEx were agreed and scheduled to take place prior to the June Plenary - on April 19 and May 17, 2022.

9 Adjourn

Brian Gilbert thanked all members for the participation, in particular RTCA for hosting of the meeting, and closed the plenary meeting.

Certified as a true and accurate summary of the meeting:



Sasho Neshevski
Secretary, RTCA SC-217, EUROCAE WG-44



Brian Gilbert
Chairman, RTCA SC-217



Stéphane Dubet
Chairman, EUROCAE WG-44