

RTCA Paper No. 077-20/SC186-375
EUROCAE No. 090-20/WG51-196

March 20, 2020

SEVENTY-SIXTH MEETING

of RTCA SC-186

held jointly with EUROCAE WG-51

AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST (ADS-B)

DATE: March 20, 2020
TIME: 12:00 p.m. – 2:00 p.m. (EDT)
PLACE: Phoenix, AZ + Virtual

The attendees included:

SC-186 Co-Chairmen

Rocky Stone United Airlines, Inc.
Jessie Turner Boeing

SC-186 Secretary

Michael Garcia Aireon

SC-186 Government Authorized Representative

Matt Haskin FAA

EUROCAE WG-51, SG-3

Bogdan Petricel Chair
Nico de Gelder Secretary

EUROCAE WG-51, SG-1

Jorg Steinleitner Chair

Members (Present in the room and on the Teleconference/WebEx) [MG1]

Name	Organization	Name	Organization
Arbuckle, Doug	Federal Aviation Administration (FAA)	Lovelace, Dan	Regulus Group
Baker, Charles	Federal Aviation Administration (FAA)	Macoomb, Ian	NAV CANADA
Berckefeldt, Richard	Honeywell International, Inc.	Mark, Eltzafan	Federal Aviation Administration (FAA)
Bone, Randy	The MITRE Corporation	Nesemeier, Gregg	Federal Aviation Administration (FAA)
Bowman, Stuart	The MITRE Corporation	Nguyen, Lee	Federal Aviation Administration (FAA)
Brooks, Kimberly	Federal Aviation Administration (FAA)	Orell, Greg	MITRE
Comstock, Greg	StratMach	Pagano, Thomas	Regulus Group
Darr, Stephen	Dynamic Aerospace, Inc.	Perez, Brenda	Regulus Group
Daskalakis, Anastasios	Aurora Innovations	Secen, Al	RTCA, Inc.
Duke, Jim	Air Line Pilots Association (ALPA)	Shafaat, Taji	The Boeing Company
Field, Jack	The MITRE Corporation	Skoog, Todd	Garmin Ltd.
Garcia, Michael	Aireon, LLC	Sparrow, Jeffrey	Aurora Innovations
Gaul, Bob	Garmin Ltd.	Stassen, Hans	The MITRE Corporation
Godoy, Jose	ARINC Incorporated	Steiner, Timothy	Federal Aviation Administration (FAA)
Gray, David	Federal Aviation Administration (FAA)	Steinleitner, Jorg	EUROCONTROL
Gray, Martin	Trig Avionics Limited	Stone, Rocky	United Airlines, Inc.
Hahn, Edward	Air Line Pilots Association (ALPA)	Stoops, Wes	Regulus Group
Jacobson, Randy	Rockwell Collins, Inc.	Townsend, Brian	American Airlines, Inc.
Jain, Ravi	Federal Aviation Administration (FAA)	Turner, Jessie	The Boeing Company
Kenney, Larry	Raytheon	Von Hoene, Paul	Federal Aviation Administration (FAA)
Littleford, Daniel	Federal Aviation Administration (FAA)	Walker, Don	Honeywell
		Weitz, Lesley	The MITRE Corporation

**** Note: All files named in conjunction with Agenda items can be downloaded from the RTCA SC-186 Workspace at <http://workspace.rtca.org/kws> ****

1. Chairman's Introductory Remarks.

- Rocky convened the March 20, 2020 meeting by welcoming all in attendance. Participants were identified based on the WebEx participant list and the RTCA VP and EUROCAE ASTERIX manager read several standard policy statements (02_RTCA_RTCA_EUROCAE_Welcome_Meeting_KickOff_Slides.pdf)
- Alex Engel noted that the EUROCAE Symposium in April has been cancelled and an alternative date is being evaluated.

2. Review of Meeting Agenda.

- Rocky reviewed the agenda and noted that it is posted to the RTCA workspace.
- Al noted that this is a joint plenary between RTCA SC-186 and EUROCAE WG-51

3. Review/Approval of the 75th Meeting Summary
 - The minutes from the January 31st 2020 plenary (#75) were recently posted to the RTCA website
 - The minutes were approved

4. Closing of the Open Consultation (OC)/Final Review and Comment (FRAC) and Committee Approval of Draft DO-317C/ED-194B, “Minimum Operational Performance Standards (MOPS) for Aircraft Surveillance Applications (ASA) System”
 - A presentation on this topic “SC-186 WG-4 Plenary Presentation Slides.pdf” was presented by Lesley Weitz
 - Lesley noted that Don Walker will no longer be able to support the WG4 and other standards activities due to a job change
 - WG-4 is not currently seeking a co-chair since the work is nearly completed
 - The breakdown of comments was presented, noting one Non-Concur related to displaying the traffic category on the CDTI
 - Consensus was not reached during the WG4 meeting on this non-concur. The FAA will provide their position on removing requirement 3198 at a teleconference scheduled on 4/17 to resolve the comment with the commenter
 - Significant Updates to the ASA MOPS include: Updates to CAVS, additional updates for consistency with DO-260C, data validity times, etc.
 - WG-4 requested approval of DO-317C/ED-194 for submission to RTCA/EUROCAE by May 15 and to the PMC by May 26
 - Al and Alex clarified that approval given by the joint plenary would be **conditional** upon satisfactory resolution of the non-concur during the 4/17 telecon as well as the completion of the other noted actions
 - Rocky made a motion requesting approval from the joint plenary
 - Motion was seconded
 - No objections recorded
 - **DO-317C/ED-194B has been conditionally approved to move forward to the PMC as noted above.**
 - FIM MOPS Change 1 scope to be reviewed on April 17 teleconference
 - FRAC/OC period scheduled May 1 – June 15
 - FRAC/OC resolution meeting June 29

- Opening of the Open Consultation (OC)/Final Review and Comment (FRAC) of Draft DO-260C/ED-102B, “Minimum Operational Performance Standards for 1090 MHz Extended Squitter Automatic Dependent Surveillance – Broadcast (ADS-B) and Traffic Information Services – Broadcast (TIS-B)”
 - A presentation on this topic “SC186 WG3 Status Brief - Plenary 77.pptx” was given by Tom Pagano

- Tom reviewed the high level schedule of CSC meetings along with the most recent and upcoming
- Interim Review and Comment was completed 10/31 – 12/15/2019
- FRAC planned from 3/24 to 5/10/2020
 - Online distribution of drafts and comment matrices
 - Plenary approval for final MOPS June 19, 2020
 - Delivery of MOPS to RTCA August 2020
 - Presentation to PMC September 2020
 - Publication December 2020
- Key features in the updated MOPS were reviewed
- Open Issues Include
 - Decision pending on whether ADS-B Weather is required or optional for version 3
 - Rocky noted that TSO decisions on required vs. optional will be independent of the MOPS language
 - Although PIREP material is currently in an Appendix, it is intended to be incorporated into the relevant sections of the MOPS post-FRAC. Some notifications/guidance around this to be distributed along with the FRAC/OC call.
 - Schedule may need to slip if the June meeting cannot be held (Contingency schedule is a 3 month delay). Lesley asked if virtual meetings are being considered, which the leadership has said is not preferred to face-to-face.
- CSC seeks approval to enter FRAC for DO-260C/ED-102B 1090ES MOPS
 - It was noted that SC-209/WG-49 approved DO-181F/ED-73F for FRAC/OC this morning
 - Rocky made a motion requesting approval to enter FRAC and Open Consultation for DO-260C/ED-102B
 - Motion was seconded
 - No objections recorded
 - **DO-260C/ED-102B has been approved to enter FRAC/OC**
- Al Secen reviewed the comment spreadsheet and process during the meeting
- Other Business.
 - Alex Engel asked committee members to only submit comments to RTCA or EUROCAE (not both)
- Date, Place and Time of Next Meeting.
 - Virtual Plenary session (77) to open FRAC/OC for DO-361A/ED-236A Change 1 on May 1, 2020
 - Face-to-face plenary (78, joint with SC-209/WG-49) to close FRAC/OC and approve DO-260C, location Cologne, Germany, on June 18, 2020 [concurrent with June 15-19 CSC meeting]
 - Face-to-Face is Pending a decision on May 4th (may become virtual or postponed)

- Virtual Plenary session (79) to close FRAC/OC and approve DO-361A/ED-236A Change 1 on June 30, 2020
- New Business
 - None
- Review Action Items/Work Programs.
 - Remaining Action Items from previous plenaries:
 - Target due date for the updated UAT MOPS (DO-282C) set to no earlier than August 2021 in the TOR (it is unlikely that WG5 would begin until after WG3 has completed FRAC). WG initiation action still remains open and the target date for completion of DO-282C may be adjusted once the working group initiates. Co-chairs will be needed to re-form the group.
- Adjourn Plenary.
 - Rocky thanked everyone for their participation and adjourned the meeting.