

RTCA Paper No. 018-20/SC186-373  
EUROCAE No. 030-20/WG51-195

January 31, 2020

**SEVENTY-FIFTH MEETING**

**of RTCA SC-186**

**held jointly with EUROCAE WG-51**

**AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST (ADS-B)**

**DATE:** January 31, 2020  
**TIME:** 9:00 a.m. – 10:00a.m. (EDT)  
**PLACE:** Melbourne, FL

The attendees included:

RTCA SC-186

<u>Rocky Stone</u>	<u>Co-chair</u>
<u>Jessie Turner</u>	<u>Co-chair</u>
<u>Matt Haskin</u>	<u>Government Authorized Representative (GAR)</u>
<u>Michael Garcia</u>	<u>Secretary</u>

EUROCAE WG-51 SG-3

<u>Bogdan Petricel</u>	<u>Chair</u>
<u>Nico de Gelder</u>	<u>Secretary</u>

EUROCAE WG-51 SG-1

<u>Jorg Steinleitner</u>	<u>Chair</u>
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Members (Present in the room and on the Teleconference/WebEx)

Name	Company
Arbuckle, Doug	Federal Aviation Administration (FAA)
Babcock, Ric	Allied Pilots Association
Bellman, Miles	Volpe National Transportation Systems Center
Berger, Jason	Harris Corporation
Bone, Randy	The MITRE Corporation
Comstock, Greg	StratMach
de Gelder, Nico	National Aerospace Laboratory NLR (EUROCAE)
Dutle, Aaron	NASA
Engel, Alexander	EUROCAE
Garcia, Michael	Aireon, LLC
Gaul, Bob	Garmin Ltd.
Gray, Martin	Trig Avionics Limited
Hahn, Edward	Air Line Pilots Association (ALPA)
Haskin, Matt	Federal Aviation Administration (FAA)
Hennig, Jens	General Aviation Manufacturers Association
Hochwarth, Joachim	GE Aviation
Jacobson, Randy	Collins Aerospace
Jones, Ken	NASA
Kenney, Larry	Raytheon
Kotula, Joseph	Federal Aviation Administration (FAA)
Macoomb, Ian	NAV CANADA
Mark, Eltzafan	Federal Aviation Administration (FAA)
Marques, Andre	Airbus
Nesemeier, Gregg	Federal Aviation Administration (FAA)
Nguyen, Lee	Federal Aviation Administration (FAA)
Pagano, Thomas	Regulus Group
Penhallegon, William	The MITRE Corporation
Perez, Brenda	Regulus Group
Pomrink, Bob	Regulus Group
Potier, Eric	EUROCONTROL
Priess, Stephanie	The MITRE Corporation
Puranik, Sumedh	Selex ES Inc.
Rodriguez, Alejandro	Federal Aviation Administration (FAA)
Rogoza, Bill	Raytheon
Scott, Jenipher	The MITRE Corporation
Secen, Al	RTCA, Inc.
Skoog, Todd	Garmin Ltd.
Stassen, Hans	The MITRE Corporation
Steinleitner, Jorg	EUROCONTROL
Stewart, Dave	Capital Sciences, LLC
Stone, Rocky	United Airlines, Inc.

Name	Company
Stumpf, Jonathan	Harris Corporation
Swider, Christopher	Federal Aviation Administration (FAA)
Turner, Jessie	The Boeing Company
Von Hoene, Paul	Federal Aviation Administration (FAA)
Weitz, Lesley	The MITRE Corporation
Wilson, Kevin	Honeywell International, Inc.

**\*\* 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.
  - Jessie convened the January 31, 2020 virtual meeting by welcoming all in attendance. Participants were identified based on the WebEx participant list and the RTCA VP and EUROCAE TPM manager read several standard policy statements (02\_RTCA\_RTCA\_EUROCAE\_Welcome\_Meeting\_KickOff\_Slides.pdf)
2. Review of Meeting Agenda.
  - Jessie 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 74<sup>th</sup> Meeting Summary
  - The minutes from the December 16<sup>th</sup> 2019 plenary (#74) were recently posted to the RTCA website
  - The minutes were approved during the Jan. 31<sup>st</sup> plenary.
4. Closing of the Open Consultation (OC)/Final Review and Comment (FRAC) and Committee Approval of Draft DO-361A/ED-236A, “Minimum Operational Performance Standards (MOPS) for Flight-deck Interval Management (FIM)”
  - Lesley Weitz presented “Post-FRAC for FIM FRAC Plenary” slides to the group
  - All FRAC dispositions reviewed and agreed to, with several actions
  - Remaining Actions
    - Plenary on Jan 31<sup>st</sup> to approve RTCA DO-361A for submission to March 26<sup>th</sup> PMC
    - PMC submission no later than February 25, 2020
  - 971 FRAC/OC comments resolved, no Non-Concurs
  - Reserve Appendix G [Test Descriptions and Data] in RTCA DO-361A, to be provided in Change 1

- May 1<sup>st</sup> : Virtual Plenary, FIM MOPS Change 1 FRAC/OC Opening (will close on June 15<sup>th</sup>)
  - Matt Erickson asked if there were any requirements changes in Change 1 or just test procedures. Lesley replied that it was currently scoped only for changing test procedures. However, if there were changes made in the 1090ES or Mode S transponder MOPS that impacted requirements in DO-361A/DO-236A, then such necessary modifications would be considered in Change 1.
  - Plenary was asked to approve RTCA DO-361A / ED-236A for submission to March 26th PMC
    - Motion made to approve DO-361A / ED-236A
    - Motion Seconded
    - Motion Approved
4. Other Business.
- None
5. Date, Place and Time of Next Meeting.
- Face-to-face plenary (76) session for SC-186 is March 20, 2020, location in Phoenix, AZ, with:
    - Planned closing of FRAC/OC and approval of DO-317C/ED-194B
    - Open FRAC/OC for DO-260C and DO-181F/ED-73F (joint with SC-209/WG-49).
  - 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]
  - Virtual Plenary session (79) to close FRAC/OC and approve DO-361A/ED-236A Change 1 on June 30, 2020
6. New Business
- None
7. Review Action Items/Work Programs.
- Remaining Action Items from previous plenaries:
    - SC-186 WG5 (UAT) Activities - Al Secen and Rocky Stone reached out to the UAT community to survey whether they are available and interested to initiate WG5 (it's likely that they will need to wait to start up until after DO-260C has gone through FRAC). The group has indicated interest in restarting. Target due date for the updated UAT MOPS (DO-282C) set to no earlier than August 2021 in

the TOR. WG5 is anticipated to begin work after WG3 has completed FRAC resolution of DO-260C. WG5 initiation action still remains open and the target date for completion of DO-282C may be adjusted once the working group initiates. WG5 Co-chairs will be needed to re-form the group. SC-186 leadership has the action to get WG5 co-chairs identified and to formulate an agreed-to schedule for DO-282C.

- SC-186/159 ISRA - Jessie to draft a formal ISRA between SC-186 and SC-159 to develop requirements related to a GNSS horizontal velocity error model.

No ISRA required (OBE). Per Miles Bellman (VOLPE), a joint SC-159/186 GPS velocity error working group met in 2019. SC-159 effectively concluded that they could not recommend any better GNSS horizontal velocity accuracy error model beyond the one that ATAS is using at this time. This action is closed.

8. Adjourn Plenary.

- Jessie thanked everyone for their participation and adjourned the meeting.