

RTCA Paper No. 199-21/SC186-388  
EUROCAE No. 090-20/WG51-196

August 16, 2021

**EIGHTY-FIRST MEETING**

**of RTCA SC-186**

**held jointly with EUROCAE WG-51**

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

**DATE:** August 16, 2021  
**TIME:** 11:00 a.m. – 12:00 p.m. (EDT)  
**PLACE:** 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

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

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Arbuckle, Doug	Federal Aviation Administration (FAA)	Brooks, Kimberly	Federal Aviation Administration (FAA)
Baker, Charles	Federal Aviation Administration (FAA)	Comstock, Greg	StratMach
Berckefeldt, Richard	Honeywell International, Inc.	Darr, Stephen	Dynamic Aerospace, Inc.
Bone, Randy	The MITRE Corporation	Daskalakis, Anastasios	Aurora Innovations
Bowman, Stuart	The MITRE Corporation	Duke, Jim	Air Line Pilots Association (ALPA)

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

**\*\* 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. RTCA Policy Presentation

- Al Secen read several standard policy statements (01\_RTCA\_Policy\_Slides.pdf)

2. Co-Chairs Welcome, Introductions, and Remarks

- Jessie convened the August 16, 2021 meeting by welcoming all in attendance. Participants were identified based on the WebEx participant list and the AerOpus website

3. Review of Meeting Agenda.

- Jessie reviewed the agenda

4. Review/Approval of the 80<sup>th</sup> Meeting Summary

- The minutes from the May 11<sup>th</sup> 2021 plenary (#80) were posted to the RTCA website
- The minutes were approved

5. Review and Approve ToR Update for SC-186

- Topic Lead: Jessie Turner

- Jessie reviewed the proposed changes in the various sections of the ToR including changes such as:
    - Added Change 1 of DO-260C with a FRAC date of Dec 2021
    - Added a Whitepaper for Summary of Activities and potential changes to DO-317C and DO-361A/Change 1 with a FRAC date of October 2022
  - Whitepaper details will be discussed further in Agenda item 8
    - Noted that there is no formal FRAC planned for this document, which was further clarified in the ToR with another note below the table
    - Alex Engel noted that the whitepaper would probably be considered as an Internal Report by EUROCAE and has not yet been approved for work by the TAC
  - ACAS Xo integration was removed from Specific Guidance item 6
  - Jessie made a motion to approve the ToR
    - A request was made to postpone approval until after Agenda item 8
    - After the Agenda item 8 presentation, the proposed ToR changes were seconded and approved
6. Review of Plan for Change 1 to RTCA DO-260C and EUROCAE ED-102B
- Topic Lead: Tom Pagano
  - Need for Change 1 driven by backward compatibility issue for TIS-B/ADS-R Service Status Management Message
  - 34 Total issues identified as needing clarification and correction
  - Proposed Schedule for Change 1 is to be completed with FRAC and approval by Dec 2021
  - Members are encouraged to bring any found errors/issues forward to be considered by the CSC during this process
7. Review and Approve SC-186 / SC-214 ISRA for Updated IM Data Comm Requirements
- Topic Lead: Randy Bone
  - Past Interval Management (IM) Message requirements based on IMP SPR (DO-328A / ED-195A) and MOPS (DO-361 / ED-236)
  - IM SPR (DO-328B / ED-195B) and MOPS (DO-361A / ED-236A) have since been updated
  - HITL Simulations have been conducted
  - Future activities include a continuation of the ISRA between SC-186 and SC-214 (SC-186/003)
  - Most IM requirements definition has already been done in DO-350A / ED-228A and DO-351A / ED-229A.
  - The updates will not affect the planned completion date of April 2023
  - Jessie requested a motion to approve the ISRA, which was made, seconded, and approved
8. ADS-B In Application Discussions (FAA)

- Topic Lead: Dr. Lesley Weitz
  - ADS-B In applications work has continued since DO-317C and DO-361A were published, for example,
    - The FAA has continued work on ADS-B In Retrofit Spacing (AIRS) evaluation project
    - FAA and MITRE have advised a NAC task group on ADS-B In applications
  - Proposed activities are to:
    - Identify any potential changes needed in DO-317C and DO-361A
    - Support the development of additional applications that utilize the requirements already defined in DO-317C
    - Support the OEMs and avionics manufactures in successfully implementing DO-317C and DO-361A
  - Logistics and example agenda topics were shared
  - Planning to deliver the whitepaper summarizing activities and recommendations no later than October 2022
9. Schedule next plenary meetings for opening of FRAC, Closing of FRAC/Comment Resolution Referral to PMC
- Plenary 82 - Virtual plenary meeting date and time proposed to Oct 21
10. Other Business
- Review Action Items
    - Action:
    - Remaining Action Items from previous plenaries
      - ~~Action: Tom Pagano to explore whether DO-260C Change 1 may be needed and in what timeframe~~
11. Adjourn Plenary.
- Jessie thanked everyone for their participation and adjourned the meeting.