

RTCA Paper No. 294-22/SC186-402
EUROCAE Paper No: 390-22/WG51-208

July 15, 2022

EIGHTY-SIXTH MEETING

of RTCA SC-186

held jointly with EUROCAE WG-51

AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST (ADS-B)

DATE: July 15, 2022
TIME: 10:00 a.m. – 11:00 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)

Al Secen (RTCA)
Stacey Rowlan
Alexander Engel
Brian Townsend

Larry Kenney
Taji Shafaat
Rogoza - Raytheon
Technologies
Bogdan Petricel

Dan Streufert
Rocky Stone
Jessie Turner
Brandi Teel

Matt Erickson
Dan Lovelace
Randy Jacobson
Julien Dambemont
Doug Guetter - Honeywell
Paul Vonhoene
Kara MacWilliams
Michael Garcia
Paul Harrison
Stuart McKay (UK CAA)
Brenda Perez
D. J. Winkel
Greg Comstock
Wen Yang
Jorge A. Alvarez

Bill Penhallegon
Steve Darr
Doug Arbuckle
Wes Googe AA
Todd Skoog
Tom Pagano
Lesley Weitz
tim steiner
Aaron Dutle
Timothy W
Brandon Suarez (GA-ASI)
Kimberly Brooks
Jorg Steinleitner
H. Peter Stassen
Joe Kotula

Matt Haskin
Jens Hennig
Bob Pomrink
Sheila Conway
Rob Strain
Jack Field
Jen Scott
Pat Maggard
ERIC POTIER
Alex Rodriguez
Ian Maccoomb
Miles Bellman, FAA
Martin Gray

**** 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. Co-Chairs Welcome, Introductions, and Remarks
 - Jessie convened the July 15, 2022 meeting by welcoming all in attendance. Participants were identified based on the WebEx participant list and the AerOpus website
2. RTCA and EUROCAE Policy Presentation
 - Brandi Teel and Alex Engel read several standard policy statements (RTCA Policy Slides.pdf)
3. Review/Approval of Meeting Agenda.
 - Rocky reviewed the agenda
4. Review/Approval of the 85th Meeting Summary
 - The minutes from the March 25, 2022 plenary were posted to the AerOpus website
 - The minutes were approved
5. RTCA SC-186 WG-4 / EUROCAE WG-51 SG-3 ADS-B In Applications Status
 - Topic Lead: Lesley Weitz
 - Updated group plan

- Strengthen white paper impact by including industry perspectives on ADS-B IN applications
 - a. SC-186 WG-4/WG-51 SG-3 leadership will develop a template for industry input
 - b.
 - An updated schedule was shown for this plan
 - Planning to delivery final white paper to SC-186/WG-51 chairs by Oct 14
 - Discussed that a formal FRAC would not be needed for the white paper to go to the PMC, but a plenary high level approval would be warranted
 - Lesley reviewed the survey that was used regarding ADS-B In applications to get industry feedback
6. Advanced Air Mobility (AAM) Surveillance Spectrum (SC-228 Activity Support)
 - Topic Lead: Jessie Turner
 - A Vehicle to Vehicle/Ground White paper is being worked on by this group. This includes some feasibility studies. The target date for completion is Dec 2022.
 - One of the gaps identified by the group is a lack of a surveillance approach for AAM applications
7. Other Business
 - SC-242/WG-124 Spectrum Compatibility and RF Information Request
 - Topic Lead: Jessie Turner
 - In order to prevent future negative impacts and equip aviation with a strategic solution to guarantee long-term sustainable access to spectrum required for growth, RTCA and EUROCAE have started joint Special Committee (SC) 242/Working Group (WG) 124 on Spectrum Compatibility
 - The ultimate goal of the activity is to provide guidance material for future new and revised standards to ensure that the RF characteristics of aeronautical systems are complete and are fit-for-purpose in the evolving spectrum environment, while respecting the necessary safety margins
 - The guidance is intended to facilitate any future evaluation of compatibility with other systems
 - Doug Arbuckle recommended that Jessie reach out to Tom Pagano and Eric Potier to review their work on the ICAO Surveillance Panel
 - Pairwise Trajectory Management (PTM) Discussion
 - Topic Lead: Jessie Turner
 - Jessie showed a PTM paper from the ICAO SASP (Warburton, Mauer, Kessler, and Beritsky)
 - Doug gave an overview of the FAA perspective and planned activities with respect to PTM
 - a. FAA brought the Pairwise Trajectory Management (PTM) concept to the ICAO Separation and Airspace Safety Panel

(SASP) to see if there were other ICAO States working on similar techniques, so that any new SASP work under a proposed job card would be representative of worldwide interest.

- b. The FAA has a cadre of personnel that knows how to develop avionics standards for ADS-B In applications as well as the associated ATC automation requirements, but after FY22 funding runs out, the FAA is not expected to receive any funding to do such work in FY23 since no funding was requested in the President's FY23 budget.
- c. Therefore, there are no near-term plans within the FAA to pursue avionics standards development for PTM. However, the FAA Future of the Ocean 2035 (FOTO35) project is interested in the PTM concept for the envisioned future of oceanic operations

8. Review Action Items

- Action:
 - Lesley Weitz to present some recommended dates for review/comment/finalization of the ADS-B In applications whitepaper by the next plenary – CLOSED
- Remaining Action Items from previous plenaries
 - None

9. Schedule next plenary meetings

- Plenary 87 - Virtual plenary meeting date and time proposed to Nov 4, 2022
11am – 12pm EDT

10. Adjourn Plenary.

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