



RTCA Paper No. 203-22/SC206-191

EUROCAE Paper No. 276-22/WG76-80

August 5, 2022

Summary of the 68th Meeting
Summary of the 64th Meeting
Aeronautical Information Services (AIS) and Meteorological (MET) Data Link Services
RTCA Special Committee 206 (SC-206)
EUROCAE Working Group (WG-76)

Executive Summary

The joint RTCA SC-206 / EUROCAE WG-76 Plenary meeting was held on Friday, June 24, 2022.

- SC-206 SG-1: ADS-B Weather Standards Development Activities
 - The RTCA PMC approved DO-282C; Minimum Operational Performance Standards for Universal Access Transceiver (UAT) Automatic Dependent Surveillance – Broadcast.
 - There are a number of other ongoing, related activities (e.g., the ASTERIX Maintenance Group) and standards within ICAO are at various stages of development.
 - While SG-1 is not actively developing standards under SC-206 at this time, the sub-group is monitoring quite a few related activities.
- SC-206 SG-4/WG-76 SG-2: Turbulence White Paper
 - The scope of the current SG-4 effort has not changed.
 - EDR is the standard turbulence reporting metric, however, there are other reporting methods in use today. The question is how to ensure the operational usability and comparability amongst all the various metrics.
 - SG-4 has started a “deep dive” of the DO-370 document. DO-370 is a guidance document and does not include language to invoke anything. SG-4 will be looking heavily at that. SG-4 is considering a recommendation to revise the DO-370 document, perhaps change the document name to reflect this work, and enabling a means to invoke the new document.
 - There have been a lot of technologies developed since DO-370 was published. SG-4 is starting to receive presentations from the developers of those new technologies and obtaining stakeholder involvement. Currently SG-4 is looking at eleven different algorithms.
 - Airlines are setting different turbulence thresholds and SG-4 will discuss if there should be a baseline.
- SG-6/WG-76: MASPS (DO-364A/ED-XXX)
 - SG-6 conducted an action item review this week and completed the D-RVR Operational Safety Assessment (OSA) and the Operational Performance Assessment (OPA).
 - SG-6 has established a Tiger Team to develop a security paragraph at the datalink system level. The sub-group decided to uplevel security to the datalink itself and they want to be sure to address it in this MASPS.
 - The Airborne Reroute Information (ARI) Service Description (SD) is now mature and was briefed at the EFB Users Forum in early June and will be briefed to airline dispatchers at their annual summit in October.
 - The sub-group will begin a DO-364A review at the December 2022 Plenary.
 - SG-6 anticipates completing the MASPS document in September 2023.

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- SC-206 SG-8/WG-76 SG-1: DO-XXX/ED-89B
 - A two-day drafting session was held, and the group had the benefit of material developed earlier. The next drafting meeting will be held at the end of August.
 - The sub-group is in need of an SC-206 Task Lead for SG-8 and the group is looking for volunteers. The SC-206 leadership noted that they will be discussing this offline and will attempt to identify some FAA candidates.

- Industry briefings were presented on the following topics:
 - EUROCAE ED-89A Change 1 Progress Report
 - ADS-B Weather Implementation
 - Collaborative Decision Making (CDM) Update

- Next meeting:
 - September 19-23, 2022 (EUROCONTROL - Brussels)
 - Joint RTCA SC-206 (Meeting 69) / EUROCAE WG-76 (Meeting 65) Plenary

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Joint Plenary Meeting Summary

The joint RTCA SC-206 / EUROCAE WG-76 Plenary meeting was held on Friday, June 24, 2022.

Presentations are posted at:

<https://aeropus.i3cloudservices.com/Group/GroupLanding/99?tab=Documents&folder=2022+Meetings%2F2-June+21-24%2C+2022+-+68th+Meeting>

Friday, June 24th Plenary

The Plenary convened at approximately 0800 EDT

1. Welcome and Opening Remarks

- Reference the 2022 June SC-206 WG-76 Plenary Leadership Slides final.pptx slides
- Rocky Stone opened the meeting at approximately 0805 EDT
- Karan Hofmann thanked Mark Libant and NAV CANADA for hosting this week's meeting
- Rocky added that it has been a productive SG-6 meeting this week
 - Rocky noted that it was good meeting back in person as it has cut down on a lot of multi-tasking that was necessary with virtual meetings
- Karan Hofmann and Alex Engel briefed their respective RTCA and EUROCAE slides

2. Introduction of Attendees (* denotes remote participation)

- Rocky Stone, Co-chair United Airlines
- Mark Libant, Co-chair NAV CANADA
- Joe Bracken, Secretary* AvMet Applications, Inc.
- Eldridge Frazier* FAA, Government Authorized Representative
- Moin Abulhosn* FAA
- Jeffrey Aenmey European Cockpit Association
- Louis Bailey* The Boeing Company
- Bill Carson The MITRE Corporation
- Stephane Dubet Direction générale de l'Aviation Civile (DGAC)
- Mark Eden Air Line Pilots Association, Int'l
- Bill Edgar Synoptic Data
- Alexander Engel EUROCAE (WG-76 Technical Programme Manager)
- Izabela Gheorghisor The MITRE Corporation
- Karan Hofmann* RTCA, Inc. (SC-206 Program Director)
- Amanda Hoprich* AvMet Applications, Inc.
- Ed Johnson* FAA
- Michael McPartland* MIT/LL
- Jim Mills HQ USAF/DoD
- Mark Phaneuf Air Line Pilots Association, Int'l
- Chris Young* Collins Aerospace

3. Review and Approval of Meeting Agenda

- Reference the June2022_206_76_Agenda_final/pptx slides
- Rocky noted that one item has been dropped from the published agenda
 - We will not be discussing Qualifying Third-Party Weather Providers
 - This will be presented at the September plenary
 - Rocky made a motion that the Meeting Agenda be approved

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- The motion was seconded
 - The Meeting Agenda was approved
4. Review and Acceptance of Minutes of WG-76 Meeting 63 / SC-206 Meeting 67 (September – Virtual)
- Joe Bracken reported that the March Plenary Meeting Summary was posted to the AerOpus site on March 31st after all comments by leadership and presenters were received and dispositioned
 - Rocky made a motion to accept the March Plenary Meeting Summary
 - The motion was seconded
 - The March Plenary Meeting Summary was approved
5. Report of Sub-Groups:
- SC-206 SG-1: ADS-B Weather Standards Development Activities
 - Ed Johnson provided the SG-1 status briefing
 - There were no slides associated with this update
 - Ed noted, with respect to the ADS-B weather standards activity, yesterday the RTCA PMC approved DO-282C
 - There are a number of other ongoing activities
 - ASTERIX Maintenance Group
 - Standards within ICAO are in various stages of development
 - Rocky stressed that although SG-1 is not actively developing standards under SC-206 at this time, they are monitoring quite a few related activities
 - Rocky asked if there were any updates on the Sunsetting of SG-1
 - Ed responded that that will be briefed later in the agenda
 - SC-206 SG-4/WG-76 SG-2: Turbulence White Paper
 - Mark Phaneuf provided the update
 - Reference the [2022 June SC206_WG76 Plenary SG4 Slides_v1_20220617.pptx](#) slides
 - Mark started by recognizing Tammy Flowe and Tim Rahmes were not able to attend today
 - The scope of the current SG-4 effort has not changed
 - EDR is the standard turbulence reporting metric
 - However, there are other reporting methods that are in use today
 - The question is how to ensure operational usability and comparability amongst all the reporting metrics
 - SG-4 has started a “deep dive” of the DO-370 document
 - DO-370 is a guidance document and does not include language to invoke anything
 - SG-4 will be looking heavily at that
 - A lot of other technologies have come out since DO-370 was published
 - SG-4 is starting to receive presentations from the developers of those new technologies and obtaining stakeholder involvement
 - SG-4 held their first face-to-face meeting at RTCA headquarters last week
 - They have set up a “roadmap” to determine how to get their work done by the end of the year
 - Currently, they are looking at eleven different algorithms and are beginning to receive presentations from industry
 - They would like to have their White Paper go from yellow to green status in the October timeframe
 - The White Paper will include a few recommendations
 - Airlines are setting different turbulence thresholds and SG-4 will discuss if there should be a baseline

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- Mark noted that SG-4 is considering a recommendation to revise the DO-370 document and perhaps change the document name to reflect this work
- Rocky concurred and agreed with changing the name of the DO-370 document and possibly invoking the new document
- Mark Libant recommended that SG-4 speak with DTN Weather Company
- Mark Libant also noted that he has notified NAV CANADA of the work SG-4 is doing and that NAV CANADA should be contacting the SG-4 leadership
 - Mark Phaneuf responded that an operations and meteorological representative from NAV CANADA would be a good addition to the team
- Joe Bracken asked if there will be any spillover to the general aviation (GA) and corporate world
 - Mark responded that SG-4 is focused on FAR Parts 121 and 135
 - Eldridge added that GA is not regulated, therefore, there is no requirement to adhere to standards
 - Mark noted that they have spoken with ForeFlight and that ForeFlight may provide a briefing to SG-4
 - Moin Abulhosn added that GA is regulated “indirectly,” so there may be some spillover that GA could benefit from
- SG-6/WG-76: MASPS (DO-364A/ED-XXX)
 - Reference the [Sg6_WG76_June_2022_Plenary_Closing.pptx](#) slides
 - Eldridge Frazier provided the briefing
 - Eldridge echoed Rocky’s earlier comment regarding the excellent work accomplished this week
 - Eldridge attributes this to the team that was able to meet in Ottawa this week
 - Eldridge also thanked the new members that are supporting this effort
 - The team conducted an action item review this week
 - The team also completed the D-RVR Operational Safety Assessment (OSA) and the Operational Performance Assessment (OPA) this week
 - They have established a Tiger Team to develop a security paragraph at the datalink system level
 - The team decided to uplevel security to the datalink itself and they want to be sure to address it in this MASPS
 - The Airborne Reroute Information (ARI) Service Description (SD) is now mature
 - This was briefed at the EFB Users Forum in early June and will be briefed to airline dispatchers at their annual summit in October.
 - Eldridge referred to and revised the “work plan to completion” slide
 - The sub-group will begin a DO-364A review at the December 2022 Plenary

Work Plan to Completion (June 2022)						
June Plenary 2022	September Plenary 2022	October 2022 Meeting	December Plenary 2022	March Plenary 2023	June Plenary 2023	September Plenary 2023
Runway Visual Range OPA Action Item resolution	Airborne Rerouting Information OSA and OPA	Action Item Review and resolution	Continue Review of DO-364A Sections 2, 3, 4, and 5	Baseline Main Document Deep Dive in DO-364A Appendix A, B and C	Review and Baseline DO-364A for FRAC Release	Approve DO-364A / ED-XX for RTCA PMC and EUROCAE TAC Approval

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- SG-6 anticipates finishing the MASPS document in September 2023
- SC-206 SG-8/WG-76 SG-1: DO-XXX/ED-89B
 - Alex Engel provided the briefing
 - There were no slides associated with this update
 - Alex noted that they held a two-day drafting session and that they had the benefit of material developed earlier as a starting point
 - Their next drafting meeting will be held at the end of August
 - There is a need to find an SC-206 Task Lead for SG-8
 - Alex is looking for volunteers
 - Rocky responded that he and Mark Libant and Eldridge will discuss this
 - Karan added that she has reached out to Collins Aerospace for an individual to replace Madhu Niraula, however that individual is not able to take on the Task Lead position at this time
 - Karan and Eldridge have discussed a potential Task Lead
 - They could put this request out to various organizations, but that sub-group requires the correct person as Task Lead
 - Chris Young (Collins Aerospace) commented that he is attempting to understand the need regarding Madhu's activities related to the ED-89A change
 - Chris asked the Committee to contact him directly with specific questions and he will help sort this out
 - Chris also noted that he personally is in no position to lead this group
 - **Action: SC-206 to discuss and identify an SG-8 Task Lead**

6. Industry Coordination

- Qualifying Third Party Weather Providers
 - This particular item was not able to be briefed today
 - This will be deferred until the September Plenary and will be added to that agenda
- EUROCAE ED-89A Change 1 Progress Report
 - Alex Engel provided the briefing
 - There were no slides associated with this update
 - Alex indicated that this effort includes two parts
 1. A quick solution for a text character limitation in ED-89A
 - Currently limited to 800 characters
 2. ICAO developed a new format for reporting runway conditions
 - For each runway, there are three reporting points (touchdown, midpoint, endpoint)
 - For complex airports with long and numerous runways, messages can get quite lengthy
 - In their first meeting, they were unsure they could extend the number of characters
 - Chris Young asked for clarification on the issue
 - Alex responded Madhu Niraula had reached out to Collins to determine what would happen to the ACARS datalink if the number of characters was expanded
 - Madhu was ready to present his findings on this, however, that has been overtaken by events
 - If ACARS is unable to transmit longer messages, they will have to stop their efforts to include the change in ED-89A
 - Rocky asked if runway condition reporting is what is driving this increase in the data

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- Alex responded that the Global Reporting Format (GRF) has been implemented in ICAO
- Alex added that EASA and ICAO require that the content of voice and digital ATIS be identical
- ED-89A Change 1 was expected to be a quick solution
- ADS-B Weather Implementation
 - Ed Johnson noted that an update to this effort was included in the SG-1 update earlier
 - There were no slides associated with this update
 - Ed noted that there are a couple of things to report since the last Plenary
 - The final investment decision within the FAA to process version 3 (v3) messages occurred in 2018
 - The SBS office is on track to process v3 messages and plans to be up and running by 2025
 - They have received word from Aerion on the ability to process v3 and ADS-B messages
 - This is another avenue to process that information
 - The NWS has been considering ADS-B Weather (Wx) data
 - All divisions met and validated as a requirement that the NWS would like to receive the ADS-B Wx data when it is available
 - This opens the possibility of the NWS to stand up a project to receive and process ADS-B Wx data
 - There is a lot of industry coordination underway
 - However, we may be losing Steve Darr due to funding issues
 - Rocky commented on the SBS office being on track to receive v3 messages by 2025
 - If someone is transmitting a v3 message, will it be processed by the ground station?
 - Ed responded not at this time
 - However, as part of updating the ground stations, they are planning to develop “red-label” transponders that are able to transmit all ADS-B messages
 - Ground receivers are to be ready to go by 2025
 - Mark Phaneuf asked if they are looking for any transponder BETA testers
 - Ed responded that that has been mentioned, but testing would need to be done prior to 2025
- Collaborative Decision Making (CDM) Update
 - Rocky Stone provided the update
 - There were no slides associated with this update
 - Rocky noted that Steve Abelman presented the ARI SD at the recent EFB Users Forum
 - Eldridge added that SG-6 did a combined presentation, and it went over well
 - The next presentation is to airline dispatchers in Las Vegas in October
 - Rocky noted that while we have a SD for ARI, unless the CDM community chooses to do something with it, nothing will happen
 - Rocky also noted that he has made presentations to the Future Concepts Team
 - There is general agreement, but they are unsure how to implement it
 - There needs to be policy changes that are above the level of this community
 - Rocky stated that there is a lot of interest, which may lead to a lot of pressure to move forward

7. Future Meetings, Plans, and Dates

- The following table of future meeting dates / locations was discussed

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Future Meetings		
EUROCAE	RTCA	
Plenary Meeting Dates	Plenary Meeting Locations (Hosts)	Notes
June 21-24, 2022	Ottawa (NAV CANADA - Mark)	Joint WG-76/SC-206 Plenary
September 19-23, 2022	Brussels, Belgium (EUROCONTROL - Alex)	Joint WG-76/SC-206 Plenary
December 5-9, 2022	Washington, DC (RTCA - Karan) or Florida (TBD)	Joint WG-76/SC-206 Plenary (DO-364A/ED/XXX FRAC Release)
March 13-17, 2023 (Avoid wk of March 6th)	Toulouse, France (Airbus - Macarena)	Joint WG-76/SC-206 Plenary (DO-364A/ED/XXX FRAC Resolution; DO-XXX/ED-89B FRAC Release; Turb White Paper to PMC)
June 12-16 or 26-30, 2023	Frederick, MD (AOPA - TBD); Backup: Washington, DC (RTCA - Karan)	Joint WG-76/SC-206 Plenary (DO-364A/ED/XXX to PMC; DO-XXX/ED-89B FRAC Resolution)
SG/WG Meeting Dates	SG/WG Meeting Locations (Hosts)	Notes
October 24-28, 2022	Seattle, Washington (Boeing - Louis)	SG-6/WG-76 Meeting

- Eldridge noted that there is an SG-6 meeting scheduled for October 24-28 at Boeing in Seattle
 - Eldridge proposes that participants travel on the 23rd and return on the 29th
 - Louis Bailey and the SG-6 participants concurred with the dates
 - Louis noted that the meeting location at Boeing will be determined at a later date
 - The meeting will be held at either Boeing Field or the Longacres facility
- Reference the December 2022 Plenary
 - Karan noted that she does have rooms reserved at RTCA in Washington, DC
 - Eldridge is looking into having the testbed at Embry-Riddle host in Daytona Beach, Florida
- Reference the June 2023 Plenary
 - Eldridge is coordinating with AOPA to host the meeting at their facility in Frederick, Maryland
 - The participants agreed to move the meeting to the last week in June
 - Louis added that Boeing has a new headquarters building in Fairfax, Virginia if that is of interest
- Regarding potential meetings in September and December 2023
 - Rocky noted that we have not set meetings past June 2023
 - That would require a TOR change
 - Eldridge added that he plans to have the MASPS document released for FRAC in June 2023
 - Rocky added that if that is the case, then we will need to schedule September and December 2023 meeting dates
 - This will be discussed at future Plenary meetings
 - **Action – SC-206 to discuss scheduling Plenary sessions in September and December 2023**

8. Action Item Review

- Action Item 384
 - Meeting date was moved to the week of June 26, 2023
 - This item was closed
- Action Item 385
 - This item remains open
- Action Item 386
 - This item was closed
- Action Item 387
 - This item was closed
- Action Item 388

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- This item was closed
- Four new Plenary action items were identified during today’s session and are shaded in green below
- The current SC-206/WG-76 Plenary Action Item list is as follows:

Open Action Items					
#	Owner	Action	Date	Due Date	Status
384	Karan Hofmann	Karan to tentatively hold RTCA meeting space for the week of June 12, 2023 (pending AOPA availability) – Moved to week of June 26 th	March 2022	June 2022	Closed Sept 2022
385	Eldridge Frazier	Eldridge to contact AOPA to see if they would be willing to host the joint June 2023 Plenary meeting at their facility in Frederick, MD	March 2022	June 2022	Open
386	Mark Libant	Mark to provide list of Ottawa hotels to the SC-206 members for the joint June 2022 Plenary meeting	March 2022	May 2022	Closed Sept 2022
387	Eldridge Frazier	Eldridge to send the draft TOR change slides to the SC-206 leadership by COB Monday, March 14 for review	March 2022	March 14, 2022	Closed Sept 2022
388	Eldridge Frazier	Eldridge to prepare the TOR change slides and present the document to the PMC on Thursday, March 17	March 2022	March 17, 2022	Closed Sept 2022
389	Eldridge Frazier	Ascertain FAA position on sunseting SG-1 and brief that position at September Plenary	June 2022	Sept 2022 Plenary	Open
390	SC-206	SC-206 to discuss and identify an SG-8 Task Lead	June 2022	Sept 2022 Plenary	Open
391	SC-206	SC-206 to discuss scheduling Plenary sessions in September and December 2023	June 2022	Sept 2022 Plenary	Open
392	Eldridge Frazier	Coordinate with Kevin Johnston (ANG-C64) for a briefing at the September Plenary on FAA Policy regarding qualifying 3 rd party weather providers	June 2022	Sept 2022 Plenary	Open

9. Other Business

- Sunsetting SC-206 SG-1
 - Eldridge commented that he would like to table this discussion until he obtains an FAA position
 - **Action – Eldridge to ascertain the FAA position on sunseting SG-1 and brief that position at the September Plenary**
 - Rocky noted that even though there is no open work plan or TOR deliverables for SG-1 at the time, there are related “tentacles” within the industry that SG-1 is monitoring
- SG-5

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- Bill Carson noted that by September 2023, SG-5 may need to be re-energized due to the inclusion of ADS-B
- Rocky responded that if that is the case, SG-5 would again be an additional active sub-group within SC-206
- Moin noted that the SC-206 TOR would need to be revised
 - Rocky concurred, but noted that for now the TOR is stable and accurate

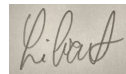
10. Adjourn

The Plenary adjourned at approximately 0940 EDT on Friday, June 24, 2022.

CERTIFIED as a true and accurate summary of the meeting.



Rocky Stone, SC-206 Co-chair



Mark Libant, SC-206 Co-chair



Joe Bracken, SC-206 Secretary

Macarena Martin-Viton, WG-76 Secretary