RTCA Paper No.   180-19/SC206-164   July 26, 2019
EUROCAE Paper No.   EUR 158-19 / WG76-47

Summary of the 56th Meeting   **RTCA Special Committee 206**
Summary of the 52nd Meeting   **EUROCAE WG-76**
Aeronautical Information Services (AIS) and Meteorological (MET) Data Link Services

Executive Summary

The joint RTCA SC-206 / EUROCAE WG-76 Plenary meeting was held during the week of June 10th at AOPA Headquarters in Frederick, Maryland.

o   SG-1 – CSC and Other SC Coordination (ISRAs)
  - SG-1 is preparing for the next Combined Surveillance Committee (CSC) meeting
  - SG-1 has finalized the ADS-Wx extended squitter definitions and MOPS verbiage implementing ADS-Wx and will propose ADS-Wx MOPS requirements to the CSC during the June 2019 meeting
  - SG-1 will brief the ICAO Surveillance Panel Aeronautical Surveillance Working Group (ASWG) Technical Subgroup (TSG) meeting in June 2019
  - SG-1 plans to brief the ADS-Wx final message sets to SC-206/WG-76 membership at the September Joint Meeting
  - SG-1 will participate in the ICAO Surveillance Panel, ASWG meeting in September 2019
  - Steve Darr will lead the planning for the Friends and Partners for Aviation Weather (FPAW) Fall Meeting half-day session on Weather from the Flight Deck
  - SG-1 continues to coordinate with:
    o SC-206, SC-186, and CSC Leadership
    o Transponder manufacturer representatives,
    o Interval management team,
    o Aircraft manufacturers,
    o National and international wake turbulence teams,
    o FAA, ICAO, and others.

o   SG-5: FIS-B MOPS
  - SG-5 is preparing for the release of two new FIS-B Products: Temporary Restricted Areas (TRAs) and Temporary Military Operating Areas (TMOAs)
    o Revision B of DO-358 will account for these two new FIS-B Products.
  - The Preliminary Design Review (PDR) of the TRA/TMOA products is scheduled for September 2019
    o Prior to the PDR, SG-5 is still meeting regularly to coordinate and work activities not dependent on the Software Design for the TRA/TMOA Products.
  - Currently there is a short pause for TRA/TMOA in the SG-5 activity
    o The FAA is developing a specification for TRA/TMOA NOTAM format and details will be delivered to Harris from the FAA for uplink

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- Therefore, SG-5 is awaiting further direction from the FAA
- SG-5 is currently evaluating DO-358A FRAC comments for any items relevant to DO-358B
  - o Eldridge Frazier is arranging a briefing from the SBS and NOTAM office

- o SG-6: MASPS
  - SG-6 is continuing to make progress in the development of Service Descriptions associated with DO-364A
  - Working Group 1 (Aeronautical Information) and Working Group 3 (Collaborative Decision Making) are in need of a European individual to co-chair the WG

- o System-Wide Information Management (SWIM) Briefing
  - There were two briefings this week regarding US and European SWIM
  - The US SWIM is an Air-Ground service whereas European SWIM is primarily a ground-ground service

- o Next Meetings:
  - September 9-13, 2019:
    - Joint WG-76 / SC-206 Plenary and SG-1, SG-6 (Toulouse, France)
    - SG-5 work on DO-358B (Herndon, Virginia)
  - December 9-13, 2019 (Phoenix, AZ):
    - Joint WG-76 / SC-206 Plenary

Joint Plenary Meeting Summary

The joint RTCA SC-206 / EUROCAE WG-76 Plenary meeting was held during the week of June 10th at AOPA Headquarters in Frederick, Maryland.

Presentations are posted at:
https://workspace.rtca.org/apps/org/workgroup/sc-206/documents.php?folder_id=8509

Monday, June 10th Opening Plenary
The Opening Plenary session convened at approximately 0900 EDT.

1. Welcome and Opening Remarks
   - Reference the <u>Leadership Opening Slides – June 10, 2019</u>

2. Attendee Introductions
   - Rocky Stone, Co-chair   United Airlines
   - Tom Evans, Co-chair   NASA
   - Joe Bracken, Secretary   AvMet Applications, Inc.
   - Eldridge Frazier   FAA, Government Authorized Representative
   - Biruk Abraham*   FAA
   - Moin Abulhosn   FAA Aircraft Certification
   - Louis Bailey   The Boeing Company
   - Bill Carson   The MITRE Corporation
   - Stephen Darr   Dynamic Aerospace
   - Stephane Dubet   DSNA
   - Rune Duke   AOPA
   - Mark Eden*   Air Line Pilots Association (ALPA), Int'l
   - Alexander Engel   EUROCAE
   - John Ferrara*   Consultant
   - Tammy Flowe   FAA Aviation Weather
   - Paul Freeman*   Harris
   - Jeremy Garber*   Harris
   - Nouri Ghazavi*   FAA
   - Izabela Gheorghisor*   The MITRE Corporation
   - Karan Hofmann   RTCA
   - Jeremy Holman*   Garmin
   - Amanda Hoprich*   AvMet Applications, Inc.
   - Ed Johnson   FAA
   - Robert Lee   AvMet Applications, Inc.
   - Mark Libant   NAV Canada
   - Matthew Lug*   HQ USAF
   - Tom Mai   FAA
   - Jim Mills   HQ USAF
   - Benoit Morizet   Airbus Operations
   - Rebecca Morrison*   RTCA

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- Mark Mutchler*   FAA
- Madhu Niraula*   Collins Aerospace
- Mark Phaneuf   Air Line Pilots Association (ALPA), Int'l
- Tim Rahmes*   The Boeing Company
- Boris Resnick*   International Aeronavigation Systems (IANS)

*Remote

3. Review and Approval of Meeting Agenda
   - Meeting agenda for this week was approved

4. Review and Acceptance of Minutes of WG-76 Meeting 51/SC-206 Meetings 54 and 55
   - Rocky made a motion to accept the Meeting Summaries
     o Tom Evans seconded the motion
   - There were no objections
     o The Meeting Summaries were approved

5. Action Item Review
   - Action Item 329
     o This document is still in review and coordination
     o The draft version has been provided to the SC-206 membership
     o This Action Item will remain OPEN
   - Action Item 330
     o Tom Evans reported that Steve Young is contacting the appropriate people to identify an industry presenter
     o Mark Mutchler commented that there is a strong push for on demand mobility for aviation and that this is tied to UAS operations
       - Mark added that he works with Wes Frye and could provide a point of contact if necessary
       - Mark could also get information on UTM and how on-demand mobility could interface with the NAS
     o Stephane Dubet indicated that he could have a discussion with WG-44 and obtain a collection of specifications
       - In the latest discussions in Europe, there is some uncertainty in the requirements within that committee
     o This Action Item will remain OPEN
   - Action Item 331
     o Eldridge reported that the necessary information has been posted to Workspace
     o This Action Item can be CLOSED
   - Action Item 332
     o This Action Item can be CLOSED
   - Action Item 333
     o This Action Item can be CLOSED
   - Action Item 334
     o Stephane reported that the WG-104 deliverables were put on Workspace by Alex
       - However, they did not identify any specific document that would be helpful
     o Stephanie indicated that the EUROCONTROL SWIM specifications consist of 3 documents
       - All are available on the internet

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- Stephane provided the following url to access the EUROCONTROL SWIM specifications
- https://www.eurocontrol.int/publications/eurocontrol-specifications-system-wide-information-management-swim
  o Stephane reported that the Procedures for Air Navigation Services (PANS) is still in draft, so he is limited in his ability to transmit the document at this time
    - However, the PANS may be able to be distributed later in the year
    - Stephane recommended delaying providing the PANS until October
  o Alex noted that requests for ICAO material must go through the Secretariat
  o This Action Item will remain Open until October
- Action Item 335
  o This Action Item will be addressed and closed during the Friday June 14th closing Plenary
- Action Item 336
  o This Action Item can be CLOSED
- Action Item 337
  o This Action Item can be CLOSED
- Action Item 338
  o This Action Item can be CLOSED

6. Industry Coordination
   - EUROCAE WG-104 – European SWIM
     o This briefing will be presented during the Friday, June 14th closing Plenary due to a national holiday in Europe today
   - U.S. SWIM
     o Reference the System Wide Information Management and Connected Aircraft briefing slides
       - Biruk Abraham provided the briefing
     o Reference Slide 10
       - Rocky asked if there are airlines participating in SWIFT
         1. Rocky is interested in who the United Airlines participant may be
         2. Biruk referred Rocky to slide 11 as to which entities are participating
     o Reference Slide 9
       - Louis asked when "web services" are coming online
         1. Biruk responded that this is related to "connected aircraft"
       - Louis asked if Biruk could point him to the concepts for how the collaboration of the information takes place versus the exchange of information
         1. **Biruk agreed to provide the url to several Use Cases that discuss how the information will be used**
            i. There is ongoing collaboration within the group as to how to provide and use the information
       - Biruk stated that they are working with implementers within the FAA as to how the information will be provided and made operational
     o Eldridge asked if there are any concepts that will move to the ICAO level
       - Biruk responded in the affirmative
         1. They are currently writing the Safety Critical portion of the connected aircraft concept

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o Reference Slide 7
   - Jim Mills asked about the reference to the service in the cloud solution being for non-NAS use
      1. Biruk responded that in some instances, there are FAA-internal processes that are not NAS related
   - Jim asked if the NOTAM distribution service is currently part of cloud service
      1. Biruk responded not at this time
         i. That service would be available through the NAS Enterprise Secure Gateway (NESG) via SWIM, but not via the cloud
o Stephane Dubet asked for the difference between an AIS/MET Service in the ground environment versus the AIS/Met Service similar to what is being worked in RTCA/EUROCAE
   - Stephane added that ICAO SWIM is ground to ground
   - Biruk commented that there is a difference between the services
      1. They need to recognize the potential services on how the information is handled in the ground to ground environment
         i. In the air, the messages are streamlined
      2. They also need to recognize the operational use base standards and performance metrics and what drives the requirements for ground to air services
   - Biruk added that, from the ICAO Information Management Panel (IMP) perspective, they are developing a set of basic standards for how the information service can be shared with users in a more standardized manner
      1. They could be used in a registry
      2. Developing those services within RTCA / EUROCAE will help Biruk develop their requirements
o Louis asked if there is any additional aircraft equipage anticipated
   - Biruk responded that there is no new equipage anticipated at this time
      1. However, not everyone is participating
      2. Therefore, for those that are equipped, they want to leverage the information
o Reference Slide 10
   - Eldridge noted that there are no inflight entertainment providers listed and asked if the concept is looking for airlines to bring their own communications
      1. Biruk responded that that is not necessarily the case
         i. They realize that the airlines are going to work with their individual providers
         ii. From a SWIFT perspective, they're more interested in how the stakeholders will use the service
         iii. The airlines are bringing the link providers to the table to participate, however SWIFT is not targeting the link providers specifically

7. Report of Sub-Groups:
   - SG-1: CSC and Other SC Coordination (ISRAs)
      o Reference SG1 Opening Slides – June 10, 2019
      o Steve Darr provided the SG-1 status briefing

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- o Madhu Niraula asked if this is providing weather data to the aircraft
  - Steve responded that this is accessing weather data onboard the aircraft
  - Madhu asked why they are not using ADS-C
    1. Steve responded that ADS-C has per message costs associated with it that ADS-B does not, and that ADS-B has a higher transmit frequency
       i. Rocky added that ADS-C is strictly air-to-ground, and this capability needs to be capable of air-to-air
- o Mark Libant commented that in the US, Europe, and Canada, the mandate will specify compliance with DO-260B and ED-102A
  - These items will be included in DO-260C for later compliance
  - Mark asked what the expectation is for future compliance with DO-260C
    1. Rocky responded that there is no anticipated compliance date at this time

- SG-5: FIS-B MOPS (DO-358B)
  - o Reference SG5 Opening Slides – June 10, 2019
  - o Jeremy Garber provided the SG-5 status briefing
  - o Reference Slides 3 and 4
    - Eldridge noted to Jeremy that SG-5 should be tracking to the FRAC Resolution date (September 2020)
      1. The current due date is March 2020; therefore this represents a 6-month slip in schedule
      2. Eldridge added that they can slip 3 months without a TOR revision
         i. Therefore, this would require a revision to the TOR
         ii. Karan concurred
  - o Paul Freeman noted his frustration with the lack of industry participation during the DO-358A effort
  - o John Ferrara highlighted his concern over the lack of a baseline
    - The FAA is to specify to Harris the details of their expectations
    - This puts SG-5 in a position to ensure Harris does it correctly
      1. It is important that the briefing to SG-5 by the NOTAM office is very detailed on their expectations
    - Eldridge stressed that it is not the responsibility of SG-5 to monitor Harris to ensure they're doing it correctly
      1. The SBS office has the responsibility to monitor Harris
  - o Rocky commented that official tasking to SG-5 must come from the PMC
    - And tasking from the PMC has to come through an SC-206 Plenary session
  - o Benoit asked where we are in terms of NOTAM format
    - Stephane responded that there is insight within the ICAO level
      1. There are 4 major "threads"; NOTAM being one of them
         i. They are working on a way to better characterize the NOTAMS and what they are about
            1. This is being led by individual within NAV Canada
    - Jim Mills responded that for the US FAA side, the intent is to go to the ICAO NOTAM format
      1. The DoD already follows the ICAO NOTAM format
    - **Eldridge and Jim agreed to find someone to provide a US NOTAM status briefing during the September Plenary meeting**

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- Jim added that we need to ensure that the new NOTAMS are backward compatible with the RTCA documents
    o With respect to the leadership of SG-5
        - There was a discussion regarding who would lead SG-5 following Paul Freeman departing as an industry co-chair
        - It was ultimately decided during the Closing Plenary that:
            1. Jeremy Garber and John Ferrara will serve as SG-5 co-chairs
            2. Amanda Hoprich will continue to support SG-5 as the new document is being developed

- WG-76 and SG-6: MASPS (DO-364A)
    o Reference SG6 Opening Slides – June 10, 2019
    o Eldridge provided the SG-6 status briefing
    o Eldridge stressed that they are looking for a European replacement to co-chair WG-1 under SG-6
    o They are also looking for a European member to co-chair WG-3 under SG-6
    o **Louis Bailey agreed to look for a CDM point of contact / SME to work with Rocky on his CDM efforts**
    o Rocky noted that WG-3 does not have a well-defined objective at this time
        - The TOR is very broad
        - They need to define the application that the cockpit will use to participate in CDM
    o Eldridge noted that he is working on the internal process to get FAA employees to the September Plenary in Toulouse
    o Tom Evans asked if there is any additional input from the European side on participation in SG-6 activities
        - Alex responded that they are hoping for a greater participation by Europe in the future

8. Workplan for WG-76 Meeting 52/SC-206 Meeting 56
- This item was discussed during Agenda Item 3 above

9. Adjourn
The Opening Plenary adjourned at approximately 1130 EDT on Monday, June 10th

Friday, June 14th Closing Plenary

The Closing Plenary session convened at approximately 0830 EDT on Friday, June 14th.

1. Welcome and Opening Remarks: Host, RTCA/EUROCAE, and Chairmen
    - Reference <u>Leadership Closing Slides – June 14, 2019</u>
    - Rocky thanked AOPA for hosting the meeting this week

2. Attendee Introductions
    - Rocky Stone, Co-chair   United Airlines
    - Tom Evans, Co-chair   NASA
    - Joe Bracken, Secretary   AvMet Applications, Inc.
    - Eldridge Frazier   FAA, Government Authorized Representative
    - Moin Abulhosn   FAA
    - Louis Bailey*   The Boeing Company
    - Bill Carson   The MITRE Corporation
    - Stephen Darr   Dynamic Aerospace
    - Mark Eden*   Air Line Pilots Association (ALPA), Int'l
    - Alexander Engel   EUROCAE
    - John Ferrara*   Consultant
    - Tammy Flowe   FAA Aviation Weather
    - Jeremy Garber*   Harris
    - Izabela Gheorghisor   MITRE
    - Karan Hofmann*   RTCA
    - Amanda Hoprich*   AvMet Applications, Inc.
    - Ed Johnson   FAA
    - Oliver Krueger*   Deutsche Flugsicherung (DFS)
    - Mark Libant   NAV Canada
    - Matthew Lug*   USAF
    - Tom Mai*   FAA
    - Jim Mills   HQ USAF
    - Benoit Morizet   Airbus Operations
    - Mark Phaneuf   Air Line Pilots Association (ALPA), Int'l
    - Tim Rahmes*   The Boeing Company
    - Boris Resnick*   IANS
      *Remote

3. Industry Coordination
    - EUROCAE WG-104 – European SWIM
        o Reference <u>EUROCAE WG-104 SWIM Activities</u> slide presentation
        o Oliver Krueger provided the European SWIM briefing
        o Eldridge asked the difference between EUROCONTROL and EUROCAE
            - EUROCONTROL is responsible for the safety of air navigation in Europe
                - This is an ATC-related organization
                - EUROCONTROL has its own control center and manages airspace traffic in Europe

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- EUROCONTROL develops specifications in response to regulatory requirements
- SWIM is a subset of work
- EUROCAE is a standards development organization
o Reference Slide 4
  - Louis Baily asked if Oliver could provide some insight into why EUROCAE created 3 separate documents
    - These documents are applicable to issues raised within SG-6
    - Oliver responded that there was no specific reason why the 3 documents were broken out
    - The 2nd document could be used by other applications
    - However, all could be included in one specification if necessary
  - Louis added that there is a question within SG-6 as to whether to combine or separate out the material within the MASPS
o Rocky Stone asked if there is any US participation in WG-104 or EUROCONTROL in general
  - Oliver responded that there are no attendees outside of Europe
o Eldridge commented that the SWIM service interacts with the information source for cockpit, so there is an impact
  - Eldridge asked if Europe is considering an air-ground service similar to the US
    - Oliver responded that they are not working air-ground service
    - They only have the means to work a ground-ground service
    - The operations should be aligned, but that is on the ICAO level
      i. There is nothing that EUROCAE can do
  - Eldridge asked if there is any research being done with respect to an air-ground system
    - Oliver responded that he has not been involved in any air-ground system development work
    - **Oliver agreed to provide contacts of who may have done air-ground research**
  - A question was asked if there is ongoing harmonization with ICAO
    - Oliver responded in the affirmative
  - Oliver commented that he read a paper from WG-76 where the various services were described and asked if SC-206 plans to define the SWIM services
    - Boris Resnick responded that they are trying to keep the WG-76 services compatible with the SWIM service
      i. Rocky noted that the Service Descriptions that SC-206 is working are primarily air-ground
        1. SWIM is an information sharing service and has to be compatible with SWIM
        2. Some services may not involve SWIM, but will "touch" SWIM
      ii. Rocky added that SC-206 is primarily dealing with information content
    - There is another profile that describes the air-ground technology
o **Oliver agreed to provide a package of relevant docs from EUROCONTROL**

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- Oliver will provide the information to Alex Engel and Alex will post to the EUROCONTROL and RTCA Workspace
  o **Oliver also agreed to provide a copy of his slide presentation**

4. SG5 Leadership
   - Rocky commented that Paul Freeman had to step down as co-chair of SG-5 due to a new position within Harris
     o This created an opening in the leadership of SG-5
     o Rocky noted that it is within the purview of the SC-206 leadership to appoint Subgroup leaders
     o After Paul's departure, Jeremy Garber (Harris) took over and has been doing an outstanding job of co-chairing with John Ferrara
     o The SC-206 leadership has decided that SG-5 will now be led by John Ferrara and Jeremy Garber
   - SG-5 will continue working on DO-358B
     o However, there is a slight "pause" while SG-5 awaits direction from the FAA

5. Report of Sub-Groups
   - SG-1 - Reference <u>SG1 Closing Slides – June 14, 2019</u>
     o Ed Johnson provided the briefing
     o There were no issues raised related to the SG-1 briefing

   - SG-6 – Reference <u>SG6 Closing Slides – June 14, 2019</u>
     o Eldridge Frazier provided the initial SG-6 remarks
     o Reference Slide 2
       - Steve commented that the arrows from 2-3 should be bi-directional
       - Eldridge agreed to change the arrows in the graphic
     o Reference Slide 4
       - Eldridge commented that SG-6 is 3 months behind schedule
       - Eldridge stressed to the participants of WG-1 and WG-2 that they need to support Tammy Flowe and Jim Mills to get something on paper so that bi-weekly meetings can be spent editing text
         - WG-1 and WG-2 need to develop "straw man" documents for each of their Service Descriptions
         - These WG's should use completed SDs as templates
         - Eldridge would like to have all of the "blue" documents "green" by September
         - *For reference, note the following document status color-coding*
           i. *Black – Done*
           ii. *Green – Mature*
           iii. *Blue – Needs Revision*
           iv. *Red - Needs Input (<70%)*
       - Eldridge anticipates that by September, he intends to show plans for developing DO-364A
         - There is a lot of pressure on Bill Carson and Isabela Gheorghisor to develop the OSA/OPA
           i. However, they cannot begin until the documents are "black"

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- Regarding the Collaborative Decision Making (CDM) Service Description portion of the document, Rocky indicated that he is working that effort
  - However, he cannot meet his deadline until early December
- o With respect to WG-1, Jim Mills requests moving his bi-weekly meetings to another day
  - Jim agreed to check the calendar and update the WebEx information as necessary
  - Jim reiterated and stressed that he is in need of a European counterpart to co-chair WG-1

6. Future Meetings, Plans, and Dates
   - Eldridge commented that it is difficult for the FAA representatives to travel internationally twice in same year
     - o Therefore, the 2020 dates and meeting venues need to be discussed further
   - **Alex Engel agreed to look into the availability of the EUROCAE facility in September 2020**
     - o Alex noted that the week of September 14th is unavailable at EUROCAE
   - **Tom Evans agreed to look at the availability of the NASA facility in Houston to host the December 2020 Joint Meeting**
   - **Reference the March 2020 meeting, Alex agreed to coordinate with Karol Molnar for the week of March 2nd**
   - Reference the June 2020 meeting, **Eldridge and Tammy agreed to coordinate with NCAR (Boulder) for the week of June 8th**

Meeting Dates	Locations (Hosts)	Releases / Approvals
September 9-13, 2019	Herndon, VA (Harris)	SG-5: DO-358B
	Toulouse, France (Airbus)	Joint WG-76/SC-206 Plenary (SG-1 & SG-6)
December 9-13, 2019	Phoenix, AZ (Honeywell)	Joint WG-76/SC-206 Plenary (SG-1 & SG-6)
		SG-5: DO-358B
March 2020	Prague, Czech Republic (Honeywell)	Joint WG-76/SC-206 Plenary (SG-1 & SG-6)
	US (?)	SG-5: DO-358B
June 2020	Denver, CO (Frontier Airlines? or United Airlines?) or Boulder, CO (UCAR/NCAR?)	Joint WG-76/SC-206 Plenary (SG-1 & SG-6) SG-5: Approve DO-358B for FRAC release
September 2020	Europe (?)	Joint WG-76/SC-206 Plenary (SG-1 & SG-6) Approve DO-364A for FRAC Release
	US (?)	SG-5: DO-358B FRAC resolution review/Plenary approves release of DO-358B to PMC
December 2020	Paris (EUROCAE)	DO-364A FRAC Resolution Review / Plenary approves release of DO-364A

Note: Items in RED font were proposed changes discussed during the Closing Plenary session

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7. TOR (Terms of Reference) Discussion
- Tom Evans made the comment that DO-358B and DO-364A are looking to slip and may have to revise their dates
  - Eldridge noted that SG-6 is already 3 months behind on DO-364 and anticipate needing another 3 months
    - Therefore, they are going to have to request a 6 month slip to June 2021
  - Jeremy Garber commented that DO-358B will slip 3 months
    - March 2020 will now become June 2020
    - Karan stressed that the subgroups need to ensure the dates are realistic
  - Karan noted that SC-206 will have to submit TOR changes by the September opening plenary for the PMC
    - Karan will add this to the September Plenary agenda
  - Tom Evans commented that SC-206 is thinking of adding UAS/UAV datalink requirements, and will need participation from industry
    - Tom added that SC-206 will work this during the next Plenary
    - Will need participation from industry
    - Tom – will work this at the next plenary
    - **Amanda was asked to add a TOR discussion to the September Plenary agenda**

8. Action item review
- Action Item 329 remains Open
- Action item 330 remains Open
- Action Item 334 remains Open
- Action Item 335 can be Closed
- Action Item 339 remains Open
  - This will be closed at the September Joint Meeting
- Action Item 340 is Open
- Action item 341 can be Closed

#	Owner	Action	Date	Due Date	Status
329	Karan Hofmann	Provide copies of harmonized MASPS drafting guides to SG-6 when complete			Open Guide not approved yet, but final "FRAC" version forwarded
330	Steve Young	Identify SME speaker to present material on UAS government and industry initiatives during the June or September 2019 Plenary meetings. Steve will also raise this issue within the other WGs he's involved in		September 2019	Open
334	Stephane Dubet	Stephane indicated that he could share PANS / EUROCONTROL Specifications, WG-104 deliverable(s), and SESAR R&D research outputs as related to SWIM efforts	March 2019	October 2019	All complete except PANS, which will be complete in October

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339	Eldridge Frazier	Contact Biruk Abraham to obtain weblink to the SWIM Uses Cases (collaboration of the information) referenced in his June 2019 SWIM briefing material	June 2019		Open
340	Eldridge Frazier / Jim Mills	Arrange for a US NOTAM status briefing for the September Plenary	June 2019	September 2019	Open
342	Alex Engel	Alex agreed to look into the availability of the EUROCAE facility for the September 2020 Joint Meeting	June 2019	Sept 2019	Open
343	Tom Evans	Tom agreed to look at the availability of the NASA facility in Houston to host the December 2020 Joint Meeting	June 2019	Sept 2019	Open
344	Alex Engel	Alex agreed to coordinate with Karol Molnar for the availability for Honeywell (Prague) to host the March 2020 Joint Meeting,	June 2019	Sept 2019	Open
345	Eldridge Frazier Tammy Flowe	Eldridge and Tammy agreed to coordinate with NCAR (Boulder) to host the June 2020 Joint Meeting	June 2019	Sept 2019	Open

9. Other business
   - There was no New Business identified during the Closing Plenary session

10. Adjourn
    The Closing Plenary session adjourned at approximately 1130 EDT on Friday, June 14th.

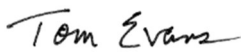   CERTIFIED as a true and accurate summary of the meeting.

    Joe Bracken

    Joe Bracken, SC-206 Secretary   Benoit Morizet, EUROCAE WG-76 Secretary

    Rocky Stone

    Rocky Stone, SC-206 Co-chair   Boris Resnick, EUROCAE WG-76 Chair

    Tom Evans

    Tom Evans, SC-206 Co-chair   Alexander Engel, EUROCAE Technical PM