

**Summary of the 51st Meeting
Special Committee 206
Aeronautical Information Services (AIS) and Meteorological (MET) Data Link Services**

Executive Summary

The 51st meeting of SC-206 was held June 11-14, 2018, at the Aircraft Owners and Pilots Association (AOPA) headquarters in Frederick, Maryland.

- **SG-1 — Aircraft-based Observation (AbO) Requirements**
 - SG-1 (WxS SG) continues to work with the Combined Surveillance Committee (CSC) and has been focused on:
 - Working Paper development
 - Conducting periodic teleconferences
 - Coordinating both technically and programmatically
 - The CSC continues to work on the following Working Papers
 - Winds
 - Icing Status and Anti-ice
 - EDR
 - Gross Weight
 - Static Air Temperature
 - Emitter Category
 - Manned versus Unmanned Operations

- **SG-5 — DO-358A (MOPS for FIS-B via UAT)**
 - SG-5 continues to make progress on refining the language of the draft FIS-B MOPS (DO-358A) and closing pre-FRAC comments
 - SG-5 continues to discuss the inclusion of Multi-Radar Multi-Sensor (MRMS) reflectivity mosaic inputs to Regional and CONUS NEXRAD into the DO-358A document
 - SG-5 continues to discuss the schedule for inclusion of, two new FIS-B products: Temporary Restricted Area (TRA) and Temporary Military Operations Area (TMOA) into a future version of DO-358A

- **Merging MASPS with the WG-76 SPR**
 - Rocky opened the discussion by stating that he, Eldridge, and Bill Carson visited with WG-76 last week
 - Rocky asked for input from the SC-206 members (i.e. if it is a good idea to rejoin)
 - Rocky added that he feels it is a good idea to have one set of requirements
 - If the Committee chooses not to rejoin, WG-76 will continue on their own and generate a separate document that may or may not refer to DO-364
 - Eldridge concurs with Rocky and stated that the initial MASPS document was developed over a 5-year process
 - WG-76 concurred that DO-364 is a good template for a services MASPS and a good starting point for the WG-76 services

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- Eldridge feels there should be a global set of information; especially from a weather perspective
 - The Committee concurred
 - There were no dissenting positions related to rejoining with WG-76
- **SC-206 TOR update discussion**
 - The current SC-206 Terms of Reference (TOR) was provided to the membership for review and comment early in the week
 - The intent was to include language to address:
 - Future FIS-B MOPS version to address MRMS, TRA, and TMOA products
 - SC-206 rejoining with WG-76 to develop a revised and globally acceptable MASPS (DO-364A)
 - Working with the CDM community to define a minimum set of requirements
 - Suggested revisions were discussed amongst the Committee members during the closing Plenary session and an agreed upon TOR was developed that will be presented to the RTCA's Program Management Committee (PMC) the following week
- **Next SC-206 meetings:**
 - September 17-21, 2018, at RTCA in Washington, DC
 - December 3-7, 2018, at Harris Facility in Melbourne, FL
 - March 2019, at RTCA (Washington, DC) and Europe (possibly a split Plenary with SG5 in DC and SG6 in Europe)
 - June 2019, at RTCA in Washington, DC

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

The 51st meeting of SC-206 was held June 11-14, 2018, at AOPA headquarters in Frederick, Maryland.

Presentations are posted at:

https://workspace.rtca.org/apps/org/workgroup/sc-206/documents.php?folder_id=7715

Monday June 11th – Opening Plenary

The Opening Plenary session convened at approximately 1300 on Monday, June 11th.

1. Opening Remarks:

- RTCA
 - Karan Hofmann provided the RTCA portion of the opening remarks
 - Topics included:
 - Anti-trust
 - Proprietary policy
 - Membership policy
 - Karan noted that there will no longer be RTCA meeting announcements in the Federal Register due to RTCA becoming an independent Standards Development Organization (SDO)
- Host
 - Rune Duke (AOPA) gave a brief overview of the facility and meeting space
- Chairman
 - Rocky Stone opened the meeting at 1300 noting that this is the 51st SC-206 Plenary session
 - Rocky noted that he intends to end today's Plenary session by 1500 with a very full agenda
 - Rocky stated that he, Bill Carson, and Eldridge Frazier attended last week's WG-76 meeting
 - The outcome of those discussions will be discussed later in the meeting
 - SC-206 has received updates from the SBS office regarding the work SG-5 is doing
 - There will also be a discussion regarding the future of SC-206

2. Attendees / Introductions

- | | |
|--------------------------|---|
| • Rocky Stone, Co-chair | United Airlines |
| • Tom Evans, Co-chair | NASA |
| • Joe Bracken, Secretary | AvMet Applications, Inc. |
| • Moin Abulhosn | FAA Aircraft Certification |
| • Bill Carson | The MITRE Corporation |
| • Stephen Darr | Dynamic Aerospace |
| • Rune Duke | Aircraft Owners and Pilots Association (AOPA) |
| • Alicia Fernandes | Mosaic, ATM |
| • John Ferrara | Consultant |
| • Eldridge Frazier | FAA Aviation Weather |
| • Paul Freeman | Harris |
| • Marc Henegar | Air Line Pilots Association (ALPA), Int'l |
| • Karan Hofmann* | RTCA |
| • Ed Johnson | FAA |
| • Clark Lunsford | The MITRE Corporation |
| • Jim Mills | HQ USAF |

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- Mark Mutchler* FAA Policy and Innovation
 - Pat O’Connell* SAIC
 - Mark Phaneuf Air Line Pilots Association (ALPA), Int’l
 - Frances Prott AvMet Applications, Inc.
 - Tim Rahmes* The Boeing Company
 - John Steventon* FAA
 - Roger Sultan Air Line Pilots Association (ALPA), Int’l
 - Dave Hubner Sirius XM
 - Matthew Luck* NASA
- *Remote

3. Review and approval of meeting agenda

- The meeting agenda was approved

4. RTCA SDO implications (Hofmann)

- Reference the Independent SDO Briefing to Committees briefing slides
- Karan noted that on May 30th, the Charter with the FAA expired
 - RTCA chose to become an independent SDO
- The Special Committees will no longer have a Designated Federal Officer (DFO)
 - DFOs will now be referred to as a Government Authorized Representative (GAR)
 - By being a “representative” permits the FAA to participate
- Plenary sessions will no longer be posted in the Federal Register
 - Future postings will be on the following sites:
 - RTCA website
 - AIN Online
 - Avionics Electronics Association
- FACA reports will no longer be required
- The PMC will continue to oversee the Special Committees (SCs)
 - The FAA will retain a seat on the PMC
 - All existing schedules and documents will remain
- RTCA will continue to look to the FAA in the future to determine the need for new SCs, when applicable
- RTCA will continue to run voluntary consensus standards bodies
- RTCA encourages the FAA to reference RTCA Standards in Technical Standard Orders (TSOs) and Advisory Circulars (ACs)
- In the future, RTCA anticipates a seamless transition for the SCs
 - All document and schedules will be retained
 - Support to ICAO will continue
 - Interaction with EUROCAE will continue
- The changes highlighted in this presentation were implemented on May 30th
 - The RTCA website has been updated
 - The FAA has joined RTCA as a member and embraces the SDO concept
- Questions
 - Rocky asked if there are other SDOs within the industry
 - SAE is an example of another SDO
 - Karan responded that the RTCA board felt it was in the best interest of RTCA to become an SDO
 - Tim Rahmes asked if this SDO structure is more or less in line with EUROCAE

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- Karan responded that this is more in line
- Eldridge asked if the people representing the FAA on the PMC will be the same as in the past
 - Karan responded that, as far as she knows, there will be no changes

5. Industry coordination

- Dr. Alicia Fernandes (Mosaic ATM) provided a Trajectory Based Operations (TBO) Presentation
- Reference the Taking Trajectory Based Operations to the Next Level: Management by Trajectory briefing slides
 - Dr. Fernandes stated that her briefing will focus on the NASA perspective of TBO (she will not be speaking on behalf of the FAA's TBO office)
- Questions
 - Reference Slide 7
 - Rocky stated that he would like to get more information on how tight the constraints are
 - Dr. Fernandes responded that it depends on the tolerances around the aircraft (equipage or aircraft capability)
 - i. They try to avoid a mixed equipage condition
 - ii. Tolerance have to reflect the aircraft's capabilities
 - iii. For less capable equipped aircraft, the constraints have to be increased
 - Marc Henegar stated that the Trajectory Constraint is the published procedure and the Trajectory Description is the negotiated intent
 - Marc expressed concern of free flight in vertical range and the potential inefficiencies
 - Dr. Fernandes responded that the intent allows the controller to bound the airspace better
 - Marc added that the pilot intent becomes a restriction for that flight
 - i. Dr. Fernandes responded that depending on the airspace need, they have to determine where a constraint is a restriction
 - ii. Changes to the intent requires a negotiation; which must be part of a good negotiation process
 - iii. At end of negotiation, have to have something the FMS can execute
 - Dr. Fernandes stated that one issue they'd like to solve is keeping the flight on a constrained flight in the presence of weather
 - Reference Slide 9
 - Dr. Fernandes noted that they cannot negotiate away metering constraints, but could negotiate a new crossing time
 - Reference Slide 10
 - Dr. Fernandes noted that they want to give the pilot additional degrees of freedom in negotiations to show other options through a more automated negotiation structure
 - Reference Slide 12
 - Rocky asked how "nimble" of a system is this intended to be
 - Dr. Fernandes responded that CPDLC standard is 2 minutes

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- i. The system must be able to affect changes sooner than 2 minutes
 - Marc asked where the pilot would be engaged in the automated negotiation process in a compressed timeframe
 - Dr. Fernandes responded that they are working on a prototype of an automated negotiation function
 - i. They are trying to determine which parts of the negotiation does the human need to be involved in, and
 - ii. How in the loop does a pilot / controller need to be at more long term constraint determinations
 - Marc noted that left and right negotiations are one thing, but multiple aircraft interactions on a descent clearance is his concern
 - Dr. Fernandes responded that they are looking to conduct more of the negotiation depicted on the left side of Slide 12 early on
 - i. There is no intent to remove the communications depicted on the right side
- Rocky stated that Dr. Fernandes has given the SC-206 team ideas on what could work and what Standards would be necessary
 - Rocky added that ConOps perspective is intriguing and that their concept offers a lot of promise
 - However, there is still a lot to be learned
- Ed Johnson stated that with respect to the conservative nature of the constraints, you have to take constraints that you can reliably meet; but this may not be an optimized system
 - Dr. Fernandes responded that they need to find balance between constraints and optimization
 - They think they are able to move towards less restrictive constraints
 - They don't want to reduce safety in the system, nor do they want to overly constrain the system

6. Discussion on results from meeting with WG-76

- Rocky opened the discussion by stating that he, Eldridge, and Bill Carson visited with WG-76 last week
 - After doing DO-324/ED-175, WG-76 went off on their own
 - And SC-206 worked the MASPS document (DO-364) with its various services
 - WG-76 started with 17 services and wanted to write a MASPS around those services
 - WG-76 is currently looking to get more specific and would like to jointly produce an updated MASPS
 - Rocky noted that this does not need to be a rewrite of our MASPS
- Rocky wants to get a sense amongst the SC-206 members if it is a good idea to rejoin
 - Rocky added that he feels it is a good idea to have one set of requirements
 - However, if SC-206 chooses not to rejoin, WG-76 will continue on their own and generate a separate document that may or may not refer to DO-364
- Eldridge concurs with Rocky and stated that the initial MASPS document was developed over a 5-year process
 - The MASPS is a “systems” MASPS versus an “information services” MASPS
 - WG-76 concurred that this is a good template for a services MASPS and a good starting point for the WG-76 services
 - However, they need input from the US side

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- Eldridge feels there should be a global set of information; especially from a weather perspective and he intends to raise the issue with his management / chain of command to support the effort
- Bill Carson commented that the work that WG-76 was doing last week sounds a lot like what SC-206 went through in developing DO-364
 - However, Bill is not sure how complete or in depth they are at this point
 - WG-76 does have some of the textual material around their assumptions and methodology, but that textual material is not complete
 - If this would become a joint document, ownership of the materials developed would be equal between WG-76 and SC-206
- Rocky added that it is going to take a lot of work to form the document and make it useful
 - If there is no input from the US, WG-76 will continue and publish their own document
 - Therefore, Rocky urges the SC-206 membership to join as a group
 - RTCA is a voluntary group, but sponsors need to be convinced to support the effort
 - Ed commented about the inclusion of aircraft based observations (AbO)
 - Rocky added that WG-76 does not want to include their own AbO service and will defer to what's already in the MASPS regarding AbO
 - Rocky envisions taking what is in the existing DO-364 document and including it as is
 - Bill added that Boris Resnick raised the issue of AbO and SC-206 would have an issue with reopening the AbO issue or redoing that work
- Marc Henegar commented that he is not sure how this would be funded
 - Marc noted that ALPA would support rejoining and agrees that having a global Standard would be beneficial
- Ed asked if there is an issue of delaying the issuance of the document given that the revised ADS-B and Mode S Transponder MOPS is due to be published in 2019
 - Rocky responded that if the group decides to rejoin, DO-260C will be published before this joint MASPS
 - Eldridge added that Boris indicated it would take at least 7-8 meetings to complete the joint document
 - That would include four overseas trips over the next 2 years
 - Johnson – issue if there is delay in issuance of the document as MOPS are due in 2019
- Marc asked if it is possible to get copies of the meeting notes from the WG-76 meetings over last several sessions
 - Rocky responded that he's not sure if we have notes from WG-76 meetings at the level of detail that would help
 - **Karan noted that she has access to the WG-76 Sharepoint site and will download whatever notes are available and post them to the SC-206 Workspace**
- Marc asked when this effort would potentially begin
 - Rocky responded that we first need the PMC to task SC-206
 - The PMC will not task SC-206 unless they feel it is a good idea
 - Karan added that we need the PMC to make the decision to include the effort in the SC-206 Terms of Reference (TOR)
 - The PMC meeting is next week, and there is an SC-206 placeholder on their agenda
 - The next PMC meeting after next week will not be until September

Summary of the 51st meeting
RTCA SC-206 – AIS/MET Data Link Services

- **Rocky added that he would like to have TOR revisions on this topic drafted by the end of this week to present to the PMC next week**
- Tim Rahmes stated that he is looking at the WG-76 “burn down” document sent in early-May (Reference the WG-76 Burn Down Status slide)
 - There are three areas on that “burn down” that are still red
 - Bill noted that he did not realize the “Emergency Diversion” service was postponed
 - Tim added that it is unclear what items marked as “postponed” actually means
 - Bill responded that he thought that those may not be covered at all; however there is no definition of “postponed”
 - Tim concurred with proceeding to rejoin WG-76
- Moin Abulhosn stated that he concurs with having one common document
- Mark Mutchler stated that the MASPS was originally developed to identify minimum performance standards and concurs that a global document is a good idea
 - Mark added that he is concerned that we’ll go through the 17 services and minimum performance standards will not be identified
 - If that occurs, that will result in us rewriting our MASPS
 - Mark added that his management will probably not support him on international travel
 - Bill noted that adding the WG-76 services would help fill out many of the other “cells” in Bill’s previously briefed service matrix
 - Bill added that adding the WG-76 services may also change the derived requirements in the main body of DO-364 (excluding AbO)
 - This would be a positive in that the requirements would be based off a broader set of services
- Eldridge commented that WG-76 is very eager for our input and assistance and very open in developing their document
 - SC-206 brings a great skill set and experience to building a joint document
- Tim asked an approximate date when the Kickoff meeting would be held
 - Rocky responded probably sometime in September 2018
 - However, WG-76 would have to come to the US first
 - Eldridge added that the WG-76 Technical Advisory Committee (TAC) is meeting in August and they are presenting this to their TAC for approval
- Karan stated that she has downloaded last year’s WG-76 meeting summaries and posted them to Workspace
 - **Karan agreed to send the [link](#) to everyone via email**
- **Rocky reiterated that he would like to have draft TOR language drafted between now and Thursday to discuss during the Thursday closing Plenary**
- Eldridge informed Karan that he will be presenting a draft letter to SG-5 for their review tomorrow and should be able to also include SG-5 TOR change language

7. SG-5 tasking

- Reference the SG-5 draft letter, Eldridge briefed the following:
 - The SBS office wants SG-5 to include TRAs and TMOAs
 - Harris presented to the SBS Office the concept of replacing WSI provided NEXRAD radar inputs with MRMS-based NEXRAD inputs
 - These new / modified products should be added to a future DO-358 update
 - SG-5 needs to evaluate these three changes and determine a schedule as to when to incorporate them into the document
 - Paul Freeman noted that MRMS is something Harris is currently working on

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- However, Harris is not currently working on TRAs or TMOAs, therefore the timing of incorporating them would come after MRMS
- Rocky commented that a “best estimate” of timeframe for right now is good enough
- John Ferrara noted that it is difficult to give work estimate for the other two products (TRAs and TMOAs) without a baseline
 - Bill responded that there is a lot of “wobble room” allowed in the TOR language
 - Paul added that SG-5 will discuss the possible schedule over the next few days
- Moin noted that if we delay the DO-358 document, the six new products will be ready this summer
 - Bill responded that SG-5 will discuss the obstacles over the next few days and how to alleviate those obstacles
- Eldridge commented that the vendors have had an opportunity to participate in SG-5; while Garmin has been the only vendor participant
- Rocky closed the discussion by stating that SG-5 has the next two days to bring back a proposed implementation schedule to be included in the TOR by Thursday
- **Frances agreed to post / distribute the most recent TOR for review and comment by the team**

8. Subgroup status / goals for the week

- SG-1
 - Steve Darr provided the update and plans for the week for SG-1
 - Reference the 2018-06-11 SG-1 Plenary Update briefing slides
 - Mark Phaneuf asked who is developing the working papers
 - Steve responded that the working papers are assigned to various members of the Combined Surveillance Committee (CSC) work groups
 - Some of the CSC members are members of SC-206
- SG-5
 - Paul Freeman provided the update and plans for the week for SG-5
 - Reference the SG-5 Working Session Agenda June 11-14 2018 briefing slides

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

Thursday June 14th – Closing Plenary

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

1. Opening remarks

- a. N/A

2. Attendee's introductions

- a. Rocky Stone, Co-chair United Airlines
 - b. Tom Evans, Co-chair NASA
 - c. Joe Bracken, Secretary AvMet Applications, Inc.
 - d. Moin Abulhosn FAA Aircraft Certification
 - e. Louis Bailey The Boeing Company
 - f. Bill Carson The MITRE Corporation
 - g. Stephen Darr Dynamic Aerospace
 - h. Rune Duke AOPA
 - i. John Ferrara* Consultant
 - j. Eldridge Frazier FAA Aviation Weather
 - k. Paul Freeman Harris
 - l. Karan Hofmann RTCA
 - m. Ed Johnson FAA
 - n. Clark Lunsford The MITRE Corporation
 - o. Jim Mills HQ USAF
 - p. Mark Mutchler* FAA
 - q. Frances Prott AvMet Applications, Inc.
 - r. Tim Rahmes* The Boeing Company
 - s. Boris Resnick* EUROCAE WG-76
 - t. Roger Sultan* Air Line Pilots Association, Int'l
- *Remote

3. Review and approval of meeting agenda

- a. The meeting agenda was approved

4. Approval of previous meeting minutes

- a. The minutes of the previous SC-206 Plenary (March 15, 2018 at Harris facility in Melbourne, FL) were approved

5. Sub-Group Reports

- a. SG-1: CSC and Other SC Coordination (ISRAs)
 - o Steve Darr provided the SG-1 Closing Plenary update
 - o SG-1 worked on CSC deliverables due next week
 - o Steve provided an overview of his presentation for next week's CSC meeting
 - The draft slides of the SG-1 CSC briefing will not be posted to Workspace at this time
 - o Steve gave an overview of the June CSC meeting deliverables
 - For each ADS-Wx parameter, they will provide
 - Data range and resolution
 - Recommended encoding and register loading requirements
 - Update rate
 - Reception range
 - o Prior to the June CSC meeting, SG-1 will:

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- Finalize parameter specific working papers
 - Update non-provisional parameters working papers
 - After June 2018, SG-1 will:
 - Integrate the message set and register requirements
 - Develop report generation working papers
 - SG-1 will continue to coordinate with the weather community (e.g. FAA, NOAA/NWS, AMS, WMO), other Standards bodies / regulators (e.g. EUROCAE, ICAO, EUROCONTROL, FAA), and operators (US and European)
 - Steve noted that Sections 2 and 4 will be the primary descriptive sections in the MOPS
 - Questions
 - Eldridge asked Steve if they've spoken with the CSS-Wx personnel
 - Steve responded that they were not able to get Alfred to participate in the last discussion
 - Eldridge noted his concern that, based upon what SC-206 is working on, we need CSS-Wx input and approval to include the information
 - i. Eldridge agreed to work within the FAA to get CSS-Wx engaged**
 - Steve noted that there is evidence that simply getting AbO data improves NWP model performance
 - Tom Evans commented that Karan posted the WG-76 Special Air Report (SAR) service and asked if that causes SG-1 a problem
 - Steve responded that if the SAR is a PIREP, there are no issues
 - i. However, if a SAR is an automated PIREP, that may cause a problem**
 - **Steve agreed to look at the WG-76 SAR document**
- b. SG-5: FIS-B MOPS**
- Paul Freeman provided the SG-5 Closing Plenary update
 - Reference the SG-5 Closing Plenary Update slides
 - This week SG-5:
 - Went through the pre-FRAC document comments
 - Reviewed the test material
 - Reviewed the MRMS project / schedule
 - i. The MRMS effort is relatively short**
 - Reviewed all should / shall statements in the draft MOPS
 - Closed several action items
 - Generated high level timeline of future work
 - SG-5 consensus this week was to:
 - Include MRMS in the DO-358A effort
 - Include TRAs and TMOAs in the DO-358B effort
 - DO-358A will also include the six new products that Harris will begin broadcasting in the next few weeks
 - John noted that there are two items on the list that are important
 1. Daily NOTAMS and how they are coded in the uplink
 2. New icing product and how it is coded in the global blocks
 - John commented that the icing product tends to overstate the intensity
 - SG-5 needs Program Office representation on a telecon regarding how to handle the issue

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- Rune Duke asked what the impact is of the daily NOTAM issue
 - John asked if Rune was referring to the impact to the ground station or the document
 - i. Rune responded with respect to the end user
 - John responded that the user would see TRA's being active when they are not
 - i. Jim Mills added that you could lose the end of the NOTAM (by truncation)
- o Rocky asked Paul if, for the purposes of the TOR revisions, SG-5 is considering proposing two version of the MOPS
 - Paul responded in the affirmative
- o Eldridge noted that, from a program management perspective, we still need a MOPS "burn down" chart to show the status of the document
 - **Paul concurred and agreed to develop a "burn down" chart**

6. Industry Coordination

a. CDM

- o Rocky stated that he has had an email conversation with the CDM Future Concepts Team and that they have expressed interest
- o Rocky noted that when he approached the CDM Steering Group in January, there was interest, but not excitement of the idea at the time
 - There was acknowledgement that CDM needs to go there
- o Rocky added that the CDM community could establish their own requirements if they wanted, but Rocky is offering them the services of SC-206 in developing a minimum set of requirements
- o Rocky's initial proposal was, if a minimum requirement existed, that the operators could get an exemption that was too broad and not a specific enough suggestion
 - CDM has asked Rocky to come back with a more specific suggestion
 - Therefore, Rocky is soliciting input from the SC-206 membership
- o Rocky feels that there will be continued interest from the CDM community and that it is worth including in the SC-206 TOR
- o Questions:
 - **Moin agreed to speak with the head of Flight Standards to get input**

b. FPAW (Darr)

- o **Steve Darr agreed to forward the FPAW information being provided to the American Meteorological Society (AMS) regarding his upcoming FPAW panel**

7. Decision on TOR Changes / Rejoining with WG-76

a. TOR Changes

- i. Rocky noted that the PMC meeting is one week from today
- ii. The PMC controls the work that SC-206 conducts, but we get to suggest to the PMC what our activities could be
- iii. Karan noted that this will be a good PMC meeting to present to as it will be their first meeting as an SDO
- iv. The team agreed to walk through the recommended TOR changes, finalize the language, and achieve consensus (Note: the TOR document was modified in real time and will be formatted appropriately following the Plenary meeting)
 - 1. Steve Darr asked if this revised TOR is Revision 13 or 14

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

- a. Karan responded that the baseline being used to include revisions was Revision 13
2. Steve recalled that paragraph 1 of the TOR was taken verbatim from a NextGen statement
3. Reference DO-358B: Rocky asked if SC-206 wants to propose a DO-358B as part of this TOR revision
 - a. Paul Freeman noted that not including a planned version “B” may result in questions about the other two products
 - b. It was decided to include DO-358B as a planned document in this TOR
4. Reference the text associated with DO-364: Jim Mills asked if there is enough AIS focus within our TOR
 - a. The consensus was to make the TOR consistent and reference AIS any time MET is mentioned
 - b. Bill Carson noted that the WG-76 services include several AIS-related services
5. Reference rejoining with WG-76
 - a. It was noted that WG-76 is revising their TOR in August
 - b. Boris concurred with the revisions to the Envisioned Use of Deliverables paragraph
 - c. Tim asked if there is some discussion that needs to take place with respect to consistencies / errors in some of the existing standards documents and how some of the material is downlinked where there is not complete agreement
 - i. Tim added by asking if we need to include those items somewhere in the TOR
 1. Rocky responded that the TOR, as written, allows us to open up any area covered within the TOR
 - ii. Boris noted that any service that is globally applicable would be acceptable to WG-76
 - iii. Tim added that he is concerned with the input requirements related to potentially new sensors (i.e. onboard Wx radar, ice crystal, f-factor, etc.) and the downlinking of airborne observations
 - iv. Steve Darr commented that some of the information that Tim cited as an example is information that is sensed on the aircraft; however the CSC does not know yet as to how that information would be an input
 - v. Rocky responded that Tim is talking about things that have not been defined yet and should not be discussed within the CSC effort
 1. The wording in the TOR would permit SC-206 to look at those things
 - d. Rocky noted that leaving the word “input” in the TOR permits future work on those items Tim is concerned with; as long as it stays out of the CSC work
 - i. Tim commented that he does not feel this impacts the MASPS

Summary of the 51st meeting
RTCA SC-206 – AIS/MET Data Link Services

- 1. These measurements are important for forecast models
- ii. Tim added that we need specifications that have to be met for the sensors that are not commercially available or viable at this time
- e. Rocky commented that we want language in the TOR that doesn't constrain, but gives us the leeway to conduct the research

6. Tom Evans agreed to send Frances a copy of the ICAO gold document

- v. Rocky proposed sending the revised version of the TOR to the PMC next week
 - 1. The Committee agreed
 - 2. Frances agreed to post a clean version of the TOR to Workspace tomorrow
- b. Rejoining with WG-76
 - i. Rocky noted that he foresees rejoining with WG-76 sometime in September 2018
 - 1. However, we are unable to decide today as to when to schedule the first joint meeting
 - ii. Karan commented that SC-206 could extend an invite to WG-76 to attend our September plenary
 - 1. The Committee agreed

8. Future Meeting Plans and Dates

- Eldridge noted that he's got a concern with travel between October and December
 - The FAA is typically working under a Continuing Resolution (CR) and travel has to be mission essential
- Eldridge also suggested that the government participants plan for 2 international trips per year; preferably in the 2nd and 4th quarters

Date	Location	Current plan
Sept 17-21, 2018	Washington, DC (RTCA)	
Dec 3-7, 2018	Melbourne, FL	Approve FIS-B MOPS for FRAC release Could be first joint meeting. May be conflict with WG-76
March 2019	Washington, DC (and/or Europe)	FIS-B MOPS FRAC resolution review Plenary approves release of the MOPS to the PMC Possibly a split Plenary with SG5 in DC and SG6 in Europe
June 2019	Washington, DC (RTCA)	PMC approves FIS-B MOPS for publication

9. Action Item Review

- All Open Action items were reviewed and dispositioned as necessary
 - 316 closed
 - 318 closed
 - 321 closed

Summary of the 51st meeting
RTCA SC-206 – AIS/MET Data Link Services

#	Owner	Action	Date	Status
326	Steve	Steve Darr agreed to forward to Frances / Karan the FPAW meeting information being provided to AMS	June 2018	Open
327	Moin	Moin Abulhosn agreed to speak with the head of Flight Standards about minimum CDM requirements for operators and coordinate with Rocky	June 2018	Open
328	Paul / John	Paul Freeman / John Ferrara were tasked with developing a FIS-B MOPS Burn Down diagram	June 2018	Open
Closed				
316	SC-206	SC-206 team to review proposed TOR change language as it relates to rejoining WG-76 and provide comment by the March 2018 Plenary meeting. This includes coordination by Karan with WG-76 to obtain their feedback	Dec 2017	Closed June 2018
318	Rocky	Rocky to provide an update on the CDM activities to the SC-206 team in January 2018	Dec 2017	Closed June 2018
321	Karan	Karan Hofmann agreed to look for latest WG-76 documents and post to Workspace accordingly	Mar 2018	Closed June 2018
322	Karan	Karan Hofmann agreed to pull down all recent WG-76 documents from the WG-76 Sharepoint server, post to Workspace, and provide the link to the 206 membership	June 2018	Closed June 2018
323	SC-206	Rocky Stone suggested the membership review and edit the existing draft TOR document regarding rejoining WG-76, joint MASPS development, and MOPS product additions	June 2018	Closed June 2018
324	Frances	Frances Prott agreed to post / distribute most recent TOR with proposed language for review and comment by the team for the Thursday Plenary session	June 2018	Closed June 2018
325	Tom	Tom Evans agreed to provide Frances with a copy of / reference to the ICAO Gold document	June 2018	Closed June 2018

Summary of the 51st meeting
RTCA SC-206 – *AIS/MET Data Link Services*

10. Other business

- There was no new business discussed at this time

11. Adjourn

The Plenary session adjourned at approximately 1130 on June 14th.

CERTIFIED as a true and accurate summary of the meeting.



Joe Bracken, Secretary



Rocky Stone, Co-chair



Tom Evans, Co-chair