



## **RTCA PROGRAM MANAGEMENT COMMITTEE SUMMARY**

### **Meeting Summary**

**June 26, 2025**

RTCA Paper Number: 197-25/PMC-2759

### **AGENDA ITEM 1: WELCOME AND INTRODUCTIONS**

Program Management Committee (PMC) Chair Dr. Chris Hegarty gavelled the meeting to order at 8:30am EDT. He asked those attending in person to introduce themselves and then asked the PMC members on the Webex to introduce themselves. Chair Hegarty extended a special welcome to Anna von Groote, Director General of EUROCAE and Dr Jason Anderson, the 2024 William E. Jackson Award winner. both of whom were participating in person at RTCA, Inc. HQ.

Chair Hegarty asked RTCA, Inc. to present the RTCA policy slides. Senior Program Director Alex Para reviewed the RTCA, Inc. policies for Anti-Trust, Export Compliance, Intellectual Property, and no recording of RTCA, Inc. meetings.

### **AGENDA ITEM 2: REVIEW AND APPROVE**

#### **A. Meeting Summary March 13, 2025**

Chair Hegarty asked the PMC members if there were any comments on the Summary of the March 13, 2025, Program Management Committee meeting. Member Steve Horvath of Garmin provided minor editorial changes prior to the meeting. Government Authorized Representative (GAR) Bruce DeCleene of the FAA moved to accept the minutes with Member Horvath's improvements. PMC Member Justin Madden of Airlines for America seconded the motion. The motion passed unanimously.

#### **B. Administrative Terms of Reference Change(s)**

Rebecca Morrison, PMC Secretary of RTCA, Inc., presented five administrative updates to Special Committee Terms of Reference (ToR) as follows:

- SC-238 - Counter UAS – Replace GAR Tricia Fantinato with FAA GAR Cenely Jarquin of the FAA
- SC-239 - Low Range Radar Altimeter - Replace GAR Barbara Clark of the FAA with GAR Marie Hogestad of the FAA
- SC-242 - Spectrum Compatibility – Name Eddie Straub of Garmin as Secretary filling the vacancy left by PMC Member Emeritus Clay Barber (retired).
- SC-243 - Airborne Electronic Hardware (AEH) Development Assurance – Named Craig Hanson of Honeywell as Co-Chair.
- SC-244 - Take-off Performance Monitoring System Strategy - Replace GAR Barbara Clark of the FAA with GAR Marie Hogestad of the FAA.

Chair Hegarty thanked former GAR Clark for her years serving as GAR on multiple RTCA committees. GAR DeCleene moved to approve all ToR updates and PMC Member Donny Morrow of Air Line Pilots Association (ALPA) seconded the motion. The motion passed unanimously.



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### **AGENDA ITEM 3: RTCA PRESIDENT'S REPORT**

Ms. Huegel welcomed the PMC Members and meeting participants, with special acknowledgement of EUROCAE Director General Anna von Groote. Ms. Huegel then shared highlights of RTCA activities since the March PMC meeting. She noted RTCA has continued its listen and learn tour, meeting with members to better understand member needs relative to artificial intelligence and standards development. RTCA visited members in April and June and attended conferences including the EUROCAE Symposium in Madrid and the annual FAA/EASA International Safety Conference in Cologne. May was a busy month with meetings of the Advisory Board and Board of Directors along with a GNSS Jamming and Spoofing Webinar. Ms. Huegel shared that Dr. Cathy Cahill has been elected to the Advisory Board and Rob Frank from Collins Aerospace has been elected to the Board of Directors. Ms. Huegel then shared that Dr. Chris Hegarty was awarded the first RTCA President's Award at the 90th Anniversary Gala the prior evening and then invited attendees to the second Awards ceremony planned for the afternoon (post the PMC).

### **AGENDA ITEM 4: COMMITTEE DELIVERABLES**

- A. IR-003: INTERNAL REPORT ON BEIDOU SYSTEM AND BDSBAS Presented by SC-159: Navigation Equipment Using the Global Navigation Satellite System (GNSS)

SC-159 Co-Chair Chris Hegarty presented Internal Report 003 (IR-003) for consideration by the PMC. He outlined the content of the internal report and recommended acceptance of IR-003. The details of the Review and Comment process were presented. All comments were resolved satisfactorily.

Member Roy moved to accept the report and Member Morrow seconded the motion. The motion carried unanimously.

- B. RR-XXX: Information Security Management System for Aviation Organizations Presented by SC-216: Aeronautical Systems Security

Co-Chairs Siobvan Nyikos of Boeing and Patrick Morrissey of Collins Aerospace presented.

The document did not complete committee approval in time to be presented to the PMC at this meeting. However, they did complete comment resolution and approval at the SC-216 working meetings in June and approved at their plenary on June 6, 2025.

The document went through a Review and Comment process and 21 non-concur comments were received. Themes of the non-concur comments included clarification of scope, terminology, and the language to reflect the document is a report. All comments were resolved.

Co-Chair Nyikos asked if the PMC would consider an out-of-cycle approval of the document.

Chair Hegarty agreed and a timeline was proposed.



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GAR DeCleene asked that three weeks be given to PMC members to review and approve the document.

C. RR-005: Report on Standard on Aviation Data Security Presented by SC-216: Aeronautical Systems Security.

Olivia Stella of Airlines for America (Southwest Airlines), and the working group lead for the data security report, presented along with Co-Chairs Siobvan Nyikos of Boeing and Patrick Morrissey of Collins Aerospace.

The details of the Review and Comment process were presented. The single non-concur was a discussion on the definition of cyber security. All comments were resolved. The SC will gather feedback and comments on the report for the next 18-24 months and then revisit the creation of a DO on the same topic.

RTCA Inc. presented some minor editorial changes which were requested by EUROCAE to ensure publication of technically equivalent documents.

Chair Hegarty called for a motion to approve the document. Member Madden so moved, and Member Hennig seconded. The motion passed unanimously.

Member Madden asked if the work on DO-355B needed more flight operators and airlines. Co-Chair Morrissey replied that more members were always needed, and SC-216 was working at onboarding new representatives from the operator community who had joined the group. Member Williams agreed to review the roster of SC-216 for participation from NBAA.

D. RR-XXX: Supporting Information for DO-356A Presented by SC-216: Aeronautical Systems Security

The Review and Comment process for this document has not been completed and therefore was not presented at the PMC meeting.

E. IR-004: Internal Report Scoping Planned Changes to DO-367 and Plans for Additional RTCA Reports Presented by SC-231: Terrain Awareness Warning System (TAWS)

Co-Chair Rick Ridenour presented IR-004 to the PMC for acceptance.

Member Jens Hennig of GAMA asked about the notional timeline for addressing the NTSB recommendation since the report says now is not the time to make modifications to DO-367.

Co-Chair Ridenour replied that one of three things needs to happen before SC-231 would recommend a revision to DO-367:

1. The GCAS technology which is detailed in the 2020 White Paper from SC-231, need to mature
2. If EUROCAE opens a group to write new standards for TAWS
3. In three years (2028) the issues should be reviewed again.

When one of these events take place, SC-231 would like to re-evaluate potential updates to the TAWS MOPS.



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Director General von Groote stated that EUROCAE is waiting for this information to be completed before issuing a call for participation. RTCA and EUROCAE can coordinate on what is a good time.

Member Morrow noted that it is a good report, and highlights there is no need for anything immediate.

Hette Hoekema of EASA noted that there may be some interest from other regulatory authorities that are not RTCA members and there may be value to publishing it.

Chair Hegarty summarized the next steps to be taken are for SC-231 to convert this to an RTCA Report for publication. Both the Internal Report approval and the ToR approval are deferred until that step is completed. RTCA agreed to present findings at the September 2025 EUROCAE Technical Advisory Committee meeting.

F. DO-402: MOPS for Wireless Avionics Intra-Communication (WAIC) within 4200-4400 MHz Presented by SC-236 including 3 dissents and committee responses.

Co-Chairs Uwe Schwark of Airbus and Steve Rines of Safran identified the three organizations and presented a summary of their dissents that could not be resolved with the committee members.

Secretary Morrison remarked that the dissent process that was followed by RTCA was identical to the process followed in the past, however there were some timing changes due to the need to execute the RTCA dissent process in parallel with the EUROCAE dissent process. RTCA's process requires that all actions taken by a Special Committee must be done in a public plenary and consideration of the dissent and its responses take place at a Program Management Committee meeting that is open to the public. EUROCAE does not welcome members of the public to their meetings.

Co-Chair Rines continued detailing that the dissents were accepted and responded to. He also noted that supporting opinions from member companies of RTCA, Inc and EUROCAE were solicited and those that were received were available in the dissent package that was provided to the PMC Members prior to the PMC meeting.

The Co-Chairs asserted that it was the joint committee's desire to publish the dissents and responses as a separate document from DO-402.

Doug Hyslop of CTIA, one of the dissenters, was called on by Chair Hegarty to speak when he raised his hand. He highlighted some issues from his dissent and CTIA's opinion that the ICAO documents need to be corrected.

Member Roy asked if the values of concern for the power spectral density to be tolerated are protection criteria or design criteria?

Co-Chair Schwark responded that this is a discussion and a system installed needed to consider the RF environment and additional properties. The MOPS is only equipment level performance. When a WAIC system is installed, there will need to be an overall assessment of all impacts from the integration.



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Member Roy asked whether the aircraft integrator will need to account for this if the levels are exceeded.

Co-Chair Schwark answered it would be a possibility. It would depend on the uses of the WAIC system and the level of tolerance the system can accept. He reiterated this is an equipment level document.

Member Roy noted that the real work on WAIC starts now. He said that he supported approving DO-402 today, and he cautioned that it doesn't mean that WAIC is ready to operate today.

The discussion returned to how to publish DO-402 and the dissents, and Chair Hegarty asserted that he supported publishing the dissents as an appendix in DO-402.

Secretary Morrison asserted that RTCA, Inc would prefer to follow the standard process of including the dissenting opinions and the responses as an appendix to the document.

Chair Hegarty asked for a motion to publish DO-402 with the dissenting opinions as an appendix in the publication. Member Jens Hennig of GAMA so moved with Member Madden seconding the motion. The motion passed unanimously.

Member Roy noted that some of the dissent information raised valid concerns that are a risk that could mean the system does not go into production.

GAR DeCleene stated he supported the consensus decision of the PMC and asked what the process is to see what we are publishing in advance of publication.

RTCA, Inc took the action to provide the final version of DO-402, including the dissents, to all PMC members for review before publishing. Publication dates will be aligned with EUROCAE's publication of ED-319.

RTCA, Inc also took the action to inform ICAO of the approval and the publication date.

Chair Hegarty acknowledged Director General Anna von Groote of EUROCAE who stated that the technical equivalent to DO-402 would go to the EUROCAE Council for consideration of publication the following Wednesday and that she would communicate to President and CEO Huegel the results of the Council's decision.

#### **AGENDA ITEM 5: PAST ACTION ITEM REVIEW**

- A. Action: RTCA, Inc. will investigate if there is operational guidance about expertise in the Special Committee (SC) Guidance.

Assigned: 3/2025

Due: 6/2025

This action was closed prior to the PMC meeting - see Special Committee Guidance March 2025.

- B. Action: RTCA, Inc. Clean up the SC-206 ToR and resend to the PMC for a final, clean version.

Assigned: 3/2025



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Due: 6/2025

This action was closed prior to the PMC Meeting.

- C. Action: RTCA Inc. will provide better definitions of Internal Reports and RTCA Reports.

Assigned: 3/2025

Due: 6/2025

This action was closed prior to the PMC meeting - see Special Committee Guidance March 2025.

- D. Action: RTCA, Inc. will change the first report (RR-ZZZ) for SC-240 on suggested updates to existing software standards to an IR.

Assigned: 3/2025

Due: 6/2025

This action was closed prior to the PMC meeting.

- E. Action: RTCA, Inc. to survey chairs for lessons learned on validation, level of validation, how they capture the validation in the standards, and report back to the PMC.

Assigned: 3/2025

Due: 6/2025

This action is not complete and will be updated at the next PMC meeting scheduled for September 25, 2025.

- F. Action: RTCA to post the dissenting opinions received for SC-236's document, DO-402.

Assigned: 3/2025

Due: 6/2025

This action was closed prior to the PMC meeting.

- G. Action: RTCA, Inc. to coordinate participation in EUROCAE's workshop on GNSS Spoofing and Jamming.

Assigned: 3/2025

Due: 6/2025

This action is closed. As part of the discussion of EUROCAE activities, EUROCAE presented their plan for a workshop on GNSS Spoofing and Jamming. EUROCAE took the action to provide the paper. RTCA, Inc. will pass along the invitation to the workshops to the Special Committee Chairs of relevant committees.

- H. Action: RTCA, Inc to review the need for a document style for Frequently Asked Questions and if this should be a new type of deliverable.

Assigned: 3/2025

Due: 6/2025



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This action is not complete and will be updated at the next PMC meeting to be held September 25, 2025.

- I. Action: RTCA, Inc. to work with Member Hennig, Chair Hegarty, and Member McDowell to initiate a survey on True versus Magnetic north and report results to the PMC.

Assigned: 3/2025

Due: 6/2025

Member Hennig has identified key terms to search for in published RTCA documents to discover if they would be impacted by a change in the input for heading from magnetic versus true north. RTCA has determined a method to search our electronic library for these terms and provide that information to Member Hennig, Chair Hegarty, and Member McDowell to decide next step with the committee chairs. The status will be updated at the next PMC meeting scheduled for September 25, 2025.

- J. Action: RTCA, Inc. to draft a filing for the FCC docket to enter the schedule of SC-239 as a response to their Notice of Inquiry.

Assigned: 3/2025

Due: 4/29/2025

This action was closed prior to the PMC meeting with the filing by RTCA, Inc. on April 29, 2025.

- K. Action: RTCA to work with Member Roy on sending a survey on preliminary readiness to address nearby spectrum issues associated with their spectrum allocations.

Assigned: 12/2024

Due: 3/2025

Member Roy presented a survey that had been reviewed by Members Horvath, Morrow, and Turner. This survey will be distributed to the chairs of the relevant Special Committees and the results will be updated to the PMC. This action is closed.

RTCA, Inc, will distribute the survey on preliminary readiness to address nearby spectrum issues associated with a Special Committee's spectrum allocations and report status back at PMC committee meetings

- L. Action Member Kauffman will provide input to the SC-242 leadership

Assigned: 3/2025

Due: 6/2025

Member Kauffman provided slides and engaged in a discussion with the leadership of SC-228 during their presentation. Honeywell recommends SC-228 initiates a new revision of DO-377 with the objective to define technically consistent and usable methodology for the required C2 link performance derivation and demonstration. During the discussion of the SC-228 ToR update,



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SC-228 Co-Chair Williams acknowledge this is the plan for the committee and a new ToR update will be presented at the September PMC Meeting.  
This action is closed.

#### **AGENDA ITEM 6: OUT of CYCLE ACTIONS SINCE MARCH 2025 PMC MEETING**

No Out of Cycle Approvals were presented to the PMC since the March 13, 2025 meeting.

#### **AGENDA ITEM 7: REGULATOR UPDATES**

##### **A. FAA Actions Taken on Previously Published Documents – Report**

Rob Bouza walked through the report and noted actions taken by the FAA on documents published by RTCA, Inc. Of special note was Mr. Bouza’s remarks that the Notice of Proposed Rulemaking for Part 108 was expected to be in the Federal Register within 30 days.

##### **B. EASA Action Status Summary – Report**

Hette Hoekema presented for EASA. Mr. Hoekema gave an update of the regulatory plans for EASA. He informed the PMC of the new roadmap related to 5G networks and radar altimeters. The goal in the EU is to have a coordinated introduction of 5G while ensuring aviation safety. The Electronic Communications Committee of the CEPT has recently published ECC Report 362 including the sharing studies. After the publication of the new MPS, the CEPT will assess the impact in comparison to the current studies. Following the assessment, the next regulatory steps will be determined. EASA will recognize the new standard (CS-ETSO) and develop guidance if necessary.

Mr Hoekema then presented the planned upcoming amendments for Rulemaking and Certification Standards.

#### **AGENDA ITEM 8: SPECIAL COMMITTEES CHAIR’S REPORTS**

Secretary Morrison reviewed the Special Committees which had plenaries since the March 13, 2025, PMC meeting. Of note was the Chair Report written by the previous GAR of the SC-238, Trica Fantinato.

Secretary Morrison noted that perhaps there should have been more discussion of the SC-238 Administrative ToR update as SC-238 does not currently have either a Chair or a Secretary.

After discussion, RTCA, Inc took the action to create an Ad Hoc of interested PMC Members to work with the current and former GARs of SC-238 to determine a path forward for the committee.

Member Madden inquired about the process for requesting Chair Reports. He mentioned that he finds the chair reports helpful and perhaps all Special Committees should submit a chair report for each PMC Meeting. Member Turner indicated that the process was to request chair reports when a Special Committee had a plenary but was not presenting at the PMC meeting.



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## **AGENDA ITEM 9: INTERNATIONAL COORDINATION**

### **A. EUROCAE - Update**

EUROCAE presented the status of their current work including publications since the last PMC meeting and the open consultations that are in process now.

EUROCAE presented there are two new committees that have been established. One is on Automated Aircraft Inspection, and the other is WG-133 for GNSS Multi Element Antennas.

EUROCAE also presented on a new Key Performance Indicator they are tracking on referencing their EDs for regulatory use. They are tracking ED recognition at EASA, the FAA, and ICAO along with the average time to recognition. At EASA, it is 3 years after publication.

EUROCAE shared the Council and Technical Advisory Committee meeting schedule through April 2026.

Member Jessie Turner of Boeing asked EUROCAE if there were plans for WG-133 to work jointly with an RTCA Special Committee

Chair Hegarty answered there was significant interest in SC-159 WG-7, but that SC-159 cannot start discussions until the technology is no longer controlled under U.S. ITAR regulations.

## **AGENDA ITEM 10: SPECIAL COMMITTEE UPDATES**

### **A. SC-135 - Environmental Testing – Update**

SC-135 Chair Kyle McMullen presented to the PMC raising an issue that has arisen in the preparation for Final Review and Comment in the completion of DO-160H for publication in 2026. Chair McMullen reported that SC-135 working with EUROCAE WG-14 has completed a rigorous Review and Comment Process, but they are unable to complete the comments received against Section 26 – Fire, Flammability. Chair McMullen provided a detailed history of Section 26 in DO-160 since it was added in Rev E. Currently, the group is struggling with meeting the needs of EASA and the FAA and are also concerned about a standard that is being written by SAE A-22 that might supersede parts of Section 26. Chair McMullen presented three options the SC-135 has considered as:

1. Reject all existing change requests against Section 26 related to the change in content
2. Remove all of Section 26 from Revision H of DO-160
3. Remove procedures and figures from Section 26 in Revision H of DO-160 and add a note to follow FAA or EASA guidance

Chair McMullen asked for help on the best path forward for SC-135.

Rob Bouza, of the FAA, noted that this is a complicated regulatory environment and the FAA has several people involved in the internal discussion and have not yet come to consensus. He suggested that the FAA work with SC-135 on the recommended path



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forward for Section 26 in DO-160H. The PMC also discussed that DO-160() is published as a technically equivalent document to ED-14() by EUROCAE.

RTCA, Inc, took the action to convene an Ad Hoc consisting of PMC members, the FAA, EASA, and other representatives of the TAC to meet with the leadership of SC-135 and EUROCAE WG-14 to discuss the best path forward for Section 26 in DO-160H.

Chair McMullen then presented about the High Voltage Power task group making an internal report as captured in their TOR. SC-135 is considering asking continuing the work beyond the initial Internal Report which will be presented at the December 2025 PMC Meeting. He noted there were two issues the group was facing right now – limited support because of new technology concerns and other standards development organizations working on the same topic. He asked PMC Members to encourage participation from their organizations.

B. SC-159 - Navigation Equipment Using the Global Navigation Satellite System (GNSS) - Terms of Reference Update – Approved as Presented

Co-Chair Chris Hegarty of SC-159 presented a proposed ToR update that moves the next version of the dual-frequency multi-constellation MOPS, DO-401A, to a publication date in March 2027. There was also some general alignment of the Terms of Reference to the current RTCA, Inc ToR format.

Member Hennig moved to approve the ToR as presented and Member Horvath seconded. The motion carried unanimously.

C. SC-206 - Aeronautical Information and Meteorological Data Link Services (AIS) - Terms of Reference Update – Approved with minor wording changes from the Garmin PMC Representative

GAR Tammy Flowe of the FAA and working group lead Louis Bailey presented for SC-205. The ToR updated delayed the delivery of their technical standard by six months and added a new MOPS on Emergency Diversion Service.

Chair Hegarty called for a motion to approve the ToR for SC-206. Member Roy so moved, and Member Horvath seconded the motion. The motion passed unanimously.

D. SC-223 - Internet Protocol Suite (IPS) and Aeronautical Mobile Airport Communication System (AeroMACS) - Terms of Reference Update

SC-223 Chair Jonathan Graefe presented the requested TOR change to add an internal report in coordination with AEEC IPS Subcommittee to capture the results of the current validation testing. The expected completion of Review and Comment is June 2026.

GAR DeCleene requested that RTCA, Inc. update the ToR to indicate To Be Determined for the SC-223 GAR as the FAA considers the successor to Brent Phillips who is now retired.



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Chair Hegarty called for a motion to approve the ToR for SC-223. GAR DeCleene so moved, and PMC Member Heidi Williams of NBAA seconded to approve the TOR with the new internal report but without naming a GAR. The motion passed unanimously.

#### E. SC-228 - Minimum Performance Standards (MPS) for UAS - Terms of Reference Update

Co-Chair Jim Williams of J. Williams Solutions presented for SC-228. This ToR update added a new MASPS for Dynamic Frequency Management Services to be published in June 2027. The rule for the use of the spectrum already exists, but it is 10 MHz to be shared. This MASPS will define the mechanism for frequency management operations. The FCC may need to update the rule after we complete this MASPS.

Member Roy inquired if anyone outside of RTCA, Inc. is working on standardizing this technology.

Co-Chair Williams indicated not that he knew of.

Member Kauffman asked if it made sense to write the MASPS without knowing the business model.

Co-Chair Williams replied that the business rules are in the FCC Report and Order.

Member Kauffman asked whether the MASPS will address deconfliction considering there are multiple providers.

Co-Chair Williams replied yes.

Chair Hegarty called for a motion to approve the ToR change. Member Horvath so moved, and Member Kaufmann seconded. The motion passed unanimously.

#### F. SC-230 - Airborne Weather Detection Systems - Terms of Reference Update

Co-Chairs Dawn Gidner of Oliver Wyman and Venkata Sishtla of Collins presented a ToR update requesting a delay of 6 months in the delivery of their updated RTCA Report to present the PMC for publication. The delay is driven by the need to complete testing.

Chair Hegarty called for a motion to approve. Member Hennig so moved, and PMC Member Michael McDowell of Collins Aerospace seconded the motion. The motion passed unanimously.

#### G. SC-239 - Low Range Radar Altimeter – Update

Co-Chairs Jean-Luc Robin of Airbus and Seth Frick of Honeywell presented the current work of SC-239 and their progress on completing the Minimum Operational Performance Standard (MOPS) for Radar Altimeters. The group held a plenary on May 23, 2025, and approved a draft MOPS to enter a formal review and comment process. Commenting would last just over one month from the 28th of May through the 2nd of July. So far, over 200 comments have been received.



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The next meeting is scheduled July 7 at EASA in Cologne with a plenary session on July 11. The goal of the meeting is to start resolving the RAC comments.

PMC Member Andy Roy of ASRI asked when the Interference Tolerance Mask (ITM) values could be made public. Co-Chair Frick answered that the ITM should be relatively stable after the RAC comment resolution was complete. Co-Chair Robin agreed with Co-Chair Frick.

PMC Member Roy commented there is another SC-239 Plenary planned before the next PMC meeting on September 25 and asked if that would be the right time to release information on the ITM.

Secretary Morrison suggested the action be given to RTCA, Inc to provide options RTCA, Inc would consider relative to releasing technical data outside of the existing Special Committee process.

President and CEO Huegel stated that RTCA, Inc. needs the information to be both durable and credible, and the values will not be available by September 2025.

Member Roy said that the best option would be releasing the information yesterday, but he conceded that later is better than incorrect with respect to the values of the ITM.

GAR DeCleene agreed on the urgency and asked everyone to consider the consequence of not releasing any information.

RTCA, Inc took the action to consider the options for releasing technical data without the formal consensus of the committee and in a method other than publishing a technical product.

The discussion continued with Member Morrow asking how this would affect the retrofit efforts.

Co-Chair Frick answered that he is aware of the retrofit conversations and asked what comes after the retrofits. He stated that the MOPS provides a technical path to achieve best achievable ITM through the transceiver design with existing antenna performance captured in requirements in the MOPS.

H. SC-147 - Traffic Alert & Collision Avoidance System - Terms of Reference Update  
– Action: Improve wording in the proposed report

Co-Chairs Stu Searight of the FAA and Ruy Brando of Honeywell presented. This ToR update was seeking an internal report for RA and ACAS. During discussion it was noted that the National Transportation Safety Board had scheduled hearings to begin on the January 29, 2025, mid-air collision in July. The question was raised on why the paper would only address ACAS and not include TCAS.

Chair Hegarty suggested it would be advisable to review and update the wording, and that the PMC would accept an Out of Cycle action to approve the TOR if desired.

I. SC-231 - Terrain Awareness Warning System (TAWS) - Terms of Reference Update



Co-Chair Rick Ridenour of ACSS presented the requested ToR update to move to active monitor status. This approval is deferred until after the action is taken to release IR-004 as an RTCA Report.

**AGENDA ITEM 11: OTHER BUSINESS**

A. Jason Anderson, the 2024 William E. Jackson award winner, gave a technical presentation on his dissertation entitled, “Designing Cryptography Systems for GNSS Data and Ranging Authentication”

**AGENDA ITEM 12: SCHEDULE for COMMITTEE DELIVERABLES and NEXT MEETING DATE**

Committee Deliverables for September 26, 2025 PMC Meeting:

<b>Special Committee</b>	<b>Deliverable Product Description</b>
SC-217	DO-201C: User Requirements for Navigation Data
SC-222	DO-343E - MASPS – Inmarsat SBB and Iridium Certus Updates
SC-222	DO-262G - MOPS - Inmarsat SBB and Iridium Certus Updates

Dates for next PMC Meetings:

- September 25, 2025
- December 16, 2025
- March 10, 2026
- June 23, 2026

All future PMC meetings will now be called to order at 9am Eastern Time.

**AGENDA ITEM 13: SUMMARY of ACTION ITEMS TAKEN DURING MEETING**

Action: RTCA, Inc. to convene an Ad Hoc consisting of PMC members, the FAA, EASA, and other representatives of the EUROCAE TAC to meet with the leadership of SC-135 and EUROCAE WG-14 and reach consensus on the best path forward for Section 26 in DO-160H.

Assigned: 6/2025  
Due 9/2025

Action: to RTCA, Inc to provide any plans RTCA, Inc would consider on releasing technical data outside of the existing Special Committee process once an ITM has received committee consensus.

Assigned: 6/2025  
Due: TBD

Note: Update at each PMC meeting after status of SC-239 is presented. Due date will be dependent on the members of SC-239 communicating the ITM values and the level of support these values have from the committee membership.



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Action: RTCA, Inc to provide the final version of DO-402, including the dissents, to all PMC members for review before publishing.

Assigned: 6/2025

Due: 9/2025

Action: RTCA, Inc inform ICAO of the approval and the publication date.

Assigned: 6/2025

Due: 9/2025

Action: EUROCAE took the action to share with RTCA, Inc (to share with PMC members) the paper establishing the GNSS Spoofing/Jamming Workshop.

Assigned: 6/2025

Due: 9/2025

Action: RTCA, Inc to pass along the invitation to the GNSS Spoofing/Jamming Workshop to Chairs of relevant Special Committees

Assigned: 6/2025

Due: 9/2025

Action: RTCA, Inc. to distribute the survey on preliminary readiness to address nearby spectrum issues associated with a Special Committee's spectrum allocations and report status back at PMC committee meetings.

Assigned: 6/2025

Due: 9/2025

Action: SC-231 and RTCA, Inc should review the submitted IR-004 and modify it, if necessary, to publish as an RTCA Report

Assigned: 6/2025

Due: 9/2025

Action: Leadership of SC-147 and RTCA should update the ToR answering on why they decided to exclude TCAS from the internal report. Once clarified, it can be presented as an electronic ballot.

Assigned 6/2025

Due: 9/2025

#### **AGENDA ITEM 14: ADJOURNMENT**

Chair Hegarty Adjourned the meeting at 2:55pm EDT.



RTCA, Inc.  
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 Washington, DC 20036  
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Participants – June 26, 2025		
<b>PMC MEMBER ATTENDEES IN BOLD</b>		
<b>Dr. Christopher</b>	<b>Hegarty</b>	<b>The MITRE Corporation Chairman</b>
<b>Carleen</b>	<b>Adams</b>	<b>Federal Aviation Administration</b>
<b>Bruce</b>	<b>DeCleene</b>	<b>Federal Aviation Administration Government Authorized Representative</b>
<b>Jens</b>	<b>Hennig</b>	<b>General Aviation Manufacturers Association</b>
<b>Carol</b>	<b>Huegel</b>	<b>RTCA, Inc. President and CEO</b>
<b>Donald</b>	<b>Kauffman</b>	<b>Honeywell International, Inc.</b>
<b>Justin</b>	<b>Madden</b>	<b>Airlines For America</b>
<b>Jim</b>	<b>McClay</b>	<b>Aircraft Owners and Pilots Association</b>
<b>Mike</b>	<b>McDowell</b>	<b>Collins Aerospace</b>
<b>Rebecca</b>	<b>Morrison</b>	<b>RTCA, Inc PMC Secretary</b>
<b>Donny</b>	<b>Morrow</b>	<b>Air Line Pilots Association</b>
<b>Andrew</b>	<b>Roy</b>	<b>Aviation Spectrum Resources, Inc.</b>
<b>Jessie</b>	<b>Turner</b>	<b>The Boeing Company</b>
<b>Heidi</b>	<b>Williams</b>	<b>National Business Aviation Association</b>
<b>Edgar</b>	<b>Wright</b>	<b>U.S. Air Force</b>
<b>OTHER ATTENDEES:</b>		
Moin	Abulhosn	FAA
Robert	Bouza	FAA
Ruy	Brandao	Honeywell
Ann	Cihon	FAA
Barbara	Clark	FAA
Ben	Cluff	CASA
J	Daum	FAA
Tammy	Flowe	FAA
Seth	Frick	Honeywell
Dawn	Gidner	Oliver Wyman
James	Gilb	GA-ASI



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Participants – June 26, 2025		
Marshall	Gladding	Boeing
Jonathan	Graefe	Collins
Bradley	Green	Honeywell
Anna	Guegan	EUROCAE
Hette	Hoekema	EASA
Doug	Hyslop	CTIA
Ravi	Jain	FAA
Cenely	Jarquin	FAA
Zanthe	Jordine	GAMA
Kyle	McMullen	Bell
Alex	Milns	EUROCAE
Patrick	Morrissey	Collins
Siobvan	Nyikos	Boeing
Alexander	Para	RTCA, Inc
Kelly	Peters	Piper Aircraft
Mark	Phaneuf	ALPA
Kambiz	Rahnavardy	FCC
David	Redman	AVSI
Rick	Ridenour	ACSS
Steve	Rines	Safran
Jean-Luc	Robin	Airbus
Uwe	Schwark	Airbus
Stuart	Searight	FAA
Paul	Siegmund	FAA
Venkata	Sishtla	Collins
Olivia	Stella	A4A
Sarah	Stern	Boeing
Brandon	Suarez	Reliable Robotics
Pat	Timmerman	Belcan
Jeff	Troy	ISAC
Stephen	Van Trees	FAA
Anna	von Groote	EUROCAE
Mark	Watson	EUROCAE
Jim	Williams	J. Williams Associates
Janet	Young	FCC