

**RTCA SC-228**  
**Summary of Plenary 15 – RTCA Paper No: 201-18/SC228-055**  
**Renton, WA**  
**1:00 p.m., Thursday, July 12, 2018**

The fifteenth Plenary of RTCA Special Committee 228 was called to order by SC-228 Co-Chair, John Moore at 1:00 p.m. (PST) on 12 July 2018, using WebEx audio and web conferencing. John welcomed all attendees and deferred to AI for logistics and administrative remarks.

1. Agenda Item #1 – Call to Order / Welcome
  - 1.1. John Moore welcomed everyone to the plenary.
  - 1.2. Reference “180712 SC-228 15<sup>th</sup> Plenary Main Slides.pdf” for slides used during plenary. These slides can be found on the RTCA workspace website.
2. Agenda Item #2 – Review RTCA meeting guidelines
  - 2.1. AI highlighted the requirement for an Anti-Trust Policy due to no longer being a Federal Advisory Committee (FAC), but still maintaining compliance as a Standards Committee.
  - 2.2. AI then reviewed the Anti-Trust Policy.
  - 2.3. AI also reviewed the Proprietary Policy and RTCA Committee Participation Membership Policy.
  - 2.4. AI asked everyone in attendance to sign in via the roster or provide contact information on the new member sheet.
  - 2.5. Roll Call – The complete list of session participants is listed in Appendix A.
3. Agenda Item #3 – Opening Remarks / Introductions
  - 3.1. John reviewed the Leadership Team for SC-228 and stated how SC-228 has one of the larger bodies of registered members among the Special Committees at RTCA.
  - 3.2. John highlighted some current events in the UAS community.
  - 3.3. John stated that he was happy to see the great interest in contributing to UAS standards.
4. Agenda Item #4 – Approve meeting minutes from Meeting #14
  - 4.1. John stated that he had not received any feedback regarding the draft for minutes from Plenary #14.
  - 4.2. Acceptance of Plenary #14 minutes; moved by Ted Lester, 2<sup>nd</sup> by Don Walker – unanimously approved.
5. Agenda Item #5 – Discussion RTCA moving from FACA to SDO
  - 5.1. AI explained the relevant changes from moving from a FAC to a Standards Developing Organization (SDO).
  - 5.2. Reference “Independent SDO Briefing.pdf”, on the RTCA workspace, for details on the changes.
6. Agenda Item #6 – Approve proposed Terms of Reference (TOR) changes
  - 6.1. Proposed changes to Working Group 1 (DAA) TOR

- 6.1.1. John reviewed over the proposed TOR changes and explained that approval of TOR changes from the plenary was required for submission to Program Management Committee (PMC).
- 6.1.2. John asked if there were any comments to the TOR changes.
- 6.1.3. Vas Patterson, a representative from ALPA, asked a question about the scheduled change for this proposed change to the TOR.
  - 6.1.3.1. Don Walker stated that the change is clarify the original intent of the language in the TOR.
- 6.1.4. Vas asked if the leadership expects additional work for the working groups.
  - 6.1.4.1. Ted Lester stated that there should be no outstanding items that would affect the gaps.
- 6.1.5. Vas asked who is going to do the end-to-end safety validation study.
  - 6.1.5.1. Ted replied that possibly NASA.
  - 6.1.5.2. Paul Campbell stated that the FAA would perform a Safety Risk Management Panel.
  - 6.1.5.3. Don Walker stated that a SRMD was created for Phase 1 and that the statistics for the Phase 1 environments are known. All that is needed is a sponsor for the Modeling and Simulation required for the deltas.
- 6.1.6. Mark Reed, another representative from ALPA, asked who requested the changes to the TOR.
  - 6.1.6.1. Ted stated that Brandon, from General Atomics Aeronautical Systems Inc. had requested the changes.
- 6.1.7. Vas then stated that ALPA is not able to agree with the change.
  - 6.1.7.1. John Moore asks for clarification to the dissent.
  - 6.1.7.2. Vas replied that ALPA does not agree that Class B and C should be in scope.
  - 6.1.7.3. Vas asked if Class B could be taken out of scope.
- 6.1.8. John asked if there are any other entities, except ALPA, that agrees with this objection.
  - 6.1.8.1. No responses were given.
- 6.1.9. Al stated that ALPA shall present their comment on these changes and be presented to the PMC.
  - 6.1.9.1. **ACTION:** ALPA will submit their dissent to the RTCA PMC.
- 6.2. Proposed CNPC Working Group 2 changes
  - 6.2.1. Change Phase 2 SATCOM standard type from MOPS to MASPS
  - 6.2.2. John asks for comments or thoughts.
    - 6.2.2.1. No responses were given.
7. Agenda Item #7 – WG1 Status Report
  - 7.1. Working Group 1 showed two brief videos from NASA No-Chase COA flights
  - 7.2. Ted reviewed Phase II DAA schedule overview
  - 7.3. Ted updated the statuses of Sub-Groups and advised of upcoming activities.
8. Agenda Item #8 – WG2 Status Report
  - 8.1. Jim discussed status update for Working Group 2.

## 9. Agenda Item #9 – New Business

- 9.1. John reviewed changes to next plenary meeting dates that might affect attendance
  - 9.1.1. 26 October 2018, Plenary #16, RTCA Headquarters
  - 9.1.2. 24-25 January 2019 (FRAC Approval), Plenary #17, RTCA Headquarters
- 9.2. John explained how WG2 required changes to their Face-to-Face(F2F) meetings that prompted the change.
  - 9.2.1. 9-14 September 2018, WG 1/WG 2 F2F, RTCA Headquarters
  - 9.2.2. 22-25 October 2018, WG 2 F2F, RTCA Headquarters
  - 9.2.3. 3-7 December 2018, WG 1 F2F, RTCA Headquarters
  - 9.2.4. 21-23 January 2019, WG 2 F2F, RTCA Headquarters

## 10. Agenda Item #10 – Adjourn

- 10.1. John declared Plenary #15 adjourned at 2:30pm.

– S –

Jonas Trego  
Secretary, RTCA SC-228 Working Group 1

CERTIFIED as a true and accurate summary of the Meeting.

– S –

John Moore  
Co-Chair, RTCA SC-228

## Appendix A – List of SC-228 Plenary Participants

John Moore	SC-228 Plenary Co-Chair	Rockwell Collins, Inc.
Jonas Trego	SC-228 Plenary, WG1 Secretary	General Atomics – Aeronautical Systems Inc.
Don Walker	SC-228 WG1 for DAA, Co- Group Lead	Honeywell International Inc.
Ted Lester	SC-228 WG1 for DAA, Co- Group Lead	MITRE
Steve Van Trees	SC-228 GAR, WG2 for C2, Co-Group Lead	FAA, AIR-130
Jim Williams	SC-228 WG2 Co-Group Lead	
Al Secen	SC-228 Program Director	RTCA

## ATTENDEES

<b>Name</b>	<b>Organization</b>
Arnstein, Donald	The MITRE Corporation
Aurandt, Kevin	Federal Aviation Administration (FAA)
Barney, Tyler	Rockwell Collins, Inc.
Bloch-Hansen, Craig	Transport Canada
Box, Frank	The MITRE Corporation
Campbell, Paul	Federal Aviation Administration (FAA)
Colbert, Dennis	ARCON Corporation
d'Hedouville, Joseph	Adams Communication & Engineering Technology (ACET)
Diodati, Enzo	Transport Canada
Edwards, Matthew	MIT Lincoln Laboratory
Eng, Daniel	NASA
Estkowski, Regina	The Boeing Company
Farjon, Julien	Sagem Avionics, Inc.
Farrier, Thomas	Federal Aviation Administration (FAA)
Fenlason, Norman	The MITRE Corporation
Hammond, Marvin	Technology Providers, Inc.
Hirt, Ruth	Federal Aviation Administration (FAA)
Hoffler, Keith	Adaptive Aerospace Group
Johnson, Rudy	ACSS L3
Kerczewski, Robert	NASA
Kim, Hee Wook	Electronics and Telecommunications Research Institute (ETRI)

<b>Name</b>	<b>Organization</b>
Knickelbein, Jeffrey	Cobham Aerospace Communications
Langelier, Marcie	U.S. Navy
Lee, Jamie	
Lee, Seungman	NASA
Lester, Ted	The MITRE Corporation
Long, Anthony	Federal Aviation Administration (FAA)
Merchant-Bennett, Rose	M-B Consulting
Moore, John	Rockwell Collins, Inc.
Nellis, Don	Federal Aviation Administration (FAA)
Nguyen, Lee	Federal Aviation Administration (FAA)
O'Leary, Michelle	Regulus Group
O'Leary, Shelly	Regulus Group
OKOCHI, Hiroshi	
Pagano, Tom	Federal Aviation Administration
Patterson, Vas	Air Line Pilots Association (ALPA)
Raynes, Joseph	The Johns Hopkins University
Reed, Mark	Air Line Pilots Association (ALPA)
Reichelt, Christopher	Rockwell Collins, Inc.
Ross, Joseph	Federal Aviation Administration (FAA)
Rumberger, Paul	Federal Aviation Administration (FAA)
Santiago, Confesor	NASA
Saunders, Jonathan	Aurora Innovations
Scheff, Scott	HF Designworks, Inc.
Secen, Al	RTCA, Inc.
Shim, David	
Shim, Hyunchul	Korea Advanced Institute of Science and Technology (KAIST)
Skaves, Peter	Federal Aviation Administration (FAA)
Suarez, Brandon	General Atomics Aeronautical Systems, Inc.
Suarez, Cesar	The Boeing Company
Swanson, Mo	Echnodyne
Swider, Christopher	Federal Aviation Administration (FAA)
Terry, Ryan	Lockheed Martin Corporation
Theunissen, Erik	Information Systems Delft
Thompson, Dean	Federal Aviation Administration
Thurling, Andrew	Northeast UAS Airspace Integration Research Alliance (NUAIR)
Trego, Jonas	General Atomics Aeronautical Systems, Inc.
Turner, Jessie	The Boeing Company
Van Hook, Gerald	Federal Aviation Administration (FAA)
Van Trees, Stephen	Federal Aviation Administration (FAA)
Vilante, Anthony	Federal Aviation Administration (FAA)
Wada, Douglas	NASA
Walker, Don	Honeywell International, Inc.

<b>Name</b>	<b>Organization</b>
Weich, Samuel	Ligado Networks
Williams, Jim	JHW Unmanned Solutions LLC
Williams, Kevin	Federal Aviation Administration (FAA)
Wilson, Amelia	The Boeing Company
Wilson, Ian	The Boeing Company
Yun, Stephen	The Boeing Company

DRAFT