

RTCA SC-228
Summary of Plenary 17 – RTCA Paper No: 027-19/SC228-059
Washington, DC
1:00 p.m., Thursday, October 25, 2018

The seventeenth Plenary of RTCA Special Committee 228 was called to order by SC-228 Co-Chair, John Moore at 1:00 p.m. (EST) on 25 October 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 and stated the purpose of the meeting was to provide status and gain the approval to release C2 Link MASPS into FRAC.
 - 1.2. John reviewed and received concurrence on the agenda. Reference “180913 SC-228 17th Plenary Main Slides.pdf” for slides used during plenary. These slides are on the RTCA workspace website.
2. Agenda Item #2 – Review RTCA meeting guidelines
 - 2.1. AI Secen reviewed the Anti-Trust Policy.
 - 2.2. AI then reviewed the Proprietary Policy and RTCA Committee Participation Membership Policy.
 - 2.3. AI asked everyone in attendance to sign in via the roster or provide contact information on the new member sheet.
3. Agenda Item #3 – Opening Remarks/ Introductions
 - 3.1. John reviewed the Leadership Team for SC-228 and stated that SC-228 membership has increased from 550 to 557 registered members.
 - 3.2. John highlighted current events in the UAS community. Specifically, on 10/18 the FAA approved civil BVLOS operations to Avitas allowing them to use radar for perimeter detection. And, on 10/23 Insitu received a type certification on the ScanEagle 3.
 - 3.3. Roll Call – The complete list of session participants is listed in Appendix A.
4. Agenda Item #4 – Approve meeting minutes from Meeting #16
 - 4.1. John reviewed the key points of Plenary #16 Minutes as documented.
 - 4.2. Acceptance of Plenary #16 minutes; moved by Marv Hammond, 2nd by Jim Williams– unanimously approved.
5. Agenda Item #5 – Approve FRAC Release for C2 Link MASPS
 - 5.1. Jim Williams reviewed the document outline and acknowledged the key contributors and lead authors.
 - 5.1.1. Jim indicated that the team did not attempt to address network aspects in this iteration; it will be addressed in Rev. A.
 - 5.1.2. The scope of the MASP is the C2 Links System and focuses on the Technology specific links.
 - 5.1.3. The process the WG used is based on DO-264; renamed “interoperable” to “interworking” to handle stabling and switching connections.

- 5.2. During the initial RAC 673 comments and 74 non-concurs. Adjudication was complete on 10/24. Jim requested Plenary consensus to move to FRAC with a 30 day review from 11/1-11/30. Comments will be adjudicated at a face to face meeting in January with the expectation to receive a final approval at Plenary 18- prior to the March 2019 PMC.
- 5.3. John called for a hand vote for those present and a verbal for those on the phone. Consensus was achieved.
6. Agenda Item #6 – WG1 Status Report presented by Ted Lester
 - 6.1. Bi-weekly meetings are on-going and ACAS-xu held a meeting last week.
 - 6.2. Review and comment (RAC) of the Ground-based Radar MOPS has commenced in preparation of the December meeting.
 - 6.3. DO-365 draft will be ready in January.
7. Agenda Item #7 – WG2 Status Report presented by Jim Williams
 - 7.1. Weekly meetings are on-going.
 - 7.2. The WG will continue to develop the CONOPS, Rev. A of the MASPS, make updates to the Terrestrial C2 standard and the support the development of the ka/ku standard.
8. Agenda Item #8 – New Business
 - 8.1. John indicated the need to institute a quarterly rhythm for the Plenaries that align to TOR deliverable dates. Currently planning for the third or fourth Thursday of January, April, July and October.
 - 8.1.1. WG1 has 5 deliverables- two in 2019 and three in 2020.
 - 8.1.2. WG2 has a waterfall schedule with a continuous cycle of FRACs in 2019.
 - 8.2. John mentioned that SC-147 is requesting input (i.e., review and comment) from SC-228.
 - 8.3. Lee Nguyen presented on behalf of Kyle McMullen of SC-135 (ground station environment). Lee provided background and status of their work activities.
 - 8.3.1. SC-135 and EURCAE-114 are working jointly on ground equipment standards by 2021. To that end, they are working to align schedules with RTCA-135, -228 and -147.
 - 8.3.2. Document headers were compared and were found to be consistent. An additional four sections unique to ground equipment were included. To date, approximately one-half of the sections have been completed. They are expected to enter FRAD in June of 2019 and advance to the PMC in May of 2020.
 - 8.3.3. The equipment environment qualification standard is will accommodate all variants of ground equipment leveraging DO-164 (airborne environment qualification standard) and other existing standards.
 - 8.3.4. Steve Van Trees asked if Tech Ops is doing anything that SC-135 can leverage.
9. Agenda Item #9 – Adjourn
 - 9.1. Marv Hammond moved to adjourn with a 2second from Michael Neale unanimously approved. The Plenary adjourned at 2:04 p.m.

Kristina Carr
Secretary, RTCA SC-228

CERTIFIED as a true and accurate summary of the Meeting.

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John Moore
Co-Chair, RTCA SC-228

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Appendix A – List of SC-228 Plenary Participants [please update]

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

Company	Name
Adaptive Aerospace Group	Hoffler, Keith
Air Line Pilots Association (ALPA)	Ingham, Edward
	Reed, Mark
Airbus	Lawson, James
ARCON Corporation	Colbert, Dennis
	Khomchuk, Petro
BAE Systems	Schultz, David
Cobham Aerospace Communications	Knickelbein, Jeffrey
Electronics and Telecommunications Researc...	Kim, Hee Wook
Federal Aviation Administration (FAA)	Aurandt, Kevin
	Campbell, Paul
	Carr, Kristina
	Chen, David
	Farrier, Thomas
	Georgiou, Peter
	Hinaman, Arthur
	Hirt, Ruth
	Jain, Ravi
	Mariano, Sheila
	Neale, Michael
	Nellis, Don
	Nguyen, Lee

<u>Company</u>	<u>Name</u>
Firebird SE LLC	Eckstein, Bruce
General Atomics Aeronautical Systems, Inc.	Kunzi, Fabrice
	Suarez, Brandon
	Trego, Jonas
Harris Corporation	Boci, Tony
Honeywell International, Inc.	Fern, Lisa
	Malaga, Alfonso
	Walker, Don
INMARSAT	Feliachi, Rym
JHW Unmanned Solutions LLC	Williams, Jim
Kitty Hawk	Coyle, Phillip
	Fisher, Nate
Ligado Networks	Weich, Samuel
Lockheed Martin Corporation	Terry, Ryan
MIT Lincoln Laboratory	Edwards, Matthew
Mosaic ATM, Inc.	Carros, Peter
NASA	Brandt, Summer
	Clements, Donna
	Cone, Andrew
	Connolly, Jack
	Eng, Daniel
	Hoang, Ty
	Kerczewski, Robert
	Lewis, Todd
	Rorie, Conrad
	Roth, Danny
	Shively, Robert
	Wada, Douglas
	Wu, Gilbert
Regulus Group	Benner, William
	O'Leary, Michelle
	Pagano, Thomas
Rockwell Collins, Inc.	Barney, Tyler
	Moore, John
RTCA, Inc.	Secen, Al
Sagetech Corporation	Davis, James
SAIC	Lombard, Kolie
Seamatica Aerospace Limited	Borshchova, Iryna
Square Peg Communications, Inc.	Gertsman, Michael

<u>Company</u>	<u>Name</u>
The Boeing Company	McDuffee, Paul
	Suarez, Cesar
	Wilson, Amelia
	Wilson, Ian
The MITRE Corporation	Arnstein, Donald
	Fenlason, Norman
	Lester, Ted
Transport Canada	Bloch-Hansen, Craig
	Diodati, Enzo

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