

AEEEC

Together "We Set the Standard."



SAI Subcommittee June 25, 2020

Online meeting

June 2020 SAI/GAT: L3HARRIS London Training Center



SAI Subcommittee Meeting: June 24-26, 2020

Global Aircraft Tracking: Mon-Wed (22-24)

SAI: Wed-Fri (24-26)

Host: L3HARRIS Commercial Aviation. 2-3 Gatwick Road, Crawley UK



TOPICS FOR TODAY

- ▶ AEEC GENERAL SESSION SUMMARY
- ▶ ICAO Global Aeronautical Distress and Safety System
 - ▶ Timely Recovery of Flight Data (TRFD)
- ▶ 5G Telephony, Spectrum Update & Impact on Aviation
- ▶ CNS Distributed Radios - ARINC Project Paper 678
- ▶ New AEEC Project Proposals (APIMs)
- ▶ Next SAI Subcommittee meeting
- ▶ AEEC Mid-Term Session Plan

2020 AEEC GENERAL SESSION ONLINE BY THE NUMBERS

- ▶ MAY 12 and May 14 via WebEx
 - ▶ 107 People attended AEEC General Session online
 - 39 People from 15 airline/MROs
 - 68 People from airframe, supplier, service organizations, & staff
 - ▶ 12 New ARINC Standards Adopted
 - 2224 pages of technical content
 - 7 APIMs were closed
 - ▶ 5 New Projects (APIMs) Approved
 - 2 ARINC Standards initiated
 - 41 ARINC Standards presently in work, 15 new + 26 Supplements
- Everyone's personal Hospitality Suites were open - at home

RESULTS

12 ARINC STANDARDS (1 OF 2)

1. ARINC Specification 485-4: Cabin Equipment Interfaces, Part 1, Head End Equipment Protocol
2. ARINC Specification 485-5: Cabin Equipment Interfaces, Part 2, Physical Layer – In-Seat Protocol
3. ARINC Specification 620-10: Datalink Ground System Standard and Interface Specification (DGSS/IS)
4. ARINC Specification 628-4: Cabin Equipment Interfaces, Part 5, Cabin Electrical Equipment and Wiring Installation Guidelines
5. ARINC Specification 631-8: VHF Digital Link (VDL) Mode 2 Implementation Provision
6. ARINC Specification 661-8: Cockpit Display System Interfaces to User Systems, Part 1, Avionics Interfaces, Basic Symbolology, and Behavior
7. ARINC Specification 661: Cockpit Display System Interfaces to User Systems, Part 2, User Interface Markup Language (UIML)

RESULTS

12 ARINC STANDARDS (2 OF 2)

8. ARINC Report 686: Roadmap for IPv6 Transition in Aviation
9. ARINC Specification 800-1: Cabin Connectors and Cables, Part 4, Standard Test Methodology
10. ARINC Specification 834-8: Aircraft Data Interface Function (ADIF)
11. ARINC Specification 848: Media Independent Secure Offboard Network
12. ARINC Specification 854: Cabin Equipment Network Bus

1 NEW APIM 4 UPDATED APIMS

The AEEC Executive Committee initiated five new projects as follows:

APIM 20-001 - Preparation of ARINC Project Paper 792A: Multi-Modem Ku/Ka Satcom System with Fiber Optic Interfaces

APIM 19-008A - Preparation of ARINC Project Paper 748: Airborne Weather Radar with Advanced Antenna Technology

APIM 19-009A - Preparation of Supplement 5 to ARINC Characteristic 718A: Mark 4 ATC Transponder (ATCRBS/MODE S)

Preparation of ARINC Project Paper 735C: Traffic Computer, ACAS-X and ADS-B Functionality

APIM 17-002B - Preparation of Supplement 9 to ARINC Specification 631: VHF Digital Link (VDL) Mode 2 Implementation Provisions

APIM 09-009D - Electronic Flight Bag (EFB) Users Forum – 3-year Extension of Activity

AEEC's On-Line Work Program: March 2020 to Dec 2020

On-line Hours per Month (draft - updated June 11, 2020)

	Activity	Name	M	A	M	J	J	A	S	O	N	D	Number Mtgs	Total Hours
1	AEEC EXCOM	AEEC General Session / AEEC Mid-Term	2	1	4	1	1	1	1	4	1	1	12	17
2	AGCS	Air-Ground Communications and Satcom	0	0	1	0	0	2	0	2	0	1	4	6
3	AOC	AOC Messaging	2	2	2	18	2	2	2	2	15	2	19	49
4	APEX	Application Executive Software	10	0	0	2	0	0	4	0	0	0	6	16
5	CDS	Cockpit Display Systems	10	8	4	2	2	2	2	2	2	2	17	36
6	CSS	Cabin Systems	0	4	4	4	4	4	4	4	4	4	18	36
7	DLK Sys	Data Link Systems	2	4	0	2	18	2	2	2	2	16	14	50
8	DLK Users	Data Link Users Forum	0	1	0	1	1	0	6	0	0	1	6	10
9	EFB	Electronic Flight Bag	2	2	2	4	12	2	2	2	12	2	14	42
10	EFB Users	EFB Users Forum	1	1	1	1	1	5	1	1	1	1	11	14
11	GAIN	Galley Inserts	2	6	2	6	2	2	3	2	2	2	13	29
12	IPS	IPS for Aeronautical Safety Services	22	2	2	10	2	2	10	2	2	6	20	60
13	KSAT	Ku/Ka-Band Satellite System Cabin	2	2	2	18	2	2	2	2	17	2	14	51
14	NDB	Navigation Data Base	1	5	12	4	0	0	0	0	0	0	8	22
15	NIS	Network Infrastructure and Security	1	4	4	12	4	4	4	12	4	4	18	52
16	SAI	Systems Architecture and Interfaces (& Radio)	0	0	0	2	0	2	0	2	0	2	4	8
17	SDL	Software Distribution and Loading	0	3	3	3	3	3	3	3	3	3	18	27
18	TRFD	Timely Recovery of Flight Data	2	4	2	18	2	2	2	18	2	2	17	54
19	XPDR	Traffic Surveillance and ISS	10	3	3	3	10	3	3	3	10	3	20	48
20	WXR	Weather Radar	8	3	3	3	8	3	3	3	8	3	20	45
													273	672

*NOTE: Compare to 150 meeting days per year or 1050 hours typical

Future AEEC Meetings

AEEC Mid-Term Session / AEEC General Session

2020

October 7 (SAI) - October 8 (AEEC)

Online meetings proposed

2021

Tampa Marriott Waterside Hotel

In-person meeting details to be defined

Tampa, Florida

May 10-13, 2021

ARINC'S INTELLECTUAL PROPERTY (IP) POLICIES

- ▶ The ARINC Patent Policy covers patented technology and copyrighted material (e.g., software) required to comply with an ARINC Standard.

This policy allows the AEEC to consider proprietary technology for inclusion in an ARINC Standard -- If it provides significant technical or economic benefit over non-proprietary technology.

- ▶ The policy has two distinct requirements:

A participant must disclose if the use of any patented, patent pending, or copyrighted technology is required to comply with an ARINC Standard being developed. This disclosure must be provided in writing to the AEEC Executive Secretary.

When invited, the proponent must sign a Commitment to License the technology under reasonable and non-discriminatory terms.

- ▶ By signing the attendance book or by submitting material for consideration at the meeting, you confirm that you understand the policies and agree to comply with them.

The policies are available at: www.aviation-ia.com

THANK YOU