Cabin Systems Subcommittee

Meeting Agenda

February 21-23, 2017 Tempe, Arizona

Dale Freeman, DAL, Chairman Gerald Lui-Kwan, Boeing, Co-Chairman Rolf Gödecke, Airbus , Co-Chairman



Cabin Systems Meeting Agenda

- Introductions
 - Special Notes
 - Intellectual Property (Patent & Copyrights)
 - APIM Guidelines
 - Members and Corporate Sponsors
 - Acceptance of Previous Meeting Report (17-011/CSS-589)
 - Current Drafts
 - Draft 4 of Supplement 1 to ARINC 800 Part 2
 - Draft 4 of Supplement 1 to ARINC 800 Part 3
 - Draft 3 of Supplement 3 to ARINC 664 Part 2
 - Draft 3 of ARINC Project Paper 836A
 - Draft 1 of Supplement 8 to ARINC 628 Part 1
 - Draft 2 of Supplement 9 to ARINC 628 Part 2
 - Draft 1 of Supplement 5 to ARINC 628 Part 9
 - Draft 1 of Project Paper 820
 - Working Papers Identification
 - Proposed APIM 17-007 MultiGigabit CWAP (802.11ac Wave 2)
 - Proposed APIM on LOS Connectivity
 - More To be Added

Objectives

- Review of Current CSS Program
- Connectors and Cables
 - Supplement 1 to A800 Part 2 (Specification of Connectors)
 - ▶ 10 Gbps Ethernet 8ax Contact
 - Supplement 1 to A800 Part 3 (Specification of Cables)
 - Fiber Optic Connectors
- ARINC 836A mini-modules
- PP648 -- Guidance for Seat Production Testing
- Supplement 8 to ARINC 628 Part 1
 - HD Landscape Camera and 4K Video
 - CWAP Automatic Region Code Adaptation
 - MultiGigabit CWAP
- Cabin Network Expansion
- Supplement 5 to ARINC 628 Part 9
- Project Paper 820 (Wireless Networks)
- New Business
- New Cabin LAN Definition
 - ARINC 664, Part 2
 - Seat Interfaces PP 8XX, Part 1
 - Lighting Interfaces PP 8XX, Part 2
- ARINC 664 Part 2 (10 Gb Ethernet)
- Agenda and Location for Next Meeting

Tuesday, 9:00 AM – 5:00 PM

Current CSS Program	Delta/IA
 Review of current program 	CSS
Discussion of Proposed Standardization Project	CSS
 Cabin & cargo video surveillance system 	Latecoere
Review ARINC 800, Part 2 (Specification of Connectors)	CSS/CWG
 Develop a proposal for color band marking on the 8ax contact (A800P2-102) 	Amp/Radiall
 Incorporate strawman input from Radiall/Amphenol into the next draft of A800P2 (A800P2-103) 	IA
 Revise pictures of contacts to denote type 1 and 2 and change nomenclature (A800P2-104) 	Amp/Radiall
 Revise contact drawings (A800P2-105) 	Amp/Radiall
 Update table 3-4 and propose qualification requirements for the 8ax contact (A800P2-106) 	Amp/Radiall
Review ARINC 800, Part 3 (Specification of Cables)	CWG
 Review Section 4.1.1.3 data cable temperature - 200 degrees C vs 135 degrees C (A800P3-34) 	Airbus/Boeing
 Revise tables in section 2.2 to include US customary units (A800P3-35) 	IA
Fiber Optic Connectors (PP846)	CSS
 Update status of PP846 development 	IA
 Verify the 125C temp requirement is adequate for MT termini (FOWG-20) 	Boeing
 Provide response to FOS on input for the 4165 MT fiber insert (FOWG-23) 	IA
Review ARINC Project Paper 836A (Mini-MRP)	CSS
 Include frame drawing view for the bonding spring clip height above the enclosure. (836-57) 	IA
 Provide connector centerline dimensions (836-58) 	Suppliers
 Complete envelope drawings for the frame and enclosure for the Mini-Mor (836-59) 	IA
 Define frame and box reference planes (836-60) 	Molex

Wednesday, 9:00 AM - 5:00 PM

•	PP6 	548 - Guidance for Seat Production Testing Develop input for sections 1.1 and 1.2. Include Airbus seat testing strawman material (648-1) Provide a block diagram of testing that can be performed at the Seat Supplier. (648-7) Review Thales document on a data driven seat process for seat acceptance (648-11) Clarify/revise page 5 subparagraphs 2 & 3 and integrate with Zodiac diagrams (648-14)	CSS Panasonic IFE Suppliers IFE suppliers Thales
		Prepare ATP template, remove supplier-specific references (648-15) Revise Figure 1-1 (648-20) Propose a draft of Section 2.0 Introduction (648-22) Draft Section 2.3.1 – IFE (648-23) Provide a draft of Section 3.2.1 – IFES (648-30)	IA/BE IA IA Thales/PAC/Zii PAC/Thales/Zii
		Contact Amsafe to address Sections 2.3.5 and 3.2.5 (Airbags) (648-32) Section 1.5 - specify what each review contributes to seat testing. (648-35) Section 2.1 Develop initial prose for this section (648-36) Propose new wording for replacing troubleshooting and rework (648-38) Add a note to LRU flow for direct signals from the aircraft (e.g., emergency lights) (648-39) Provide a description of the scope of the testing of IFE equipment in the seat.(648-40) Update section 2.1 on Grounding and Bonding (648-41) Setup webex and teleconference for December (648-42)	IA IA IA/ZSF/BEA IA IA IFE suppliers BEA/ZSF IA

Wednesday, 9:00 AM – 5:00 PM (continued)

Supplement 8 to ARINC 628 Part 1 – CWAP GCOM/HD Landscape Camera	CSS
 GCOM Updates 	ZII
 Use of frequencies in the 5 GHz band 	Airbus
 Review and revise Att 17 video formats and integrate APEX EETWG requirements (628 P1-195) 	Thales
 Provide substantiation for the 5 mbps stream rate for h.265 4K format - 17.2.6.1.1 (628P1-199) 	Latecoere
 Review draft of HD Video Camera video formats/support of H.265 Profile 5 (628P1-200) 	IFE suppliers
 Develop APIM for next generation CWAP (628P1-201) 	VT Miltope
 Review Draft APIM on MultiGigabit CWAP (802.11ac Wave 2) 	CSS
Consider Cabin Network Expansion (5GCN?) APIM	CSS
 Boeing proposal for A808/A809 updates 	Boeing
Supplement 9 to A628P2 (USB 3.1) – close action items	CSS
 Create Review draft and circulate for adoption action (628-P2-28) 	IA
Review Draft 1 of Supplement 5 to ARINC 628 Part 9	CSS
 Review IP address allocations for new 100baseT1 seat devices (A628P9-12) 	Thales
Review Draft 1 of Project Paper 820 (Wireless Network)	CSS
 Propose power consumption value for section 2.2.1 assuming POE for CWAPs (820-11) 	RCI
 Arrange meeting with BCA Renton to discuss standard disconnect strategy (820-15) 	Boeing
 Detail review of Thales/Boeing Draft 	CSS

Thursday, 9:00 AM – 12:00 Noon

New Business	CSS
 Propose a behavior document for wireless systems (CSS-M-1) 	RCI
 Airbus-proposed APIM on A2G Communications 	Airbus
Supplement 4 to ARINC 664, Part 2 (New Cabin LAN)	CSS
 Discuss Needs and Requirements for 100/1000 BASE T1 Definition 	CSS
New Cabin LAN (Seat Interfaces) – Project Paper 8XX Part 1	CSS
 Create ad-hoc WG to develop a proposal for the seat bus protocol/addressing (8XX-001) 	Thales
 Review Strawman proposal for seat bus protocol 	Thales
New Cabin LAN (Lighting Interfaces) – Project Paper 8XX Part 2	CSS
 Initiate project for definition of Lighting Interfaces for new cabin LAN standard 	CSS
Supplement 3 to ARINC 664, Part 2 (10 Gb Ethernet)	CSS
 Add voltage ranges to Table 3-1 (664P2-10) 	IA
 Review new 802.3bz specification and applicability and impact to your systems (664P2-11) 	CSS
 Develop next draft of A664P2 (664P2-12) 	IA
Discuss agenda and locations for next meetings	All
Adjourn CSS	

2016-2017 CSS Meetings Planning (Tentative)

	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep
CSS S/C	1 – 3 Newark			21-23 Tempe, Arizona			16-18 Sedan, FR (tentative)			22-24 Riga, Latvia (tentative)	
Connector WG	Same as CSS			Same as CSS			Same as CSS			Same as CSS	
Ku/Ka SatCom SC			10-12 Melbourne, FL					6-8 Annapolis (Tentative)			
GAIN S/C											
	No			Meetings I	Planneo I	d I	I				
NIS	15-17 Portland, OR										
FOS			24-26 St. Augustine					13-15 Avon. CT			
SAI				14-16 Coral Gables							
ΑΡΕΧ								TECH 13-15 Los Angeles			EXPO 25-28 Long Beach
AEEC							1-4 General Session Milwaukee				