Cabin Systems

(CEI / 3GCN / 4GCN / SI / CC)

Meeting Agenda

November 11-13, 2014 Menlo Park, California

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



Cabin Systems Meeting Agenda

Introductions

- Special Notes
 - Status of ARINC Industries Activities Transition to SAE
 - Intellectual Property (Patent & Copyrights)
 - APIM Guidelines
 - New Members and Corporate Sponsors
- Acceptance of Previous Meeting Report (14-137/CSS-547)
- Current Drafts
 - Draft 1 of Supplement 2 to ARINC 404B New
 - Draft 6 of Supplement 7 to ARINC 628 Part 1 (CWAP) New
 - Draft 1 of Supplement 1 to ARINC 832
 - Draft 1 of Supplement 4 to ARINC 628 Part 9
- Working Papers Identification
 - Airbus/IA Strawman for Supplement 1 to ARINC 836 (mini modules)
 - ▶ Boeing Strawman for Project Paper 800 Part 4 (Ethernet Testing)
 - Draft APIM for Seat Production Testing Guidance
 - Current CSS Work Program

Objectives

- Discuss Current CSS Work Program
- Provide Guidance to the CWG
 - Supplement 1 to A800 Part 2 (Specification of Connectors)
 - Strawman for PP800 Part 4 (Ethernet Testing)
 - Goals and Requirements for 10 GbE Contact
 - Draft 1 of Supplement 2 to ARINC 404B
- Fiber Optic Hybrid Connectors/Cables
- Supplement 1 to A836 (Mini-MRP)
- Discuss Options for Supplement 7 to A628 P1 (CWAP)
- Project Paper 820 (Wireless Network)
- Supplement 3 to A628 Part 0
- Review Seat Integration Activities
 - FAA/EASA Outlet Protection (A809/A832/A628P2)
 - Supplement 1 to A832 (Copper/FO Hybrid)
 - New Proposal for Seat Production Testing APIM
- ▶ 10 GbE ARINC 664 Part 2
- Supplement 4 to A628 P9 (Cabin Information Network)
- Summary from CWG
- Agenda and Location for Next Meeting

Tuesday-Wednesday, 9:00 AM - 5:00 PM

•	CSS Work Program	CSS
	CSS/CWG Joint Session	All
	 ARINC 800, Part 2 (Specification of Connectors) 	CWG
	Provide graphic for the 30-23 insert for Figure 4-1b (A800P2-65)	Amphenol
	 Revise the reference datum of the fixation groove to the front of the flange (A800P2-69) 	TEC/Amphenol
	Revise drawings and notes on Figures A-7a and A-7b (A800P2-70)	TEC
	 Add diameter range for 22, 24, and 26 AWG wire for data interconnect (A800P2-71) 	Thales
	 Verify voltage range, dielectric max voltage, and max current for 30-23 RM (A800P2-72) 	Thales
	Provide justification for inclusion of the 30-23 insert (A800P2-74)	Thales
	 Review Strawman of PP800, Part 4 (Cable Testing) 	Boeing
	 Review proposed test configurations and perform adapter cable testing (A800P4-2) 	Suppliers
	 Add a note to Table 3-1 to identify why specific cells are highlighted (A800P4-3) 	Boeing
	 Schedule test adapter cable verification criteria discussion (A800P4-4) 	Boeing/IA
	Develop a draft of A800P4 for review at the next meeting (A800P4-5)	Boeing/IA
	 Proposed Supplement 2 to ARINC Specification 404B 	IA
	 Verify that the table in Fig 3 for single connector measurements are correct (A404B-1) 	Suppliers
	 Discuss Goals and Requirements for 10 GbE Contact 	CSS/CWG
	- Fiber Optic (Project Paper 845)	CWG
	 Provide use cases for implementation of MT termini (CWG-11) 	Airbus/Thales
	 Distribute the latest draft of A845 to IFES suppliers (CWG-13) 	IA
	 Review latest draft of A845 for FO xcvrs interoperability with EB termini (CWG-14) 	IFE Suppliers
	 Supplement 1 to ARINC Specification 836 (Mini-MRP) 	CSS
	Review proposal for PCB spatial location and connector external position (A836-28)	Suppliers
	Distribute the Molex MMRP slot location presentation from Gdansk (A836-29)	IA
	 Consolidate the weight information in section 4.1 into a table (A836-30) 	Airbus.
	 Add wording in section 5 re: floating plug on tray/ fixed receptacle on enclosure (A836-31) 	Airbus
	Develop first strawman for A836 supplement 1 (A836-32)	IA/Airbus

Wednesday, 9:00 AM - 5:00 PM

•	Options for Supplement 7 to A628 P1 (CWAP)	CSS
	Update Figure 18-7 in Attachment 18 and Figures 18-6 and 18-5 (628P1-190)	Boeing/IA
	 Revise figure 18-2 to pin 4=Y, pin 5=R, pin 9=B, pin 10=G. Revise table wording (628P1-191) 	IA
	 Revise Attachment 18 to incorporate changes to the wiring to the DOM (628P1-192) 	IA
	 Revert section 16.3 to the version in draft 6 (628P1-193) 	IA
	 Revise figure 17-1 to remove colors from the ethernet interconnects (628P1-194) 	IA
	 Incorporate revised figures and tables for CWAP connector pin assignments (628P1-195) 	IA
•	Project Paper 820 (Wireless Network)	CSS
•	Discuss Supplement 3 to A628P0	CSS
•	Supplement 4 to A628, Part 9 (Cabin Information Network)	PAC
	 Use cases and configuration for multi domain, single control panel use. (A628P9-4) 	CSS
	 Investigate possible development of USB port control requirements (A628P9-5) 	Boeing/PAC

Thursday, 9:00 AM – 12:00 PM

•	Seat Integration Issues	CSS				
	Seat Production Test Guidance	CSS				
	 Review Airbus proposal for ARINC Report seat production test requirements (CSS-1) 	OEM/Suppliers				
	FAA/EASA Outlet Protection (A809/ A832/ A628P2)	CSS				
	 Revise APIM 10-005C to update Section 2.2 to include new power guidance (628P2-23) 	IA				
	 Supplement 1 to A832 (copper/FO hybrid) 	AB/Thales				
	 Review Sections 2.0 and 5.0 to verify ethernet wiring in overhead network (832-162) 	Airbus				
	 Revise Figures 5-10 and 5-11 to show DOMs/CWAPs in the overhead network (832-163) 	Airbus				
	 Supplement 4 to A485P2 and Supplement 3 to 485P1 (BITE) 					
	 Revise message sequence diagrams E-1 through 3/ ECU option to soft boot (485-P2-17) 	PAC				
	Develop coordination Draft 2 of 485P2 for distribution (485-P2-18)	IA				
	Develop coordination Draft 1 of 485P1 for distribution (485-P1-12)	IA				
	ARINC Specification 664, Part 2 (10 Gb Ethernet)	CSS				
	 10 Gbe Matrix - POE power compared to the IEEE specification (CWG-10) 	AB/B/Thales				
	 Develop first draft of supplement 3 for 10 GbE requirements (664P2-4) 	Boeing				
	 Prepare briefing to FOS for updates to A803 and A804 (664P2-5) 	IA/Lumexis				
•	Summary Report from the CWG Work (A800, PP845, and A664P2)	CWG				
•	Discuss agenda and locations for next meetings	All				

Thursday, Post-meeting (Optional)

- Tour of TE Connectivity Menlo Park Laboratories
 - Aerospace Advanced Development (R&D) Activities
 - Carbon Nano Tube Technologies
 - Composite Materials
 - Thermal Modeling
 - Aircraft Antennas
- Pizza Dinner Hosted by TE Connectivity (details TBD)

Connector Working Group

- Tuesday:
 - Meet with the CSS to discuss connector issues needing further guidance
- Wednesday-Thursday
 Continue meeting to develop recommendations for Gigabit Ethernet test methods,
 A832 connections, hybrid fiber optic connectors, and 10Gb Ethernet
 - See the CWG agenda distributed separately

	2014-2015 CSS Meetings Planning (Tentative)											
	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
CSS S/C	12-14 Warne- münde Germany			11-13 Menlo Park			9-11 Cocoa Beach (tentative)			TBD		
Connector WG	Same as CSS			Same as CSS			Same as CSS			Same as CSS		
Ku/Ka SatCom SC						20-22 Cocoa Beach						
GAIN S/C	GAIN S/C No Meetings Planned											
NIS		23-25 Renton, WA					11-13 Cocoa Beach (tentative)					
FOS				4-6 Newark, Delaware			Same as CSS					
SAI			20-21 Brussels									
APEX		15-18 EXPO Anaheim, CA		17-18 TC						12-13 TC		
AEEC			24 Mid-Term Session Brussels						27-30 General Session Prague			