Cabin Systems

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

Meeting Agenda

May 10-12, 2016 Lisbon, Portugal

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 (16-055/CSS-576)
- Current Drafts
 - Draft 6 of Supplement 1 to ARINC 832 Adopted April 25 by AEEC
 - Draft 3 of Supplement 1 to ARINC 800 Part 2 New
 - Draft 2 of Supplement 1 to ARINC 800 Part 3
 - Draft 1 of Supplement 3 to ARINC 664 Part 2
- Working Papers Identification
 - Approved APIM 16-005 for Multiple Standards
 - Airbus Proposal for Cabin Lighting Interface Standard
 - Glenair Patent: Electrical Connector for High-Speed Transmission Using Twisted Pair Cable
 - ARINC 800 Part 3 Strawman for Hybrid Cable TEC and ARINC IA
 - Updated Strawman Input for PP836A Mini-MRP Molex
 - Radiall proposal for Project Paper 836A Connector Interface
 - TEC proposal for Project Paper 836A Connector Interface
 - BAE recommendations for new cabin LAN interfaces

Objectives

- Review of Current CSS Program and Results from AEEC General Session
- Connectors and Cables
 - Supplement 1 to A800 Part 2 (Specification of Connectors)
 - 10 Gbps Ethernet Octo-ax Contact Concepts
 - Supplement 1 to A800 Part 3 (Specification of Cables)
 - Fiber Optic Connectors
- ARINC 836A mini-modules
- PP648 -- Guidance for Seat Production Testing
- ▶ HD Landscape Camera A628 Part 1
- CWAP Automatic Region Code Adaptation A628 Part 1
- Initiate USB 3.1 Updates to A628P2, A809, A832
- Initiate Supplement 4 to ARINC 628 Part 9
- Project Paper 820 (Wireless Networks)
- New Seat LAN Definition
- Close Action Items for Supplement 1 to A832 (Copper/FO Hybrid)
- Proposed Change for ARINC 628 Part 5 (Wiring Installation)
- Cabin Lighting Interface
- 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
	 Results/feedback from AEEC General Session (April 25 through April 28) 	Delta/IA
•	ARINC 800, Part 2 (Specification of Connectors)	CSS/CWG
	 Create a drawing for A800P2 16-10 insert for inclusion in the specification (A800P2-86) 	Amp/TEC
	 Provide EN4165 references to replace drawings for accessories and shells (A800P2-90) 	TEC
	 Provide rationale for the hermetically sealed satcom bulkhead connector (A800P2-93) 	Airbus
	 Provide a proposal for the 10Gb Oct contact at the May meeting (A800P2-94) 	Suppliers
	Provide wording for section 3.1.4 from PPA845 (A800P2-95)	Airbus
	 Provide maximum weights for the 30 #23 for table A-1 (A800P2-96) 	Amphenol
	 Contact Glenair and identify patent claims if any on the Oct Contact (A800P2-97) 	IA
•	10 Gbps Ethernet Octo-ax Contact Concepts	CSS
	- Positronics	
	 Amphenol/Radiall 	
•	ARINC 800, Part 3 (Specification of Cables)	CWG
	 Review the proposed electrical properties for sections 4.1.4 and 4.1.5 (A800P3-25) 	Boeing
	 Propose a strawman update for the new hybrid fiber/copper cable (A800P3-27) 	TEC/IA

Tuesday, 9:00 AM – 5:00 PM (Continued)

Fiber Optic Connectors (PP845 and PP846)

Status of Project Paper 845

Determine whether their FO xcvrs are compatible with A845 termini (CWG-14)

Add design guidance for placement of fiber termini in an insert to A803 (CWG-15)

Notify FOS to specify specific insert arrangement for A600 connector (CWG-16)

Section 2.4 needs to reference the same fiber types as the previous table. (CWG-18)

Section 2.4.4.3 - correct reference for "resistance to fluids" requirements (CWG-19)

Verify the 125C temp requirement is adequate for MT termini (CWG-20)

ARINC Project Paper 836A (Mini-MRP)

Intermateability requirements of connectors in the mini-MRP (836-41)

Provide proposed simplified drawings for the A836 Mini-MRP (836-43)

Provide information on the proposed connectors (836-44)

Distribute the connector information received from AI 836-44 (836-48)

Incorporate connector insertion and removal force information into strawman (836-49)

CSS

IFE Suppliers

FOS/IA

IΑ

IA IA

Boeing

CSS

TEC, Mx, Amp

Molex

Suppliers

IA

Molex

Wednesday, 9:00 AM - 5:00 PM

•	PP648 - Guidance for Seat Production Testing	CSS
	 Develop input for sections 1.1 and 1.2. Include Airbus seat testing strawman material (648-1) 	Panasonic
	 Provide a block diagram of testing that can be performed at the Seat Supplier. (648-7) 	IFE Suppliers
	 Review Thales document on a data driven seat process for seat acceptance (648-11) 	IFE suppliers
	Propose ATP template (648-12)	BEA
	 Update flow charts and test interconnect diagrams (648-13) 	Zodiac
	 Clarify/revise page 5 subparagraphs 2 & 3 and integrate with Zodiac diagrams (648-14) 	Thales
•	Supplement 8 to ARINC 628 Part 1 – CWAP GCOM/HD Landscape Camera	CSS
	 Review Latecoere proposed revisions to A628P1 for HD Landscape (628 P1-193) 	IFE Suppliers
	 Review and revise Att 17 video formats and integrate APEX EETWG requirements (628 P1-195) 	Thales
	 Consider the addition of 10Gb interface to the CWAPs (fiber vs copper) (628 P1-196) 	Suppliers
	GCOM Discussion Items	CSS
	CWAP Test Mode	Airbus
	 Status of Regulatory Situation/Coordination 	CSS
•	Initiate USB 3.1 Updates to A628P2, A809, A832	CSS
•	Initiate Supplement 4 to ARINC 628 Part 9	CSS
•	Project Paper 820 (Wireless Network)	CSS
	Review proposed strawman and provide comments (820-2)	Suppliers
	 Propose power consumption value for section 2.2.1 assuming POE for CWAPs (820-11) 	RCI
	 Clarify discretes input vs. output/ add discrete outputs RF Enable/ reference A628P1 (820-12) 	Boeing
	 Propose a disconnect strategy as an alternative to the WIU configuration for A820 (820-13) 	Thales
	 Add reference to A852 in section 4.3 (820-14) 	Boeing
•	New Seat LAN Definition	CSS
	 Provide proposals for a new seat LAN architecture (APIM-16-XX-01) 	CSS

Thursday, 9:00 AM – 12:00 Noon

•	Supplement 1 to A832 (copper/FO hybrid)	Airbus
	 Move the Fiber Optic termini from the outboard cavity locations to the middle cavities (832-169) 	IA
	 Reword or remove the notes following the figures for the seat to seat wiring diagrams (832-170) 	IA
	 Update note in Figure 3-2d and 3-3c to incorporate detailed callout of the A845 termini (832-171) 	IA
	 Fix figure 3-15b to remove fiber shunt from the drawing (832-172) 	IA
	 Update height of the CNU in the note for figure 5-2c (832-173) 	IA
	 Include SEU in the acronym list (832-174) 	IA
	 Prepare circulation draft and circulate for adoption review (832-175) 	IA
•	Proposed change for ARINC 628 Part 5 – Wiring Installation	Airbus
•	Cabin Lighting Interface	CSS
	 Refine scope of the proposed definition of smart lighting components (APIM-16-01) 	Airbus
	 Contact Diehl and solicit interest in this proposal (APIM-16-02) 	Thales
	 Contact BE Aerospace, Schott and Emteq and solicit interest in this proposal (APIM-16-03) 	BAE
	 Contact LSI and PECO solicit interest in this proposal (APIM-16-04) 	Astronics
	 Review Scope of SAE Interior Lighting Committee (A-20C) 	IA
•	ARINC Specification 664, Part 2 (10 Gb Ethernet)	CSS
	 SAE High Speed Connector Coordination 	IA
	 Propose revision to ARINC 664 Part 2 Appendix I for 26 AWG (664P2-6) 	Boeing
	 Incorporate existing Quad cabling for 10 Gb links of limited distance (664P2-7) 	Boeing
	 Update test plan section in A800 P2 to include the Cat 6a channel specification (664P2-8) 	IA
•	Discuss agenda and locations for next meetings	All
•	Adjourn CSS	

2016 CSS Meetings Planning (Tentative)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	ост	NOV
CSS S/C		9-11 Tucson			10-12 Lisbon			23-25 Ottobrunn			1 – 3 Newark
Connector WG		Same as CSS			Same as CSS			Same as CSS			Same as CSS
Ku/Ka SatCom SC	13-15 Cocoa Beach					21-23 Seattle				TBD	
GAIN S/C	No Meetings Planned										
NIS	12-14 Cocoa Beach					13-16 San Diego					
FOS	26-28 Oxnard CA					21-23 Mukilteo, WA					
SAI		9-11 Coral Gables, FL				14-16 London				11-12 Toulouse	
APEX						8-9 TEC Hollywood, CA					
AEEC			23-24 General Session Atlanta							13-14 Mid-Term Session Toulouse	