Cabin Systems

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

Meeting Agenda

February 9-11, 2016 Tucson, 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 (15-169/CSS-571)
- Current Drafts
 - Draft 5 of Supplement 1 to ARINC 832 New
 - Draft 2 of Supplement 1 to ARINC 800 Part 2 New
 - Draft 2 of Supplement 1 to ARINC 800 Part 3 New
 - Draft 1 of Supplement 3 to ARINC 664 Part 2
- Working Papers Identification
 - ▶ New APIM 16-XXX for Multiple Standards
 - ▶ A800P2 Bulkhead connector requirements Carlisle
 - Data Sheet for Glenair 10 Gbps Ethernet Octo-ax Contact
 - Status of Project Paper 845 FOS
 - Status of Project Paper 846 FOS
 - Strawman Input for Mini-MRP Molex
 - ▶ Response to Action Item 836-44 TE
 - ▶ Response to Action Item 836-45 TE
 - Strawman for ARINC 628P1 HD Landscape Camera Latecoere
 - Updated Strawman for Project Paper 820 Boeing

Objectives

- Review of Current CSS Program and Consideration of New Work Proposals
- Connectors and Cables
 - Supplement 1 to A800 Part 2 (Specification of Connectors)
 - 10 Gbps Ethernet Octo-ax Contact
 - 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
- Project Paper 820 (Wireless Networks)
- Supplement 1 to A832 (Copper/FO Hybrid)
- 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
	 Support for proposed APIM (HD Landscape Camera, USB 3.1, 628P9) 	CSS
	 Consider Proposal for standard lighting system interfaces 	Airbus
•	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
	 Contact Glenair on their interest in standardizing their Oct 10Gb contact design (A800P2-88) 	Souriau/Airbus
	 New section that references A845 Expanded Beam fiber contact (A800P2-89) 	IA
	 Provide EN4165 references to replace drawings for accessories and shells (A800P2-90) 	TEC
	 Revise Figures A-10a and A-10b to remove reference to number of fiber termini (A800P2-91) 	IA
	 Revise table A-1 to indicate nominal weight for 90 degree inserts (A800P2-92) 	IA
	 Review requirement for hermetic sealing for Ku/Ka bulkhead connector 	CSS/CWG
•	10 Gbps Ethernet Octo-ax Contact	CSS
•	ARINC 800, Part 3 (Specification of Cables)	CWG
	 Include values of transfer impedance into sections 4.1.4 and 4.1.5 (A800P3-23) 	IA
	 Provide reference to the transfer impedance appendix (A800P3-24) 	IA
	 Review the proposed electrical properties for sections 4.1.4 and 4.1.5 (A800P3-25) 	Boeing
	 Provide derating factor for IL and RL of two braided shields and foil braid/100m (A800P3-26) 	Boeing

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

Fiber Optic Connectors (PP845 and PP846)

- Distribute the latest draft of A845 to IFES suppliers (CWG-13)
- 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)
- Fix references to A809 in the specification (CWG-17)
- Section 2.4 needs to reference the same fiber types as the previous table. (CWG-18)

ARINC Project Paper 836A (Mini-MRP)

- Review Strawman Input for mini-modules
- Send IP disclosure paperwork to SQS (836-38)
- 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)
- Provide information on insertion distances, insertion and removal forces (836-45)
- Define grounding concepts (836-46)
- Provide 3D models of mini-MRP connectors to SQS (836-47)

CSS

IFE Suppliers

FOS/IA

IΑ

IA IA

CSS

Molex

IΑ

TEC, Mx, Amp

Molex Suppliers

TEC

Airbus

Radiall, Amp

Wednesday, 9:00 AM - 5:00 PM

•	PP6	48 - 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
	_	Develop a flow sequence for the seat testing (648-8)	ZSF
	_	Provide equipment/wiring configuration and testing flow for example seat installation (648-9)	ZSF
	_	Revise first diagram/revise text of proposed section to reflect general case supply chain (648-10)	Thales
	_	Review Thales document on a data driven seat process for seat acceptance (648-11)	IFE suppliers
	_	Propose ATP template (648-12)	BEA
•	Sup	plement 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
	_	Provide markup of proposed revisions to A628P1 (628 P1-194)	Latacoere
	_	GCOM Discussion Items	CSS
		CWAP Test Mode	Airbus
		 Status of Regulatory Situation/Coordination 	CSS
•	Proj	ject Paper 820 (Wireless Network)	CSS
	_	Review proposed strawman and provide comments (820-2)	Suppliers
	_	Add commentary that loopback may not be needed based on configuration (820-8)	Boeing
	_	Add decompression discrete to wiring table (820-9)	Boeing
	_	Review connector insert C to consider alternate insert configuration (820-10)	Boeing
	_	Propose power consumption value for section 2.2.1 assuming POE for CWAPs (820-11)	RCI

Thursday, 9:00 AM – 12:00 Noon

•	Supplement 1 to A832 (copper/FO hybrid)	Airbus
	 Propose fiber location in 16-10 insert/ cross section of hybrid fiber-copper cable. (832-167) 	TEC
	 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
•	Review Draft 1 of ARINC Specification 664, Part 2 (10 Gb Ethernet)	CSS
	 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)

	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	ост
CSS S/C			9-11 Tucson			10-12 Lisbon			23-25 TBD		
Connector WG			Same as CSS			Same as CSS			Same as CSS		
Ku/Ka SatCom SC		13-15 Cocoa Beach			TBD			TBD			
GAIN S/C											
	No Meetings Planned										
NIS		12-14 Cocoa Beach									
FOS		26-28 Oxnard CA									
SAI			9-11 Coral Gables, FL								
APEX						10-11 TEC					
AEEC				23-24 General Session Atlanta							TBD Mid-Term Session