

Cabin Systems Subcommittee

Meeting Agenda

*May 16-18, 2017
Sedan, France*

*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 (17-052/CSS-594)
- Current Drafts
 - ▶ Draft 3 of Supplement 1 to ARINC 800 Part 2
 - ▶ Draft 4 of Supplement 3 to ARINC 664 Part 2 (New)
 - ▶ Draft 2 of ARINC Project Paper 836A
 - ▶ Draft 1 of Supplement 8 to ARINC 628 Part 1
 - ▶ Draft 1 of Supplement 5 to ARINC 628 Part 9
 - ▶ Draft 1 of Project Paper 820
- Working Papers Identification
 - ▶ Updated Strawman for 800P2 8ax contact definition
 - ▶ Latecoere response on surveillance patent questions
 - ▶ Radiall response to action item FOWG-24 – MT temperature
 - ▶ APIM proposal for 5GCN – Airbus
 - ▶ Notional 5GCN network – Airbus
 - ▶ PP820 – Boeing proposed changes to Section 3
 - ▶ Report from the cabin bus ad hoc working group –Thales
 - ▶ Strawman input from cabin bus ad hoc working group

Objectives

- ▶ Review of Current CSS Program/Results from AEEC General Session
- ▶ 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
- ▶ APIM for Cabin Surveillance
- ▶ Ad Hoc CWG Meeting on MT Ferrules
- ▶ PP648 -- Guidance for Seat Production Testing
- ▶ Supplement 8 to ARINC 628 Part 1
 - HD Landscape Camera and 4K Video
 - CWAP Automatic Region Code Adaptation
- ▶ Initiate Work on MultiGigabit CWAP
- ▶ APIM for Proposed Supplements to ARINC 808 and 809
- ▶ APIM for 5GCN
- ▶ Supplement 5 to ARINC 628 Part 9
- ▶ Project Paper 820 (Wireless Networks)
- ▶ New Cabin LAN Definition
 - ARINC 664, Part 2
 - Seat and Lighting Interfaces – PP 854
- ▶ ARINC 664 Part 2 (10 Gb Ethernet)
- ▶ Agenda and Location for Next Meeting

Tuesday, 9:00 AM – 5:00 PM

- ▶ **Current CSS Program**
 - Review of current program/results from AEEC General Session
 - ▶ **Supplement 9 to A628P2 (USB 3.1) – close action items**
 - Create Review draft and circulate for adoption action (628-P2-29)
 - ▶ **Review ARINC 800, Part 2 (Specification of Connectors)**
 - Resolve Radiall/Amphenol input and the strawman version for the 8-AX contact (A800P2-107)
 - Revise wording in 800P2 sec 3.1.3.9.2 to including references to CAT6A spec (A800P2-108)
 - Define the reference designator for this contact similar to section 3.1.1.3 (A800P2-109)
 - Add drawings for PC board configurations of the 8-AX contact (A800P2-110)
 - ▶ **Review ARINC 800, Part 3 (Specification of Cables)**
 - Revise tables in section 2.2 to include US customary units (A800P3-35)
 - Create adoption draft and route for review (A800P3-36)
 - ▶ **Fiber Optic Connectors (PP846)**
 - Provide response to FOS on input for the 4165 MT fiber insert (FOWG-23)
 - Perform thermal testing on MT termini for 125C temp requirement (FOWG-24)
 - Add an ad hoc CWG meeting to discuss MT termini configuration (FOWG-25)
 - ▶ **Review ARINC Project Paper 836A (Mini-MRP)**
 - Include frame drawing view for the bonding spring clip height above the enclosure. (836-57)
 - Provide connector centerline dimensions (836-58)
 - ▶ **APIM for Cabin Surveillance**
 - Provide information on surveillance camera patent (CSS-M-2)
- Delta/IA**
CSS
CSS
IA
CSS/CWG
IA
Boeing
Radiall/Amp
Amp/Radiall
CWG
IA
IA
CSS
IA
Suppliers
IA
CSS
IA
Suppliers
CSS
Latecoere

Wednesday, 9:00 AM – 5:00 PM

▶ (Parallel Session) CWG Ad hoc meeting – MT ferrules and connectors

CWG

▶ PP648 - Guidance for Seat Production Testing

CSS

- 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)
- 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)
- 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)
- Rewrite section 3.2.2.3 for interface between the SAC/ECU and IFE Seat equip. (648-43)
- Request data on top causes of failures during production installation (648-44)
- Revise APIM 15-001 to change the completion date for PP648 to May 2018 (648-45)

Panasonic
IFE Suppliers
IFE suppliers
Thales
IA/BE
IA
IA
Thales/PAC/Zii
PAC/Thales/Zii
IA/ZSF/BEA
IA
IA
IFE suppliers
BEA/ZSF
IA
Thales
Airbus/Boeing
IA

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

- ▶ **Supplement 8 to ARINC 628 Part 1 – CWAP GCOM/HD Landscape Camera**
 - **GCOM Updates**
 - Review and revise Att 17 video formats and integrate APEX EETWG requirements (628 P1-195)
 - Provide substantiation for the 5 mbps stream rate for h.265 4K format - 17.2.6.1.1 (628P1-199)
 - ▶ **Initiate Project on MultiGigabit CWAP (802.11ac Wave 2)**
 - ▶ **APIM for Proposed Supplements to ARINC 808 and ARINC 809**
 - Develop an APIM to revise A808 and A809
 - ▶ **APIM for Cabin Network Expansion (5GCN)**
 - Develop a new APIM for creating the 5GCN aircraft cabin network
 - ▶ **Review Draft 1 of Supplement 5 to ARINC 628 Part 9**
 - Review IP address allocations for new 100baseT1 seat devices (A628P9-12)
 - ▶ **Review Draft 1 of Project Paper 820 (Wireless Network)**
 - Propose power consumption value for section 2.2.1 assuming POE for CWAPs (820-11)
 - Update figure 2-2 to revise A629 to A628 reference (820-16)
 - Update figure 2-2 and/or text of section 2.2 to identify connector (820-17)
 - Add shield pin throughs for A429 (optional) and A485 (required) in section 2.2.2.4 (820-18)
 - Verify spares pin sizes in section 2.2.2 (820-19)
 - Revise Figure 2-3 to indicate SR4 vs SR3 on the connector side interface (820-20)
 - Update section 3.1.2 to reflect allocations of IP addresses to IFE equip. and PODs (820-21)
 - Add reference to A628P9 for maintenance MIB (820-11) (820-11) (820-22)
 - Revise section 2.2.2.1 redundant server configuration. (820-23)
 - Revise definition of Ground to Return 1 and Return 2 (820-23)
- CSS**
ZII
Thales
Latecoere
CSS
Boeing
Boeing
CSS
Airbus
CSS
Thales
CSS
RCI
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Thales

Thursday, 9:00 AM – 12:00 Noon

- ▶ **New Business**
 - Propose a behavior document for wireless systems (CSS-M-1)
- ▶ **New Cabin Equipment Bus (ARINC 664 P2 and PP 854)**
 - **Supplement 4 to ARINC 664, Part 2 (New Cabin LAN)**
 - ▶ **Discuss Needs and Requirements for 100/1000 BASE T1 Definition**
 - **New Cabin LAN (Seat and Lighting Interfaces)**
 - ▶ **Report from Ad hoc working group**
 - ▶ Create ad-hoc WG to develop a proposal for the seat bus protocol/addressing (854-001)
 - ▶ Change the name of the relay node to the intermediate node (854-002)
 - ▶ Provide an intermediate node that does not contain a switch (854-002)
 - ▶ Rename one endpoint to bridge router (854-002)
 - ▶ Remove Local Network designation from figure 2-6 (854-003)
 - ▶ Provide a test plan for the 802.3bw physical wiring (854-004)
 - ▶ Extend invite to the Lighting suppliers for the next CSS meeting in Sedan (854-005)
 - ▶ Review connector and cable matrices for the 100BaseT1 Cabin bus (854-006)
- ▶ **Supplement 3 to ARINC 664, Part 2 (10 Gb Ethernet)**
 - Review Status of Supplement 3
 - Review new 802.3bz specification and applicability and impact to your systems (664P2-11)
- ▶ **Discuss agenda and locations for next meetings**
- ▶ **Adjourn CSS**

CSS

RCI

CSS

CSS

CSS

CSS

Thales

Thales

Thales

Thales

Thales

Thales

Thales

IA

All

CSS

Boeing

CSS

All

2016-2017 CSS Meetings Planning (Tentative)

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
CSS S/C	1 – 3 Newark			21-23 Tempe, Arizona			16-18 Sedan, FR			22-24 Riga, Latvia	
Connector WG	Same as CSS			Same as CSS			Same as CSS			Same as CSS	
Ku/Ka SatCom SC			10-12 Melbourne, FL					14-16 Annapolis			
GAIN S/C	No Meetings Planned										
NIS	15-17 Portland, OR							5-7 Renton, WA			
FOS			24-26 St. Augustine					13-15 Avon. CT			
SAI				14-16 Coral Gables				13-14 Englewood, CO			
APEX								TECH 13-15 Los Angeles			EXPO 25-28 Long Beach
AEEC							1-4 General Session Milwaukee				