Meeting Agenda
October 15-17, 2019
Herrsching, Germany

Hosted by:
Safran Seat

CSS Leadership
Dale Freeman (DAL) Chairman
Jecelin Peterson Boeing Co-Chairman
Fritz Urban Airbus Co-Chairman
Cabin Systems Subcommittee

102nd Meeting !!!!!!!

1st meeting was
March 18, 1992 in Los Angeles, CA
Cabin Systems Meeting Agenda

- **Introductions**
  - Special Notes
    - Intellectual Property *(Patent & Copyrights)*
    - APIM Guidelines
    - Members and Corporate Sponsors
  - Acceptance of Previous Meeting Report *(19-086/CSS-622)*
  - Drafts and Strawmen
    - Draft 1 of Supplement 2 to ARINC 800 Part 2 (New)
    - Draft 1 of Supplement 1 to ARINC 800 Part 4 (New)
    - Draft 2 of Supplement 8 to ARINC 628 Part 1
  - Working Papers Identification
    - Draft 2 of ARINC Project Paper 854
    - ARINC 808/809
    - Requirements Matrices for 2-wire Ethernet cables
    - APIM 17-011 – Video Surveillance System
    - APIM 17-012 – Updated 3GCN
    - APIM 17-013 – Cell Modems
    - APIM 18-001 – 5th Generation Cabin Network (5GCN)
    - APIM 19-002 – Update to ARINC 485
    - APIM 19-003 – Update to ARINC 628, Part 5

- **Others to be added**
Objectives

- Review of Current CSS Program
- Consider New Supplement to ARINC 628 Part 0
- Connectors and Cables
  - Supplement 2 to A800 Part 2 (Specification of Connectors) – 854 LAN and 5GCN
  - Supplement 2 to A800 Part 3 (Specification of Cables) – determine 802.11 bw & bz action items
  - Supplement 1 to A800 Part 4 (Testing) – New material on testers (Fluke)
- PP648 -- Guidance for Seat Production Testing
- Discussion on DFS Monitoring (ZII)
- Supplement 8 to ARINC 628 Part 1
  - HD Landscape Camera and 4K Video
  - Video Surveillance
  - CWAP Automatic Region Code Adaptation
  - MultiGigabit CWAP
- New Cabin LAN Definition
  - ARINC 664, Part 2
  - ARINC PP 854 (Seat and Lighting Interfaces)
- ARINC 664 Part 2 (10 Gb Ethernet)
- ARINC 628, Part 5 (Green Sleeves APIM 19-002)
- ARINC 485, Parts 1 and 2 (APIM 19-001)
- Strawman for 5GCN
- Agenda and Location for Next Meeting
Tuesday, 0900 – 1700

- **Current CSS Program**
  - Review of current program
  - Accept previous CSS MR (19-xxx/CSS-xxx)
- **Review ARINC 800, Part 2 (Specification of Connectors)**
  - Review of connector drawings
- **Review ARINC 800, Part 3 (Specification of Cables)**
  - PPTs for proposed cable (A800P3-43)
  - Provide text intended for twisted pair 100BASE-T1 and 1000BASE-T1 (A800P3-44)
  - Provide material to support reasonable abrasion/weight performance A800P3-46)
  - Provide definitive guidance on OEM req’ts for cable installations (A800P3-47)
  - **Requirements for 2-wire Ethernet Cable**
  - **Proposed Supplements to ARINC 808 and ARINC 809 (APIM 17-012A)**
    - Document the redundancy capabilities of the backbone (A808/809-2)
    - Revise Section 8 for the fiber backbone (A808/809-3)
    - Evaluate the ARINC 808/809 project for a wider scope of rework
  - **Proposed Supplements to ARINC 485P1 and ARINC 485P2**
    - Discuss necessary revisions
    - Develop new material
  - **ARINC 628, Part 1 Cabin Surveillance**
    - Review connector req’ts for cargo areas (628P1-205)
    - Review strawman for Section 18.0, Video Surveillance System (628P1-206)
Wednesday, 0900 – 1700

- **ARINC PP 648 - Guidance for Seat Production Testing**
  - Adoption Candidate

- **APIM 18-001 for Cabin Network Expansion (5GCN)**
  - Develop written summary of the proposed 5GCN architecture (CSS-M-6)
  - Perform analysis of proposed 5GCN architecture and provide feedback to CSS (CSS-M-7)

- **ARINC 628, Part 1 Cell Modem Standardization**
  - Develop an outline for the project paper
  - Review design characteristics on cell modems

- **Supplement 8 to ARINC 628 Part 1 – CWAP GCOM/HD Landscape Camera**
  - Prepare a proposal for connectorization (high speed data concerns)
  - Deliver a 3D drawing for CWAP/Cell Modem
  - Develop list of installation locations
  - Research interfaces for higher speeds (8ax, 2xquads, etc.)
  - Discuss surv operations without cooling time/temp
  - Ask if new CWAP config and cell modem design may be used on all models

- **Secure Media Independent Messaging (APIM 19-004)**
  - Develop material for review by CSS
  - Discuss SMIM Project
Thursday, 0900 – 1200

- ARINC 628, Part 5 – Cabin Electrical Equipment And Wiring Installation Guidelines CSS
  - Provide material intended for Supplement 5 Boeing
  - Produce mature draft for industry review ARINC IA
- ARINC 800, Part 4 (Test Methodology) CSS
  - Review of Boeing inputs CSS
- New Cabin Equipment Bus (ARINC 664 P2 and PP 854) CSS
  - PP 854 New Cabin LAN (Seat and Lighting Interfaces) CSS
    - Report from Web Conference(s) All
    - Review draft spec from Thales and provide comments on the proposed architecture All
- Supplement 4 to ARINC 664, Part 2 (1000 BASE-T1) CSS
  - Ensure standard testing of 8ax termini as required by ARINC 800, Part 4 CSS
  - ARINC IA to send WORD files to Boeing (L.P.) (A664p2-5) ARINC IA

- Discuss agenda and locations for next meetings All
  - Q3 Fremont, CA (August 20-22) TEC FIRM
  - Q4 Munich (October 15-17) ZII FIRM
  - 2020
    - Q1 USA (Mobile?) (Feb 4-6) Airbus TENTATIVE
    - Q2 Tours, FR (May 27-29) Radiall TENTATIVE
    - Q3 OPEN (August)
    - Q4 OPEN (October)

- Adjourn CSS
<table>
<thead>
<tr>
<th></th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSS</td>
<td>Oct 15-17 Munich</td>
<td>Feb 4-6 Mobile, AL Airbus</td>
<td></td>
<td></td>
<td>May 27-29 Tours, FR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CWG</td>
<td>Same as CSS</td>
<td>Same as CSS</td>
<td></td>
<td></td>
<td>Same as CSS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ku/Ka SatCom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GAIN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WebEx Meetings as needed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAI</td>
<td>Renton, WA</td>
<td>TBD</td>
<td></td>
<td></td>
<td>TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APEX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sep 9-12 LAX</td>
<td></td>
</tr>
<tr>
<td>AESEC</td>
<td>AESEC Mid-Term TBD</td>
<td></td>
<td></td>
<td>AESEC GS PHX 11-14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meeting Name</td>
<td>Date</td>
<td>Location</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td>----------</td>
<td>------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sim ATC Environ</td>
<td>Aug 13-15</td>
<td>Frankfurt, Germany</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabin Systems</td>
<td>Aug 20-22</td>
<td>Fremont, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFB SC</td>
<td>Aug 27-29</td>
<td>Toulouse, France</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Link UF</td>
<td>Sep 17-19</td>
<td>Dublin, Ireland</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Transport Serv Bulletin</td>
<td>Sep 17-19</td>
<td>Istanbul, Turkey</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Software Distribution</td>
<td>Sep 24-25</td>
<td>Ventura, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDS WG</td>
<td>Sep 26-27</td>
<td>Ventura, CA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Infrastructure SC</td>
<td>Sep 24-26</td>
<td>Chicago, IL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Systems Architecture SC</td>
<td>Oct 08-09</td>
<td>Renton, WA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AEEC Mid-Term</td>
<td>Oct 10-11</td>
<td>Renton, WA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabin Systems</td>
<td>Oct 15-17</td>
<td>Herrsching, Germany</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet Protocol</td>
<td>Oct 21-23</td>
<td>Annapolis, MD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSEMC Conference</td>
<td>Oct 21-24</td>
<td>Utrecht, The Netherlands</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timely Flight Data</td>
<td>Nov 13-15</td>
<td>Washington, DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFTEG</td>
<td>Dec 17-18</td>
<td>Cologne, Germany</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>