



**To** AEEC Members, Corporate Sponsors and Guests **Date** February 19, 2010

**From** Paul Prisaznuk Executive Secretary **Reference** 10-021/AGS-164 cjm

**Subject** AEEC General Session

**When** March 29 - April 1, 2010

**Where** Hyatt Regency, Phoenix, Arizona






















## AGENDA

Time	Monday, March 29	Tuesday, March 30	Wednesday, March 31	Thursday, April 1
0900	<b>OPENING SESSION AEEC/AMC</b> <ul style="list-style-type: none"> <li>Welcome/Introductions</li> <li>Keynote Address</li> <li>Awards Session</li> </ul>	<b>TECHNOLOGY SESSION</b>  <b>Avionic Supplier Presentations NextGen and SESAR</b> (cont'd)	<b>CABIN SESSION</b> 9. Cabin Systems 10. Galley Interfaces 11. Ku-Band SatCom	<b>AEEC Advisory Session</b>  (Executive Committee Members Only)
1030	Break	Break	Break	Break
1045	<b>TECHNOLOGY SESSION</b>  <b>Airframe Manufacturer Presentations NextGen and SESAR</b>	<b>SYSTEMS &amp; ARCHITECTURES</b> 1. SAI 2. Transponder & ADS-B 3. Flight Data Recorder 4. FOS & WDM LAN	<b>COMMUNICATION SESSION</b> 12. DLK Users Forum 13. DLK Systems 14. AGCS	<b>AEEC Advisory Session</b>  (Executive Committee Members Only)
1200	AAI-Sponsored Lunch			
1330	<b>TECHNOLOGY SESSION</b>  <b>Avionic Supplier Presentations NextGen and SESAR</b>	<b>DATA NETWORK SESSION</b> 5. EFB & Users Forum 6. ANFS 7. MAGIC 8. NIS & Data Security	<b>SPECIAL TOPICS</b> 15. NDB/NDBX 16. Cockpit Displays 17. APEX Software 18. NIC Packaging 19. SDL/FLS	Adjourn
1500	Break	Break	Break	
1520	<b>SFAR 88 Fuel Tank System joint AEEC/AMC Symposium</b> (Regency Ballroom)	<b>AEEC Software Management Symposium</b>	<b>AEEC Security of Software Distribution Symposium</b>	
1630		<b>AEEC Advisory Session</b> (ExCom Members Only)	<b>AEEC/AMC Admin Session</b> (ExCom Members Only)	
1730				
1800	<b>Hospitality Suites</b>	<b>AAI-Sponsored Reception</b>	<b>Hospitality Suites</b>	
2100		<b>Hospitality Suites</b>		

The Opening Session will take place in the Regency Ballroom (1<sup>st</sup> floor) starting at 900 Monday morning. Following the morning coffee break the AEEC General Session will continue in the Phoenix Ballroom (2<sup>nd</sup> floor).

US Airways will sponsor a tour of Sedona on Wednesday, March 31 for spouses and guests. Please register on-line at: [http://www.aviation-ia.com/cf/AeecAmc\\_quest.cfm](http://www.aviation-ia.com/cf/AeecAmc_quest.cfm). Check the registration desk for exact time and location.

## AEEC EXECUTIVE COMMITTEE MEMBERS

	Jean-Marc Bara		Piet van den Berg
	Joe White		Jürgen Lauterbach
	Dennis Zvacek		William Stine
	Koichiro Watanabe		Jared Kirsling
	Thomas Laxar		Brian Gleason
	Mike Nebylowitsch		Mario Araujo
	Chris Allen AEEC Chairman-elect		Greg Kuehl AEEC Chairman
	Markku Lemmetty		Hugh McSweyn, Host Airline
	Open		Jimmie Schuman
	Jim Lord		Bob Semar
	Steve Fink		
	Patrick Schuster		Mike Murphy

Note 1. Delta gets one vote.

## WELCOME MESSAGE

Welcome to Phoenix and this year's AEEC General Session. Your participation in this conference says quite a bit about you. It also says quite a bit about the organization that you represent. Having made the trip to Phoenix, you are among a select group of aviation professionals that place a high value on collaboration, teamwork and global reach.

Why Phoenix for this year's meeting? We are here at the invitation of **US Airways**, a long-time AEEC member and a strong advocate of aviation standards going all the way back to its early days as Allegheny Airlines.

And where better to meet than Phoenix? Certainly a warm destination, filled with sunshine and rich culture. We are fortunate to have such a fine venue for this conference.

This meeting marks the second joint session of AEEC and AMC in recent times. During the early days, engineering and maintenance professionals worked side-by-side within AEEC meetings to solve many technical problems of the day. Sure technologies have evolved, airlines have evolved, and a whole new generation of professionals has come along. What has not changed is the fundamental need to work together to find collaborative solutions to the challenges that we face in this 21<sup>st</sup> century.

The agenda for this year's AEEC General Session highlights the importance of new technology, particularly as it applies to NextGen and SESAR initiatives. Avionic suppliers and airframe manufacturers will unveil their plans to deliver products and services to support NextGen and SESAR. These presentations are expected to identify the need for new aviation standards, perhaps a new operational capability, a new equipment interface, a new protocol or perhaps some other form of technical coordination that no single organization could do on its own. This is what AEEC does best. This is what AEEC has done for over 60 years.

This AEEC General Session will:

- Investigate new technologies and their application to NextGen and SESAR
- Review the accomplishments of AEEC Subcommittees and Working Groups
- Adopt new ARINC Standards and approve applications for new projects
- Resolve any problems encountered in the standards development process

On behalf of the AEEC Executive Committee and our host, **US Airways**, it gives me great pleasure to welcome you to Phoenix.



Paul Prisaznuk  
AEEC Executive Secretary



# AEEC GENERAL SESSION 2010



## Meeting Registration

Welcome to Phoenix. The registration desk will be open from 1:00pm to 5:00pm on Sunday and 7:30am to 4:00pm thereafter. If you pre-registered for the meeting, a name tag will be ready for you. Please be prepared to provide a business card to our registration staff. This will complete the registration process. Those who register at the door will have a name tag prepared on site.

## Meeting Materials

Electronic copies of working papers are available to ARINC Industry Activities Members and Corporate Sponsor organizations. Materials will be available at: [http://www.aviation-ia.com/aeecc/general\\_session/upcoming/index.html](http://www.aviation-ia.com/aeecc/general_session/upcoming/index.html) three weeks prior to the meeting.

You are invited to download all documents and print those that you might want to refer to during the meeting. Hardcopies of meeting materials are not available at the meeting.

## List of Pre-Registered Participants

An electronic copy of the pre-registration list is available to ARINC Industry Activities Members and Corporate Sponsor organizations. The list is inclusive of all those registered to attend the AEEC General Session and the AMC Open Forum.

## Speak to the Issues

All attendees are invited to participate in the discussion on the floor. Your input will clarify the issue at hand and assist AEEC Executive Committee members in their decision making.

When you wish to speak to an issue, please move to one of the floor microphones. When you are recognized, please state your name and affiliation, and then proceed with your remarks. Please be aware that your comments may be recorded.

If you cannot hear someone who is speaking, use the standard "speak louder" signal, i.e., raise your hand and move it in a small horizontal circle.

## Cellular Phones and Side Conversations

Please set your phone to silent operation when you are in the meeting room. Side conversations should be conducted outside the meeting room, so not to disturb the discussion in progress.

## AAI Reception - Tuesday Evening

The Airline Avionics Institute (AAI) cordially invites all participants to the AAI Reception to be held Tuesday evening, March 30 starting at 6:00pm.

Manufacturers who would like to be included in sponsoring and attending this reception should contact our AAI representative:

Mr. Phil Wright  
167 Willow Bend Way  
Osprey, Florida 34229-6808

tel: 1-941-313-0471  
email: [phil@airlineavionics.org](mailto:phil@airlineavionics.org)  
<http://www.airlineavionics.org>

# AEEC GENERAL SESSION 2010



## **US Airways Tour of Sedona - Wednesday Morning**

US Airways will sponsor a trip to Sedona for spouses and guests of meeting attendees. The tour will take place on Wednesday morning, March 31, 2010. For further information and to register for this event visit the AEEC General Session website at [http://www.aviation-ia.com/cf/AeecAmc\\_guest.cfm](http://www.aviation-ia.com/cf/AeecAmc_guest.cfm). At the meeting, you will find additional information about the events that are being planned for this meeting.

## **Children's Charity**

AEEC has a long-standing tradition of supporting children in need. You are invited to make a voluntary contribution to a worthy cause.

## **Airplane Drawing**

If you represent an ARINC IA Member or Corporate Sponsor organization, you are invited to participate in the US Airways A320 airplane drawing. The lucky winner will be announced on Wednesday.

## **Membership**

Airline membership fees are used to fund the majority portion of AEEC standards activities. Airlines that are not yet a member of ARINC Industry Activities you are invited to do so. Your participation spreads the costs fairly among airlines. Your membership will enable AEEC to continue to prepare standards and other documents that benefit aviation as a whole. For more information, talk to the AEEC Chairman or any AEEC Member.

## **Corporate Sponsorship**

Is your organization a Corporate Sponsor? A list of Corporate Sponsors is available at the registration desk and on the ARINC IA website. If your organization has not signed-up to be a Corporate Sponsor, we encourage you to do so. Corporate Sponsorship enables you to fully participate in AEEC activities, gain access to ARINC Standards and many other valuable products.

**Please visit:** <http://www.aviation-ia.com/MembershipAndSponsor/index.html>

## **Doing Business at the AEEC General Session**

Everyone knows the AEEC General Session is an excellent venue for valuable business discussions among and between customers and suppliers. Space is available in the hotel for suppliers to display products and services on a first-come first-serve basis.

If you have an interest in display space for your products, arrangements may be discussed with our AAI representative and/or with Avionics Magazine. If you wish to open a hospitality suite at the hotel, feel free to contact the hotel directly.

Please contact the hotel convention manager to coordinate the posting of signs in the hotel.

There are many opportunities for marketing presentations outside the main ballroom of the hotel. Marketing pitches inside the main ballroom are strongly discouraged.

## **AEEC Meeting Report**

The AEEC General Session report will be available to ARINC Industry Activities Members and Corporate Sponsor organizations approximately four weeks after the meeting. A notice with the website link will be sent to all registered meeting participants via email.

# AEEC GENERAL SESSION 2010



## **AEEC/AMC OPENING SESSION**

### **MONDAY, MARCH 29 - 9:00 AM - REGENCY BALLROOM**

AEEC and AMC will meet together in the Opening Session. AEEC Chairman Greg Kuehl, UPS, and AMC Chairman Mitch Klink, FedEx, will welcome attendees to Phoenix.

David Seymour, US Airways Senior Vice-President of Operations will provide the keynote address.

The AEEC Trumbull Award will be presented by the AEEC Awards Chairman Chris Allen, Continental Airlines.

AAI Volare Awards will be presented by the Airline Avionics Institute (AAI).



## **AEEC GENERAL SESSION**

### **MONDAY, MARCH 29 - 10:45 AM - PHOENIX BALLROOM**

The AEEC General Session will convene following the morning break. AEEC Members will be introduced. Airline participants and AEEC alumni will be invited to introduce themselves.

## **AEEC TECHNOLOGY SESSION**

The theme of this session is “New Technology and How it Applies to CNS/ATM”. Airframe manufacturers will describe their efforts to support NextGen and SESAR initiatives for new airplanes and for airplanes presently in service.

Avionic suppliers will describe:

- Technical highlights of changes required to meet the new capabilities
- Required interfaces with other system components
- Timeline for the changes
- Changes to flight deck operation
- World wide interoperability
- Standards work needed

This session is scheduled to continue Tuesday morning at 9:00am.



### **MONDAY, MARCH 29 - SFAR 88 SYMPOSIUM - REGENCY BALLROOM** **FUEL TANK SYSTEM FAULT TOLERANCE EVALUATION REQUIREMENTS**

American Airlines will lead the symposium on Special Federal Regulation (SFAR) 88. Specialists will provide their perspectives on the specific challenges. They will also describe what is necessary to comply with this mandate.

Note: This Symposium is scheduled to start at 3:20pm in the **Regency Ballroom**, 1<sup>st</sup> floor.









AEEC GENERAL SESSION 2010



8. Network Infrastructure and Security (NIS)

ARINC 664, ARINC 811, ARINC 825

Co-Chairman: Jean-Paul Moreaux, Airbus

Co-Chairman: Steve Arentz, United Airlines

Secretary: Vanessa Mastros, [vam@arinc.com](mailto:vam@arinc.com)

APIM 05-022: IP-based Mobile Connectivity for AOC/ATC

APIM 08-007: Security Policies for the Development of New Documents

Goal: The goal of the NIS activity is to develop and maintain several documents that provide guidance on network security, information security, and methods to ensure the secure transfer of information. This includes the development of ARINC Specification 664: Aircraft Data Network standard and ARINC Specification 825: Controller Area Network (CAN) Bus standard.

AEEC Adoption Item:

- AEEC will consider the adoption of Draft 5 of Supplement 1 to ARINC Characteristic 825 as circulated with AEEC Letter 09-156/NIS-023.

APIM Approvals: AEEC will consider the following new tasks:

APIM 10-002: This APIM proposes that a new standard be developed to address the increasing focus being placed on digital information security. The proposed document will compliment the high-level identity management framework provided in ATA Spec 42 as well as provide guidance to developers on the use of digital certificates.

APIM 10-004: This APIM recommends the development of Supplement 2 to ARINC Specification 825: General Standardization of CAN for Airborne Use. The document is expected to include new material that describes a CAN timing model, latency calculations, bus loading analysis methods, security, safety and reliability. A data gateway capability for software data loading will be coordinated with the SDL Subcommittee.

A Technical Application Bulletin (TAB) is being developed for Network Security. This document includes guidelines for the incorporation of cyber security elements in AEEC documents. An overview will be provided.



JOINT AVIONICS MAGAZINE SYMPOSIUM

AVIONICS SOFTWARE MANAGEMENT

TUESDAY, MARCH 30, STARTING AT 3:20PM

PHOENIX BALLROOM



# AEEC GENERAL SESSION 2010



**WEDNESDAY, MARCH 31 - 9:00AM**

## **9. Cabin Systems Subcommittee (CSS)**

**ARINC 628, ARINC 809, Project Papers 832, 833, 836, 837**

**Chairman: Dale Freeman, Delta Air Lines**

**Secretary: Earl Nicks - [Willie.Nicks@arinc.com](mailto:Willie.Nicks@arinc.com)**

**APIM 03-007: Seat Integration Working Group**

**APIM 05-020: Mobile Phone Networks**

**APIM 06-008: 4th Generation Cabin Network as an Enhancement to 3GCN**

**APIM 07-002: Wireless Distribution**

**APIM 07-007A: Cabin Connectors and Cables Specification**

**APIM 07-009: EMC Recommended Practices**

**APIM 08-011: Cabin Boxes Mechanical Interfaces**

**APIM 08-012: Cabin Human Machine Interface (HMI) Style Guide Report**

**Goal:** The objective of this activity is to define a cost-effective cabin infrastructure that will support evolving technologies and enable airlines to install equipment that exceeds passenger expectations. This effort includes interface standards to allow airlines to implement preferred systems for their passengers. Cabin communication, broadband connectivity, wireless distribution, cabin interface protocols, and connector standardization are all intricate components of this activity.

### **AEEC Adoption Items:**

- AEEC will consider the adoption of Draft 3 of **Supplement 5 to ARINC Specification 628 Part 1: Cabin Equipment Interfaces – Cabin Management and Entertainment System Peripherals** as circulated with AEEC Letter 10-017/CSS-415.
- AEEC will consider the adoption of Draft 2 of **Supplement 2 to ARINC Specification 628 Part 3: Cabin Equipment Interfaces – IFES to Aircraft Systems Interfaces** as circulated with AEEC Letter 10-018/CSS-416.

**APIM Approvals:** AEEC will consider the following new tasks:

**APIM 10-005: Cabin Equipment and Communications Interfaces**

This APIM proposes further Supplements to ARINC Specification 628:

Part 1 – to improve the definition of digital video cameras, digital overhead monitors, high-definition displays, high-definition video formats, and remote control center.

Part 3 – to provide an Ethernet interface between the cabin services system and the IFE system.

Part 5 – to improve the definition of cable bend radius, protective covering, cable slippage, and material part numbering.

Part 7 – to provide improvements in the definition of equipment touch temperature and noise signature caused by active cooling.

**APIM 10-006: ARINC 746 and PCI Security Compliance**

This APIM proposes the development of Supplement 4 to ARINC Characteristic 746 that will include requirements for Payment Card Industry (PCI) Data Security. This will provide the capability to assure secure credit card payments via INMARSAT.

# AEEC GENERAL SESSION 2010



## 10. Galley Insert (GAIN) Subcommittee

**ARINC 810, ARINC 812, Project Papers 813, 814, 815**

**Co-Chairman: Ralph Schnabel, Airbus**

**Co-Chairman: Scott Coburn, Boeing**

**Secretary: Earl Nicks - [Willie.Nicks@arinc.com](mailto:Willie.Nicks@arinc.com)**

**APIM 03-009: Standard Interface for Galley Insert Equipment**

**Goal:** The goal of the GAIN Subcommittee is to standardize the physical dimensions and electrical interfaces for galley Inserts. The primary areas being considered for standardization include:

- Standard wiring
- Water connectors
- Electrical connectors
- Dimensions
- Interfaces, both physical and data
- Galley mounting rails

**Briefing:** A summary of GAIN activities will be provided. The standards are defined in:

- **ARINC Specification 810:** *Definition of Standard Data Interfaces for Galley Insert Equipment*
- **ARINC Specification 812:** *Definition of Standard Data Interfaces for Galley Insert Equipment, CAN Communications*

The status of strawmen documents will be provided:

- **Project Paper 813:** *GAIN Equipment Qualification and System Test Guidance*
- **Project Paper 814:** *GAIN Equipment Design and Integration*
- **Project Paper 815:** *Guidance for Maintenance*



## 11. Ku-Band Satellite Communications

**Project Paper 791**

**Chairman: Peter Lemme, Consultant**

**Secretary: Earl Nicks - [Willie.Nicks@arinc.com](mailto:Willie.Nicks@arinc.com)**

**Project Paper 791**

**APIM 07-008A: Ku-Band Satellite Hardware Installations and Equipment Interfaces**

**Goal:** The Ku-Band Working Group is developing standards for broadband satellite system hardware and aircraft installation provisions.

**Briefing: ARINC Project Paper 791:** *Ku-Band Satellite System*, is being developed to capture antenna mounting provisions and aircraft installation provisions. The definition of physical characteristics and interfaces to the airplane structure are significant and they are the initial focus of this effort. Project Paper 791 is being developed in two parts:

- Part 1: Physical installation and aircraft interfaces
- Part 2: Electrical Interfaces

# AEEC GENERAL SESSION 2010



## 12. Datalink Users Forum

**Co-Chairman: Colin Gallant, British Airways**  
**Co-Chairman: Janet Wiesner, Continental Airlines**  
**Secretary: Mike Rockwell - [Mike.Rockwell@arinc.com](mailto:Mike.Rockwell@arinc.com)**

**Goal:** The goal of the Datalink (DLK) Users Forum is to provide continuous improvements to datalink system performance in a way that maximizes the operational benefit to the user community. The DLK Users Forum is a coordinating activity among airlines and cargo carriers, aircraft manufacturers, avionics manufacturers, and datalink service providers. Economic benefits are obtained through the exchange of technical information and through the resolution of common problems. The activity also provides coordination among airlines, civil aviation authorities, and air traffic service providers on the direction and schedule of new Air Traffic Service (ATS) datalink programs.

**Briefing:** Colin Gallant, British Airways, will provide a briefing on the Datalink Users Forum activities and plans for the future.



## 13. Datalink Systems Subcommittee

**ARINC 618, ARINC 620, ARINC 631, ARINC 758**  
**Chairman: Joe Slavinsky, FedEx**  
**Secretary: Mike Rockwell - [Mike.Rockwell@arinc.com](mailto:Mike.Rockwell@arinc.com)**

**Goal:** The goal is to develop and maintain a set of ARINC Standards that promote reliable, uniform, and cost efficient transfer of data between the aircraft and various locations on the ground. These standards cover the existing ACARS datalink standards. They complement the Aeronautical Telecommunications Network (ATN) definitions by ICAO and RTCA/Eurocae.

**Briefing:** Joe Slavinsky will provide a briefing on Datalink Systems Subcommittee activities and plans for the future. No adoption actions are planned at this time.

### 13a. Media Independent ACARS Messages (MIAM)

**Goal:** The goal of this activity is to develop a new protocol to send ACARS-like messages over emerging broadband subnetworks. While it is expected that these messages will use IP broadband communications, the same messages could also use VDL Mode 2 or traditional ACARS subnetworks.

### 13b. ARINC 823 Datalink Security (DSEC)

**Chairman: Doug Murri, Southwest**  
**APIM Approval:** AEEC will consider the following new task:  
**APIM: 10-001:** Datalink Security. The product of this APIM will be Supplement 1 to **ARINC Specification 823: *Datalink Security***. ICAO is developing Doc. 9880, Technical Manual and Guidance Material for ATN using OSI Protocols, which is intended to supercede and replace ICAO Doc. 9705. Supplement 1 will incorporate new ICAO document references.



# AEEC GENERAL SESSION 2010



## 15. Navigation Data Base (NDB/NDBX)

**ARINC 424, Project Paper 424A**

**Co-Chairman: Doug White, Delta Air Lines**

**Co-Chairman: Reinhard Andrae, Lufthansa**

**Secretary: Sam Buckwalter - [sbuckwal@arinc.com](mailto:sbuckwal@arinc.com)**

**APIM 06-003: FMS Navigation Data Base Open Standard (NDBX)**

**Goal:** The goal is to develop a software data base specification for Flight Management (FM) Navigation Data Bases (NDB) that will assist aircraft operators, manufacturers, regulatory authorities, and data base suppliers to maximize the operational and economic benefits of FMS navigation by the exchange of technical information that improves overall system performance for a new Navigation Data Base.

**Briefing:** The current activity starts from ARINC Specification 424-19 and it will establish new standards for a Navigation Data Base that can grow. A status report will be provided.



## 16. Cockpit Display Systems (CDS)

**ARINC 661**

**Chairman: Gary Hickey, Honeywell**

**Secretary: Paul Prisaznuk - [pjp@arinc.com](mailto:pjp@arinc.com)**

**APIM 08-004: Update to ARINC 661 Cockpit Display System Interface Standard**

**Goal:** The goal is to prepare flight deck display interface standards for new airplane development programs including air transport, business and regional, general aviation, and military aircraft.

**Briefing:** A summary of draft **Supplement 4 to ARINC Specification 661: Cockpit Display System Interface to User Systems** will be presented. Supplement 4 is intended to ensure growth for CNS/ATM applications that provide advanced operational concepts that will increase aviation safety, capacity, and efficiency. It adds new material as follows:

- SymbolPushButton widget
- SymbolToggleButton widget
- PopUpPanelButton widget
- XML definition files in Section 6
- New Widget Guidelines added to Appendix G
- CDS Layer and Window Management in new Appendix H
- Application Program Interface (API) Lessons Learned in new Appendix I

### **AEEC Adoption Item:**

- AEEC will consider the adoption of Draft 1 of **Supplement 4 to ARINC Specification 661** as circulated in AEEC Letter 10-028/SAI-958.

# AEEC GENERAL SESSION 2010



## 17. Application/Executive (APEX) Software Interface

### ARINC 653

**Co-Chairman: Frederic Aspro, Airbus**

**Co-Chairman: Gordon Putsche, Boeing**

**Secretary: Paul Prisaznuk – [pjp@arinc.com](mailto:pjp@arinc.com)**

**APIM 08-003: Avionics Application Software Standard Interface**

**Goal:** The goal of this activity is to develop and maintain ARINC Specification 653: Avionics Application Software Standard Interface, defining a standard interface between avionics application software and Real Time Operating System (RTOS).

**Briefing:** ARINC 653 is now being used extensively on new civil aircraft and military aircraft. Avionics suppliers have expressed the need to apply ARINC 653 to regional, business and private aircraft programs. ARINC 653 enables avionics functional upgrades to be made with minimal impact on the underlying computing platform.

ARINC 653 is being developed in four parts:

Part 1 - Required Services, Supplement 3 in work

Part 2 - Extended Services, mature

Part 3 - Conformity Test Specification, Supplement 1 in work

Part 4 - Single Thread Profile, new document in work



## 18. New Installation Concepts (NIC)

### ARINC 600

**Chairman: Robert Nye, Boeing**

**Secretary: Scott Smith - [sjsmith@arinc.com](mailto:sjsmith@arinc.com)**

**APIM 06-006: ARINC Specification 600 update, Inclusion of Fiber Optic Component Requirements and Review of Technical Comments**

**Goal:** The goal of this activity is to update and maintain ARINC 600 equipment packaging standards and connector interface definitions.

**Briefing:** The NIC Subcommittee has incorporated new rectangular connector inserts into ARINC 600 that are capable of housing fiber optic contacts. This effort includes new contact arrangements and connector mating force requirements. Additionally, the NIC Subcommittee has prepared standards for quadrax connectors, specifically the form, fit, and function of quadrax connectors intended for use in all types of aircraft.

### AEEC Adoption Item:

- AEEC will consider the adoption of Draft 1 of **Supplement 18 to ARINC Specification 600: Air Transport Avionics Equipment Interfaces** as circulated with AEEC Letter 10-027/NIC-212. Supplement 18 incorporates new form and fit for quadrax contacts and connectors.

AEEC GENERAL SESSION 2010



19. Software Data Loading (SDL) and Field Loadable Software (FLS)

ARINC 615A, ARINC 665, ARINC 826
Co-Chairman: Ted Patmore, Delta Air Lines
Co-Chairman: Rod Gates, American Airlines
Secretary: Scott Smith - slsmith@arinc.com

Goal: The goal of this activity is to develop interface software data loading standards that will minimize cost and the time required to securely transfer data bases and software to an aircraft.

Briefing: Advances in mass-storage devices and data bus architectures have driven the need for new standards that will improve software data loading using standardized data loading hardware, as well as data buses and networks. A status report will be provided.

APIM Approval: AEEC will consider approving the following new task:
APIM 10-008: This APIM proposes the development of Supplement 1 to ARINC Specification 826: Software Data Loading Using CAN Interface. The goal is to harmonize the design methods and application of CAN. The Subcommittee will define the methods and procedures for using CAN to load data onto small equipment target hardware. It will also develop standards for a CAN gateway function to load target hardware with limited resources. Coordination of ARINC 825 and ARINC 826 CAN standards is expected.



JOINT AVIONICS MAGAZINE SYMPOSIUM

SECURITY ASPECTS OF SOFTWARE DISTRIBUTION

WEDNESDAY, MARCH 31, STARTING AT 3:20PM

PHOENIX BALLROOM



20. Other Business

AEEC members will discuss any other business of interest.



21. Future AEEC Events

The dates of the 2011 AEEC/AMC meeting will be announced. FedEx will host the meeting near their base in Memphis, Tennessee.



22. Announcements and Adjournment

The AEEC Chairman will pass the gavel to the AEEC Chairman-Elect. The AEEC Chairman will adjourn the 2010 AEEC General Session.



