



Internet Protocol Suite (IPS) for Aeronautical Safety Services

January 9, 10, 11, 2018

Topics Covered in this AEEC Briefing

- **Welcome**
- **IPS Project Overview**
- **Industry Editors and the AEEC Consensus Process**
- **Membership and Corporate Sponsorship**
- **Intellectual Property (IP) Policies**

APIM 15-004A

*Internet Protocol Suite (IPS) for
Aeronautical Safety Services*

Initiated: September 23, 2015

Update Approved: October 19, 2017

APIM 15-004A

IPS for Aeronautical Safety Services

- ▶ Scope - Define new Data Comm Network Infrastructure for Aviation Safety Services leveraging the Internet Protocol Suite (IPS)
 - ICAO Doc 9896 foundation
 - Support Inmarsat SBB, Iridium NEXT, AeroMACS, etc.
- ▶ Step 1: Prepare ARINC Project Paper 658: Internet Protocol Suite for Aeronautical Safety Services – Roadmap Document.
 - *COMPLETED*
- ▶ Step 2: Prepare ARINC Project Paper 858: Internet Protocol Suite for Aeronautical Safety Services – Technical Requirements – 2019.
- ▶ Maintain the IPS standardization roadmap (including updates to the gap analysis and standardization activity timing), Section 5 of ARINC 658.
- ▶ Serve as the coordination focal for all AEEC IPS-related activities

Outline – ARINC Project Paper 858 IPS Technical Requirements

Strawman for ARINC Project Paper 858 - IPS Technical Requirements

- 1.0 Introduction (Boeing)
- 2.0 ATN/IPS Overall Architecture (Thales)
- 3.0 ATN/IPS Airborne Architecture (Honeywell)
- 4.0 Security (Rockwell Collins)
- 5.0 ATN/IPS Airborne Implementation Options (Rockwell Collins)
- 6.0 Airborne Application Data Considerations (Boeing)
- Att 1 - List Of Acronym (from ARINC 658)
- Att 2 - Glossary (from ARINC 658)
- App A - ATN/IPS Ground Architecture Considerations (RC IMS)
- App B - Airbus Profiles
- App C - Boeing Profiles

Industry Editors and the AEEC Consensus Process

Industry Editors are an important extension of the ARINC Industry Activities staff. Drafts are prepared using established guidelines that ensure due process.

You are encouraged to *support your Industry Editors* by providing timely inputs, participating in web conferences, etc.

In return the Industry Editors provide material for review that *reflects the consensus* of industry.

These drafts are *subject to review* by the Subcommittee and/or Working Group.

Awards Program at the AEEC General Session

AEEC Trumbull Award

- Recognizes an airline employee who has made an outstanding contribution to the work of the AEEC in the development of ARINC Standards, or for related activities.
- http://www.aviation-ia.com/cf/Aeec_trumbull.cfm

Airline Avionics Institute (AAI) Volare Awards

- <http://www.airlineavionics.org/awards/>
- Recognizes individual achievement in one of the following fields:
 - Avionics Engineering Avionics Product Support
 - Avionics Manufacturer AAI Special Award
 - Avionics Maintenance Pioneer Award

Next AEEC General Session: April 23-26, 2018

- Sheraton Dallas Hotel, Dallas, Texas
- Hosted by **Southwest**

ARINC Membership and Corporate Sponsorship

Your Membership or Corporate Sponsorship helps to fund the many ARINC Industry Activities.

- A great way to support the airline community

Only ARINC Industry Activities Members and Corporate Sponsors get open access to ARINC Standards and other valuable documents.

- Password access to ARINC Standards, briefing reports, drafts, etc.

Non-members & non-sponsors pay for material on a per-item basis.

- They pay for each ARINC Standard, draft Project Paper, meeting report, working paper, briefing package, and so forth.
- Frequent downloads can make the business case for Membership or Sponsorship.

More information: www.aviation-ia.com

ARINC Intellectual Property (IP) Policy

- ▶ The ARINC Patent Policy covers patented technology and copyrighted material (e.g., software) required to comply with an ARINC Standard.
 - This policy allows the AEEC to consider proprietary technology for inclusion in an ARINC Standard -- If it provides significant technical or economic benefit over non-proprietary technology.
- ▶ The policy has two distinct requirements:
 - A participant must disclose if the use of any patented, patent pending, or copyrighted technology is required to comply with an ARINC Standard being developed. This disclosure must be provided in writing to the AEEC Executive Secretary.
 - When invited to do so by the AEEC Executive Secretary, the proponent must sign a Commitment to License the technology under reasonable and non-discriminatory terms.
- ▶ By signing the attendance book or by submitting material for consideration at the meeting, you confirm that you understand the policies and agree to comply with them.
- ▶ The policies are available at: www.aviation-ia.com

Point of contact ...

Paul J. Prisaznuk

Executive Secretary & Program Director
Airlines Electronic Engineering Committee (AEEC)
ARINC Industry Activities

1-410-212-0913

pjp@sae-itc.org

www.aviation-ia.com/aeec

Thank You



Backup Slides

AEEC 2017

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Internet Protocol Suite (IPS) for Aeronautical Safety Services

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Chairman – Jessie Turner, Boeing

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Navigation Data Base (NDB)

Chairman – Chuong Phung, FedEx

Aeronautical Data Bases (ADB)

Chairman – Brian Gilbert, Boeing

Cockpit Display Systems (CDS)

Chairman – Chad Weldon, Rockwell Collins

Application/Executive (APEX) Software

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Cabin Systems

Chairman – Dale Freeman, DAL
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Rolf Goedecke, Airbus

AEEC Subcommittee Email Distribution

All parties are invited to receive announcements and draft documents related to this Subcommittee

The ARINC staff does not place participants on an email distribution lists without your permission to do so

To subscribe to electronic notification of new releases:

<http://mailman.sae-itc.org/mailman/listinfo>

AEEC General Information:

<http://www.aviation-ia.com/aeec>

Initiating New AEEC Projects – APIM Process

ARINC Proposal to Initiate/Modify an ARINC Standard

Proposals for AEEC Subcommittee activity are initiated by a draft APIM prepared for AEEC Executive Committee consideration.

Any interested party can submit an APIM

An approved APIM is a “statement of work” that identifies:

Deliverables and scope

Benefits to airlines, benefit to airframe mfgs, benefit to suppliers, etc.

Schedule for completion

AEEC Executive Committee has established the APIM review process to:

Inform a broad cross-section of industry

Ensure thorough review and understanding of the APIM being proposed

Ensure resulting ARINC Standard will serve the needs of the greatest cross-section of industry

The SAI Subcommittee reviews all APIMs for the AEEC Executive Committee, in-effect, broadening exposure and support for the APIM.

More info: *AEEC Executive Secretary, Paul Prisaznuk (pjp@sae-itc.org)*