

ARINC Project Initiation/Modification (APIM)

1. Name of Proposed Project

APIM #: **10-001**

ARINC 823: **Datalink Security:**
Supplement 1 to Part 1
Supplement 1 to Part 2

Software specification only

yes no

1.1 Name of Originator & Organization

Michael Olive, Honeywell International Inc.

2. Suggested Subcommittee Assignment (who acts)

2.1 Suggested AEEC group

Datalink Security (DSEC) Subcommittee

2.2. Support for the Activity (as verified)

Organizations: FAA, Southwest Airlines, Honeywell, **American Airlines,**
Rockwell Collins,

2.3. Commitment for Drafting and Meeting Participation (as verified)

Organizations: Southwest Airlines, Honeywell

2.4. Recommended Coordination with other Industry Groups

The following AEEC Subcommittee activities are relevant to this topic:

AEEC NIS **and SAI**

Coordination with ICAO ACP WG-M recommended.

3. Project Scope

3.1 Description

This APIM addresses maintenance of ARINC 823 datalink security standards to incorporate updated ICAO document references for ATN/OSI security provisions, which serve as the basis for ACARS Message Security (AMS) requirements.

As background, ICAO ACP WG-M is developing ICAO Doc. 9880, *Technical Manual and Guidance Material for ATN using OSI Protocols*, which is intended to supersede and replace ICAO Doc. 9705, Edition 3. Material is being transferred from ICAO Doc. 9705 to ICAO Doc. 9880, along with amendments that reflect validation and operational experience. During the June 2009 meeting of ICAO ACP WG-M, the FAA presented a proposal to transfer security provisions from ICAO Doc. 9705, Edition 3, Sub-volume VIII to ICAO Doc. 9880 Part IV-B. The FAA proposal includes updates to ATN/OSI security provisions (e.g., migration from SHA-1 to SHA-256) consistent with cryptographic enhancements that are already included in ARINC 823. Since Honeywell served as the industry editor during

A standard, interoperable ACARS Message Security solution benefits the industry by minimizing costs to airlines, aircraft manufacturers, avionics vendors, data link service providers, CAAs and airline ground host developers.

5. Documents to be Produced and Date of Expected Result

ARINC Specification 823, Datalink Security

Supplement 1 to Part 1: ACARS Message Security

Supplement 1 to Part 2: Key Management

Date of expected result: Adoption during 2010 AEEC mid-term session and publication by the end of calendar year 2010.

6. Meetings/Expected Document Completion

The following table identifies the number of meetings and proposed meeting days needed to produce the documents described above.

This activity to be completed within the approved work program and meeting schedule for the DSEC Subcommittee:

Activity	Mtgs	Mtg-Days 2009	Mtg-Days 2010	Mtg-Days 2011
ARINC 823 Supp 1 to Part 1 Supp 1 to Part 2	0 Note 1	0	0 Note 1	0

Note 1: It is expected that proposed editorial changes to ARINC 823 **Part 1 and Part 2** can be reviewed, discussed, and agreed upon by members of the DSEC subcommittee via e-mail exchanges and one or two web-telecons.

6.1 Expiration Date for this APIM

April 2011

7. Comments

Send this document to the AEEC Secretariat and please include any other information deemed useful for managing this work.

For AEEC staff use only:

Date Received: **Jan 12, 2010**

AEEC staff: TBD

Potential impact: New Acft

(Safety, Regulatory, New aircraft/system, Other)

Resolution: Approved

Date of Resolution:

(Withdrawn, Authorized, Deferred, More detail needed, Rejected)

Assigned to Subcommittee: **Datalink Security**