

ARINC IA Project Initiation/Modification (APIM)

- 1.0 Name of Proposed Project** **APIM 11-005**
Navigation Data Base (NDB) Subcommittee scope and schedule
Note: This is a follow-up to **APIM 06-003**, Navigation Data Base Open Standard
- 1.1 Name of Originator & Organization**
NDB Subcommittee
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**
NDB Subcommittee
Doug White, Delta Air Lines
Reinhard Andreae, Lufthansa
- 2.2 Support for the activity (as verified)**
Airlines: Delta, FedEx, Lufthansa, United, US Airways
Airframe Manufacturers: Airbus, Boeing (TBC)
Suppliers: Jeppesen, LIDO, Navtech, Rockwell Collins, Honeywell, Universal, GE Aviation, Garmin
Others:
- 2.3 Commitment for Drafting and Meeting Participation (as verified)**
Airlines:
Airframe Manufacturers:
Suppliers: Jeppesen, LIDO, Navtech
Others:
- 2.4 Recommended Coordination with other groups**
SAI Subcommittee
FMS Subcommittee (inactive)
- 3.0 Project Scope**
The project will identify, evaluate, and document the recommended standards for the preparation of airborne navigation system reference data for use in the air transport industry. This data is intended for merging with airborne navigation computer operational software to produce a navigation data base for use onboard the aircraft. This scope creates ARINC Project Paper 424A and updates **ARINC Specification 424A as needed** on a regular basis to support new navigation procedures.

4.0 Benefits

4.1 Basic benefits

Operational enhancements yes
 no

For equipment standards:

a. Is this a hardware characteristic? yes no

b. Is this a software characteristic? yes no

c. Interchangeable interface definition? yes no

d. Interchangeable function definition? yes no

If not fully interchangeable, please explain: _____

Is this a software interface and protocol standard? yes no

Specify: _____

Product offered by more than one supplier yes no

Identify: _____ (company name)

4.2 Specific project benefits (Describe overall project benefits.)

4.2.1 Benefits for Airlines

There is universal support among airlines, manufacturers, and regulatory authorities for the preparation of regular updates to **ARINC Specification 424A**. One of the key benefits of this project is the continued interoperability between new and older ATS procedures and FMS cockpit implementations. Significant additional benefits are expected from the reduced separation standards and the increased availability of user-preferred routing that will result from NDB Working Group participation in the development of RNP RNAV procedures.

4.2.2 Benefits for Airframe Manufacturers

See item 4.2.1

4.2.3 Benefits for Avionics Equipment Suppliers

See item 4.2.1

5.0 Documents to be Produced and Date of Expected Result

ARINC Project Paper 424A, April 2012

5.1 Meetings and Expected Document Completion

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

Activity	Mtgs	Mtg-Days (Total)	Expected Start Date	Expected Completion Date
ARINC Project Paper 424A	1	3	Jan 2011	Apr 2012

Supplement 1 to ARINC 424A	1	3	April 2012	Oct 2013
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6.0 Comments

(none)

6.1 Expiration Date for this APIM

October 2013 - **This APIM** will be updated as the need arises, but no less than every 24 months.

For IA staff use only	
Date Received: Feb 22, 2011	Assigned to: _____
Potential impact: _____	
(A. Safety B. Regulatory C. New aircraft/system D. Other)	
Resolution: _____	
<i>Authorized, Deferred, Withdrawn, More Detail Needed, Rejected</i>	
Assigned to SC/WG: _____	