

ARINC Project Initiation/Modification (APIM)

- 1.0 Name of Proposed Project** **APIM 19-005**
Supplement 4 to ARINC Specification 633, AOC Messaging
- 1.1 Name of Originator and/or Organization**
Lufthansa German Airlines and Delta Air Lines
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**
AOC Subcommittee
Dirk Zschunke – Lufthansa German Airlines
- 2.2 Support for the activity (as verified)**
Airlines: Delta Air Lines, Lufthansa German Airlines, KLM Royal Dutch Airlines
Airframe Manufacturers: Airbus (through NavBlue), The Boeing Company (TBC)
Suppliers: Honeywell, Lufthansa Systems, Jeppesen, Sabre, FlightKeys, NavBlue
Others:
- 2.3 Commitment for Drafting and Meeting Participation (as verified)**
Airlines: Delta Air Lines, Lufthansa German Airlines, KLM Royal Dutch Airlines
Airframe Manufacturers: Airbus (through NavBlue), The Boeing Company (TBC)
Suppliers: Lufthansa Systems, Jeppesen, Sabre, FlightKeys, NavBlue
Others:
- 2.4 Recommended Coordination with other groups**
None
- 3.0 Project Scope (why and when standard is needed)**
- 3.1 Description**
Create or expand the following data structures in ARINC 633 AOC definition:
- Operational Flight Plan Updates
- WayPoint
 - Add Cumulated gnd/air distance since T/O
 - Add WayPoint information with ATC restrictions, limits, target values, etc. (in SESAR and FAA NextGen context)
 - ETOPS
 - Gross weight at ETP
 - Great circle distance from ETP to suitable airport
 - In Flight Update
 - Electronic Signature

- Idle Factor
- Dispatch License

Crew List

- Duty Data
 - To facilitate EFB chaining flights
- Pilot email
- Pilot Identifier
 - Used to Identify Pilot on EFB
- EFB Reference Pin Code (for Identification)

RAIM

- Place in Flight Plan or Standalone RAIM

Fuel Header

- Add Taxi InFuel
- Include a Minimum Fuel Element
- Add Optional Cargo Fuel Element (to Load)

PIREP

- Add Aircraft Type element

ATIS

- ATIS runway condition per ICAO

General

- Language
 - Handle Chinese

Request / Response

- Expand Supplement 3 definition

Performance

- RNP
- RCP
- RSP

Terrain Clearance

- Elaborate route from critical point to escape airport

Special Loads / NOTOC

Upper Air Data

- Atmospheric conditions at different Flight Levels in the Flight Plan

Turbulence

- TURB at different WayPoints
- Light, Moderate, Severe or Extreme

Guidance

- Value of using Dictionary (complying with Waypoint functional elements)

Take/Off Alternate

- Add Guidance and Clarification (where its located)
- Rerouting Flight Plan
- Make eFlight Folder Manger
- General Alternate Routes
- Include diversion airport
 - beyond existing T/O or Final Alternate
- NOTAM

3.2 **Planned usage of the envisioned specification**

Note: New airplane programs must be confirmed by manufacturer prior to completing this section.

- New aircraft developments planned to use this specification yes no
- Airbus: (aircraft & date)
- Boeing: (aircraft & date)
- Other: (manufacturer, aircraft & date)
- Modification/retrofit requirement yes no
- Specify: (aircraft & date)
- Needed for airframe manufacturer or airline project yes no
- Specify: (aircraft & date)
- Mandate/regulatory requirement yes no
- Program and date: (program & date)
- Is the activity defining/changing an infrastructure standard? yes no
- Specify (e.g., ARINC 429)
- When is the ARINC standard required?
- Sept 2020
- What is driving this date?
- Airlines are still operating Supplement 1 and 2.
- Are 18 months (min) available for standardization work? yes no
- Are Patent(s) involved? yes no
- None that are known

3.3 **Issues to be worked**

- See Section 3.1
- Make the document more efficient – reduce links?

4.0 **Benefits**

4.1 **Basic benefits**

- Operational enhancements yes no

