

ARINC Project Initiation/Modification (APIM)

- 1.0 Name of Proposed Project** **APIM 10-013B**
Supplement 7 to ARINC Specification 631 – *VHF Digital Link (VDL) Mode 2 Implementation Provisions*
- 1.1 Name of Originator & Organization**
Jose Godoy, ARINC IA Staff
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**
Datalink (DLK) Systems Subcommittee
Chairman: Bob Slaughter, American Airlines
- 2.2 Support for the activity (to be confirmed)**
Airlines: American Airlines, FedEx, Lufthansa,
Airframe Manufacturers: Airbus, Boeing
Suppliers: Honeywell, Rockwell Collins
Others: Rockwell Collins IMS, SITA
- 2.3 Commitment for Drafting and Meeting Participation (to be confirmed)**
Airlines: American Airlines
Airframe Manufacturers: Airbus, Boeing
Suppliers: Honeywell, Rockwell Collins
Others: DSPs - Rockwell Collins IMS, SITA
- 2.4 Recommended Coordination with other groups**
DLK Users Forum, RTCA SC-214 VDLSG, EUROCAE WG-92, EUROCONTROL Single European Sky (SES) Data Link Services (DLS).
- 3.0 Project Scope**
Prepare Supplement 7 to ARINC Specification 631 on a schedule aligned to European Single European Sky (SES) Data Link Services (DLS) initiatives.

Supplement 7 will provide guidance on the allocation of VDLM2 ground station addresses, define the downlink of perceived avionics channel utilization, add ground station requirements, address excessive ATN disconnects (i.e., provider aborts) and other long ATN delays plaguing the operation of European Data Link Services. It will consider any changes needed to support FAA Data Comm Services.

Supplement 7 will address frequency management (including multi-frequency provisions, autotune procedures, ground station handoff selection, excessive retries, etc.).

The DLK Systems Subcommittee will also consider the recent output from the European Large-Scale ATN (ELSA) Consortium regarding the ATN-over-VDL Mode 2 problems.

The schedule for Supplement 7 is based upon European VDL multi-frequency deployment and related activities within the SESAR Joint Undertaking (SJU).

3.1 Planned usage of the envisioned specification

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?

October ~~2011, 2016,~~ 2018

What is driving this date?

European Single European Sky (SES) Data Link Services (DLS) initiatives

Are 18 months (min) available for standardization work? yes no

Are Patent(s) involved? yes no

If YES please describe, identify patent holder: _____

3.2 Issues to be worked

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

