

ARINC IA Project Initiation/Modification (APIM)

Name of proposed project

Flight Simulator Guidance for the use of Avionics and Software in Flight Simulators (SimSoft) Working Group

APIM #: 07-005

Suggested Subcommittee assignment

Re-Activated Working Group under Future Concepts for Simulators Subcommittee

Project Scope

Review ARINC 610B to ensure relevance to contemporary Avionics.

Project Benefit

The update is intended to ensure the continued viability of ARINC 610B.

Airlines supporting effort

FedEx, Northwest, Lufthansa

Issues to be worked

Recent new aircraft types have highlighted the requirement to update ARINC 610B to better cover aircraft employing integrated modular avionics, include additional databus protocols (ARINC 664, CAN) and additional avionics equipment that is now becoming standard (EFB, HUD).

List typical functionality required on training devices to be covered by ARINC 610B e.g. extraction of flight plan data for display on Instructor Station.

Provide examples of the type of issue that requires SimSoft implementation to assist suppliers of software applications, particularly for systems not traditionally requiring SimSoft functionality, to assess if ARINC 610B is required for their system.

Extend the coverage of ARINC 610B to cover specific requirements for Military Applications and systems.

Recommended Coordination with other groups

The group will need to coordinate with regulatory authorities, avionics suppliers and airframe manufacturers.

Projects/programs supported by work

None

Timetable for projects/programs

2nd Quarter 2008

Documents to be produced and date of expected result

Revision C to ARINC 610B

Comments

None

Meetings

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

Activity	Mtgs	Mtg-Days	Docs
SimSoft Standards	2	4	1

For IA staff use

Date Received IA staff assigned: **Sam Buckwalter**

Potential impact:

(A. Safety B. Regulatory C. New aircraft/system D. **Other**)

Forward to committee(s) (AEEC, AMC, FSEMC): **FSEMC** Date Forward:

Committee resolution: **1**____

(0. Withdrawn 1. Authorized 2. Deferred 3. More detail needed 4. Rejected)

Assigned Priority: ____ Date of Resolution:

A. – High (execute first) B. – Normal (may be deferred for A.)

Assigned to SC/WG **Future Concepts for Simulation**