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Proposed Agenda
AMC Field Loadable Software (FLS) Subcommittee

ARINC Industry Activities
Melbourne, Florida
November 14-16, 2016

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1. Welcome and Admin Info   Ted Patmore
            Rod Gates
            Scott Smith

2. Introductions   All

3. Review Agenda and Previous Action Items   All

Overview:

- Summary of meeting work:

  - **ARINC Report 667:** *Guidance for the Management of Field Loadable Software,* Supplement 2: APIM 15-102
  - Week for Co-Located FLS / ASDM / SDL Work (See Last Page)
  - <u>FLS and ASDM Work Together Day on ASDM PP675 (See Last Page)</u>

- Issues and topics to consider for ARINC Report 667

  - Discussion of ASDM PP675 development concepts in relation to FLS. Management of UMS, Content, and Level E as non-Flight Critical data.
  - Update terms, part number formats, and other methods as a result of new technology.
  - Simplify software type tree to support a class->attribute approach for configuration management and load function determination.
  - Support changes due to A838, A665-4/5, A641
  - UMS – Need better guidance for installing on AC for troubleshooting.
  - Easier way to get UMS part on a plane. Improve airline process.
  - Software configuration management; (e-Enabled configuration reporting); ARINC Specification 843: Aircraft Software Common Configuration Reporting
  - Configuration management tools.
  - USB security and usage
  - PDL / Laptop Security Guidance

News:

- Name changed for SDL "Software Data Loader" to SDL "Software Distribution and Loading"

Monday:

- **ARINC Report 667:** *Guidance for the Management of Field Loadable Software,* Supplement 2: APIM 15-102
    - o Review changes to document since last meeting
    - o Solicit additional input not previously sent via email
    - o Review current state of document structure
    - o Determine content items
        - ▪ Terms as part of general Software Management Language

    Review inputs:
    - o Section 3 Software developed by users - Al Abalos (Panasonic)
    - o Data Tree; Chap 2 - Philippe Boutet (Airbus)
    - o Data Tree; Chap 2 - Todd Gould (Boeing)
    - o Sections re-ordering - Lanh Nguyen (Boeing)
    - o Review additional input not previously sent via email

Tuesday:

- Continue to review all all inputs.

Wednesday

- **Joint meeting with FLS and ASDM**.

- **Marcus Labay – FAA:**
    - o Discuss creation of new AC – Assurance of software distribution and loading integrity.
    - o Discuss FAA Evaluation Tool for use by operators to audit security of all processes and equipment involved with aircraft software distribution and loading.
    - o ASDM:
        - ▪ Signoff functions for local and remote software loading
    - o Level E:
        - ▪ Functions of concern; PA volume; SW controlled Fans;

- ▪ Maintenance vs Non-Maintenance loading actions
- Discussion of ASDM PP675 development concepts in relation to FLS. Management of UMS, Content, and Level E as non-Flight Critical data.
- Which parts of Level E belong to ASDM vs FLS management?

Availability of Materials

- All of the drafts, strawman papers, and working papers can be downloaded from the AMC Field Loadable Software (FLS) and Aircraft Support Data Management (ASDM) Subcommittee webpages, found here:

  http://www.aviation-ia.com/aeec/projects/fls/index.html

  http://aviation-ia.com/amc/projects/asdm/index.html

Action Items from Last Meeting

1. Research industry software security documents for applicability to air transport software data management – Delta Air Lines, Boeing
2. Review ASDM PP675: *Aircraft Support Data Management (ASDM)* – Delta Air Lines
3. Review all documents and provide inputs and comments as needed - All

Presentations

PRESENTATIONS SCHEDULED	COMPANY

Co-Located Meeting Information Shown Below:

Week Plan for Co-Located FLS / ASDM / ASDL Work

November 15-18, 2016

Location: Melbourne, FL.

Hosted by ARINC IA

FLS and ASDM Work Together Day on ASDM project

Sunday Nov 13	Monday Nov 14	Tuesday Nov 15	Wed_(Joint FLS/ASDM) Nov 16	Thurs Nov 17	Friday Nov 18	Saturday Nov 19
	FLS	FLS	FLS			
			ASDM	ASDM		
			SDL 13:00 - 1700	SDL	SDL	

- AMC Aircraft Support Data Management (ASDM) Working Group
    - Original goal is to streamline cabin software management processes. Support software requires some level of control, but less than that require for flight function software.
    - Defines a class of SW/Data (ASD) to reference in A667
    - **ARINC Project Paper 675:** *Aircraft Support Data Management*
- AMC Field Loadable Software (FLS) Working Group
    - **ARINC Specification 667A:** *Guidance for Management of Field Loadable Software*
- AEEC Software Data Loader Subcommittee
    - **ARINC Project Paper 849:** *Avionics Shop Loading of Line Replaceable Units*
    - **ARINC Project Paper 6XX:** *Common Standards for Aircraft Software Loading and Data Management*
    - **New ARINC Project xxx:** *eEnabled Aircraft Ground System for Managing and Distributing Software Parts*