



To SDL Subcommittee **Date** April 13, 2017

From Scott L. Smith **Reference** 17-999/SMA-005 kpp
scott.smith@sae-itc.org
tel +1 240-334-2582

Subject **Meeting Announcement**
Software Distribution and Loading (SDL) Subcommittee

Chairman Ted Patmore, Delta Air Lines
Rod Gates, American Airlines

Host Teledyne Controls has arranged for meeting space and a preferred rate for hotel accommodations.

When June 6-7, 2017 0900-1700
June 8, 2017 0900-1300

Where Meeting Location
Jurys Inn Parnell Street Dublin Hotel
Moore Street Plaza
Parnell Street
Dublin 1, D01, E0H3
Ireland
Tel +353 1 878 4900
Email: jurysinnparnellst@jurysinn.com
<https://www.jurysinns.com/hotels/dublin/parnell-street>
The meeting site is about 30 minutes from the Dublin International Airport (DUB). Travel information is provided later in this meeting announcement.

Hotel Reservation Information
The meeting will be held at the Jurys Inn Parnell Hotel in Dublin, Ireland. Teledyne Controls has arranged a preferred room rate of **€175 EUR** for the SDL meeting attendees. Breakfast is included in the room rate.
Note: The amount of rooms available at the group rate is limited.
To make your reservations, send an email to parnellst_conference@jurysinn.com and use the code "ARINC SDL Group."

Instruction Please notify ARINC Industry Activities of your intention to attend by registering online at: <http://www.aviation-ia.com/events/>.

Any material intended to be circulated prior to the meeting should be submitted before **June 2, 2017**. The meeting is open to all interested parties. Individuals requesting time on the agenda should contact Scott Smith. The agenda will be finalized one week prior to the meeting.

Activity Scope The SDL Subcommittee's objective is to develop standards for software data loading. This includes continued development of high-speed data loaders, high-density storage media, and loading protocols. Standards for file format, media type, part numbering, and terminology are developed in a way that can be used on various data loading devices.

This subcommittee prepares documents for the interfaces between the software data loader and the target hardware. It also prepares standard formats for Loadable Software Airplane Parts (LSAPs) so that all of the requirements of configuration management of LSAPs may be accomplished.

The work of this subcommittee allows common tools to be used for the transfer of LSAPs from the airline to the target hardware, whether it is installed onboard the aircraft or on the test bench.

Meeting Objectives **ARINC Project Paper 645: Common Standards for Data Loading and Management**

The SDL Subcommittee will continue work on a document intended to provide a single reference for industry data loading standards, including guidance on:

- Integrity validation (CRC checks, SHA methods, etc.)
- Overview of Digital Certificates in airborne software
- Common terminology and definitions listing
- Incorporate guidance found in AEEC Technical Application Bulletins (TAB):
 - TAB 06-111/ABN-012: Software Data Loading, Networking, and Security
 - TAB 13-047/ABN-045: Cyclic Redundancy Codes (CRC) Test Cases
- Note that this work will not affect **ARINC Report 835: Guidance for Digital Certificates**

Future software or communication protocol-specific ARINC Standards and Supplements to existing standards will refer to this document as a single source of reference material, precluding multiple definitions and methods used in the air transport industry.

This project is expected to be mature in October 2017.

APIM 16-015: Software Ground Systems for e-Enabled Aircraft

The SDL Subcommittee will continue discussion about standardizing the software management ground systems such that an airline or operator could use one ground system for any manufacturer's aircraft.

Airframe manufacturers have different systems, requiring airlines that utilize fleets from multiple manufacturers to install and support divergent software management suites. The resulting cost and resources required is not insignificant.

Having a hosted solution that supports this standard is also desired. Some airlines and operators do not have or want the capability to host the IT infrastructure required to support e-Enabled aircraft.

The discussion will continue documenting features of one or more Application Program Interfaces (API) that are envisioned to work with more than one software supplier through a single, standardized function through potentially multiple backplane services.

Meeting Schedule

Tuesday June 6, 2017 0900-1700

The SDL Subcommittee will accomplish a comprehensive review of **ARINC Project Paper 645: *Common Standards for Data Loading and Management***. The intent is to produce a mature document for industry review. ARINC Project Paper 845 is expected to be mature in October 2017.

Wednesday June 7, 2017 0900-1700

The SDL Subcommittee will continue work on **ARINC Project Paper 8XX: *Software Ground Systems for e-Enabled Aircraft***. The standardization of Public Key Infrastructure (PKI) usage in the aviation industry will be discussed. The intent is to define an Application Program Interface (API) for ground systems across multiple airframe types and software suppliers.

Thursday June 8, 2017 0900-1300

The SDL may continue work on ARINC Project Paper 8XX. New projects and updates to existing standards will be discussed.

Travel Information

Dublin, Ireland

Dublin International Airport (DUB) is located 6 miles (10 km) from the meeting site. Please make your room reservations with the Jurys Inn Parnell Hotel as soon as possible. The amount of rooms is limited.

A hotel shuttle from the airport is not provided. The hotel is accessible by taxi or bus.

Note: Parking in the downtown area is difficult to find, and expensive. A rental car is not advised.

Please make your own air and ground transportation arrangements.

Web links for your convenience:

<https://www.dublinairport.com/>

<http://www.visitdublin.com/>

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