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Superseding AS6518		
(R) Unmanned Systems (UxS) Control Segment (UCS) Architecture: UCS Architecture Model		

RATIONALE

This document identifies the elements that comprise the architecture model of the SAE Unmanned Systems (UxS) Control Segment (UCS) Architecture Revision A. The complete rationale for the UCS Architecture Revision A is provided in the UCS Architecture Description, AS6512™A.

FOREWORD

The SAE UCS Architecture Library comprises both documents and models. In Revision A, the documents provide the Architecture Description (AS6512™A), Conformance Specification (AS6513™A) and Architecture Technical Governance (AS6522™A). In Revision A, there is one model (AS6518™A), which is distributed in an archive file (AS6518A.zip) containing the model file itself (AS6518A-MODEL.eapx), the model Version Description Document (AS6518A-VDD.pdf) and this document (AS6518.pdf).

The model file can be opened in Sparx Systems Enterprise Architect (EA) Version 15.0 or later with SysML and UAF support. The required custom Model Driven Generation (MDG) Technologies for the UCS Architecture Model are embedded within the model and therefore additional tool configuration is not required. These embedded technologies are Data Model Framework (DMF) and UCS Architecture Revision A.

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<https://www.sae.org/standards/content/AS6518A/>

1. SCOPE

The scope and purpose of the UCS Architecture Library Revision A is provided in AS6512™A. The scope of this document is to identify the elements of the UCS Architecture Model Revision A as distributed in the AS6518A.zip file, establish the terms and conditions and user license agreement for the architecture model, and provide other metadata.

2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AS6512A	UxS Control Segment (UCS) Architecture: Architecture Description
AS6513A	UxS Control Segment (UCS) Architecture: Conformance Specification
AS6522A	UxS Control Segment (UCS) Architecture: Architecture Technical Governance

3. MODEL ARCHIVE CONTENTS

The model archive (AS6518A.zip) contains three files. These are the model file (AS6518A-MODEL.eapx), the version description document (AS6518A-VDD.pdf) and this document (AS6518A.pdf).

3.1 Model File

The model file (AS6518A-MODEL.eapx) can be opened in any of the Sparx Systems Enterprise Architect (EA) Version 15 (or later) products that is natively configured or user configured to support the Object Management Group (OMG) System Modeling Language (SysML) Version 1.5 (or later) and Unified Architecture Framework (UAF) Version 1.0 (or later).

The model file has two embedded MDG Technology add-ins that are required for the UCS Architecture Model. These are the Data Model Framework (DMF) add-in and the UCS Architecture Revision A add-in. The profiles that were used to create the DMF MDG Technology add-in are provided in the Data Model Framework 1.1 package in the model. The profiles that were used to create the UCS MDG Technology add-in are provided in the UCS Architecture Technical Governance package in the model.

In contrast to the original UCS Architecture Library, there are no derived models that are officially distributed as part of the Revision A Library. The conformance requirements for UCS products based on this or third-party derived models are established in AS6513™A.

3.2 Version Description Document

The VDD provides a high-level summary of the changes in the Revision A model. Further information about changes in the scope and purpose of Revision A may be obtained from AS6512™A and AS6522™A.