



AEROSPACE STANDARD

AS6513™**REV. A**Issued 2016-12
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Superseding AS6513

(R) Unmanned Systems (UxS) Control Segment (UCS) Architecture: Conformance Specification

RATIONALE

This revision of AS6513 concerns conformance to the UCS Architecture Library Revision A (or later), designated AS6512A (or later). The superseded AS6513 concerned conformance to the original UCS Architecture Library, designated AS6512.

The original AS6512 comprised the authoritative UCS Architecture Model (AS6518) plus derived views of that model for various stakeholders. These were AIR6514, AIR6515, AIR6516, and AIR6517. In AS6512A, these derived views have been removed, simplifying conformance to only AS6518A (or later).

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1. SCOPE

This revision of AS6513 concerns conformance to the SAE Unmanned Systems (UxS) Control Segment (UCS) Architecture Revision A Library, designated AS6512A (or later). The superseded AS6513 concerned conformance to the original UCS Architecture Library, designated AS6512.

This document is the authoritative specification within the UCS Architecture for establishing conformance requirements for UCS products. The UCS products addressed by this specification are UCS software components and UCS software configurations that provide one or more UCS services, and UCS systems that employ one or more UCS services.

The conformance of UCS products is determined by assessing the conformance of the UCS product description to the UCS Architecture. The UCS product description includes test artifacts.

1.1 Purpose

The purpose of this specification is to establish verifiable conformance requirements for UCS products.

1.2 Field of Application

This specification applies to all conformant UCS software components, UCS software configurations, and UCS systems that are described in a UCS product registry or UCS product repository. The document is applicable to the complete lifecycle of UCS product descriptions, including requirements definition, acquisition and development, deployment and maintenance, and obsolescence.

1.3 Precedence

This document is the authoritative source of conformance requirements for UCS products and takes precedence over all other documents in the UCS Architecture Library and all other references on the subject of UCS product conformance. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The stated 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.

2.1.1 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	Unmanned Systems (UxS) Control Segment (UCS) Architecture: Architecture Description
AS6518A	Unmanned Systems (UxS) Control Segment (UCS) Architecture: UCS Architecture Model
AS6522A	Unmanned Systems (UxS) Control Segment (UCS) Architecture: Architecture Technical Governance

2.1.2 ISO Publications

Available at <http://webstore.ansi.org/>.

ISO/IEC/IEEE 42010 Systems and Software Engineering - Architecture Description