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Superseding AIR6520		
Unmanned Systems (UxS) Control Segment (UCS) Architecture: Version Description Document		

#### RATIONALE

This document is no longer part of UCS Architecture as of Revision A.

#### STABILIZED NOTICE

This document has been declared "STABILIZED" by SAE AS-4UCS Unmanned Systems Control Segment Architecture Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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## 1. SCOPE

Governance of the Unmanned Aircraft System (UAS) Control Segment (UCS) Architecture was transferred from the United States Office of the Secretary of Defense (OSD) to SAE International in April 2015. Consequently, a subset of the UCS Architecture Library Release 3.4(PR) has been published under SAE as the Unmanned Systems (UxS) Control Segment (UCS) Architecture, AS6512. This Version Description Document (VDD) describes the correspondence and differences between the two architecture libraries.

## 2. APPLICABLE DOCUMENTS

There are no referenced publications specified herein.

## 3. SUMMARY OF DOCUMENT UPDATES

### 3.1 System-of-Interest

Under SAE, the name of the UCS Architecture has been changed from the OSD Unmanned Aircraft System (UAS) Control Segment (UCS) Architecture to the Unmanned Systems (UxS) Control Segment (UCS) Architecture. This reflects a strategic change in scope from U.S. Department of Defense UAS Groups 2 through 5 to all UxS including military and non-military unmanned vehicles whose means of conveyance can be air, water, or ground.

However, the current technical content of AS6512 is still based on Department of Defense use cases for UAS Groups 2 through 5. No additional technical requirements have been added at this time. Support for additional unmanned systems would be provided by conformant user extensions to AS6518 as permitted by AS6513 (UCS Architecture: Conformance Specification).

### 3.2 Library

The correspondence between the two architecture libraries is summarized in Table 1. In general, the original OSD configuration item was either retired or republished under SAE. The republication of an OSD configuration resulted in no technical changes from R3.4(PR) for users of R3.4(PR). Under SAE, the UCS Architecture Description (AS6512) serves as the formal definition of the UCS Architecture with the other documents in the UCS Architecture Library being a part of AS6512 by reference.

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