



ATSC Standard: A/360:2023-08 Amendment No. 1, “MMT Signing”

Doc. A/360:2023-08 Amend. No. 1
12 December 2023

Advanced Television Systems Committee
1300 I Street, N.W., Suite 400E
Washington, D.C. 20005
202-872-9160

The Advanced Television Systems Committee, Inc. is an international, non-profit organization developing voluntary standards and recommended practices for broadcast television and multimedia data distribution. ATSC member organizations represent the broadcast, professional equipment, motion picture, consumer electronics, computer, cable, satellite, and semiconductor industries. ATSC also develops implementation strategies and supports educational activities on ATSC standards. ATSC was formed in 1983 by the member organizations of the Joint Committee on Inter-society Coordination (JCIC): the Consumer Technology Association (CTA), the Institute of Electrical and Electronics Engineers (IEEE), the National Association of Broadcasters (NAB), the Internet & Television Association (NCTA), and the Society of Motion Picture and Television Engineers (SMPTE). For more information visit www.atsc.org.

Note: The user's attention is called to the possibility that compliance with this standard may require use of an invention covered by patent rights. By publication of this standard, no position is taken with respect to the validity of this claim or of any patent rights in connection therewith. One or more patent holders have, however, filed a statement regarding the terms on which such patent holder(s) may be willing to grant a license under these rights to individuals or entities desiring to obtain such a license. Details may be obtained from the ATSC Secretary and the patent holder.

Implementers with feedback, comments, or potential bug reports relating to this document may contact ATSC at <https://www.atsc.org/feedback/>.

Revision History

Version	Date
Amendment approved	12 December 2023

**ATSC Standard:
A/360:2023-08 Amendment No. 1, “MMT Signing”**

1. OVERVIEW

1.1 Definition

An Amendment is generated to document an enhancement, an addition or a deletion of functionality to previously agreed technical provisions in an existing ATSC document. Amendments shall be published as attachments to the original ATSC document. Distribution by ATSC of existing documents shall include any approved Amendments.

1.2 Scope

This document adds clarity related to signal signing for emissions using the MMT protocol. This amendment is in response to New Project Proposal N-066r0, “MMT Signing Improvements.”

1.3 Rationale for Changes

The changes described in this document are being proposed to improve the clarity of signal signing for use with the MMT protocol.

1.4 Compatibility Considerations

The changes described in this document are informative and do not affect compatibility.

2. LIST OF CHANGES

Change instructions are given below in *italics*. Unless otherwise noted, inserted text, tables, and drawings are shown in **blue**; deletions of existing text are shown in **red strikeout**. The text “[ref]” indicates that a cross reference to a cited referenced document should be inserted.

2.1 Normative References

No changes proposed.

2.2 Informative References

No changes proposed.

2.3 Acronyms and Abbreviations

No changes proposed.

2.4 Terms

No changes proposed.

2.5 Change Instructions

Update Section 5.2.2.5 as follows:

5. [PLACEHOLDER]

5.2 [Placeholder]

5.2.2 [Placeholder]

5.2.2.5 Signatures for MMT Messages

The broadcaster signature of an MMT message is applied to MMTP packets carrying signaling messages and MA3 messages and not to MMTP packets carrying Assets. The signature is applied across `message_instance()`, ~~the entire MMT message (not including the signature)~~ as described in A/331 [26], and shall be carried in a CMS Signed Data (RFC 5652 [13]) structure with the following characteristics:

- 1) The characteristics specified in Section 5.2.2.1 above.
- 2) The SignerIdentifier shall match either the CurrentCert or, if present, the NextCert.

– End of Document –