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Part 7: Unified speech and audio coding conformance testing

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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A list of all parts in the ISO/IEC 23003 series can be found on the ISO and IEC websites.

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Information technology — MPEG audio technologies —

Part 7:
Unified speech and audio coding conformance testing

1 Scope

This document specifies conformance criteria for both bitstreams and decoders compliant with the MPEG-D Unified speech and audio coding standard as defined in ISO/IEC 23003-3. This is done to assist implementers and to ensure interoperability.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 23003-3, *Information technology — MPEG audio technologies — Part 3: Unified speech and audio coding*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Conformance testing

4.1 General

This clause specifies conformance criteria for both bitstreams and decoders compliant with the USAC standard as defined in this document. This is done to assist implementers and to ensure interoperability.

4.2 USAC conformance testing

4.2.1 Profiles

Profiles are defined in ISO/IEC 23003-3:2020, Subclause 4.5. Some conformance criteria apply to USAC in general, while others are specific to certain profiles and their respective levels. Conformance shall be tested for the level of the profile with which a given bitstream or decoder claims to comply.

In addition to the conformance requirements described in this clause, a decoder, which claims to comply with the Extended HE AAC Profile, shall fulfil conformance for the HE AAC v2 profile according to ISO/IEC 14496-26.

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