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ETSI STANDARD

**Integrated broadband cable
telecommunication networks (CABLE);
Sixth generation transmission systems for interactive cable
television services - IP cable modem;
Part 3: MAC and upper layer protocol interfaces; DOCSIS® 4.0
[ANSI/SCTE 262-2 2020]**

Reference

DES/CABLE-0029-3

Keywords

access, broadband, CABLE, DOCSIS,
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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00   Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° w061004871

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Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Integrated broadband cable telecommunication networks (CABLE).

The present document is part 3 of a multi-part deliverable. Full details of the entire series can be found in part 1 [2].

DOCSIS® is a registered trade mark of Cable Television Laboratories, Inc., and is used in the present document with permission.

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

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1   Scope

The present document provides the ETSI endorsement of ANSI/SCTE standard ANSI/SCTE 262-2 [1].

ANSI/SCTE 262-2 [1] is part of a series of standards that defines the sixth generation of high-speed data-over-cable systems and is based on a set of specifications commonly referred to as DOCSIS 4.0 specifications. This generation of the DOCSIS specifications builds upon the previous generations of DOCSIS specifications (commonly referred to as the DOCSIS 3.1 and earlier specifications), leveraging the existing Media Access Control (MAC) and Physical (PHY) layers with the addition of appropriate updates to the MAC and management layers to support new PHY functionality. It includes backward compatibility for the existing PHY layers in order to enable a seamless migration to the new technology.

ANSI/SCTE 262-2 [1] defines the interface for the MAC and upper layer protocols, and corresponds to the CableLabs specification CM-SP-MULPIv4.0-I01-190815 [i.1].

2   References

2.1   Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at https://docbox.etsi.org/Reference/.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

[1]   ANSI/SCTE 262-2 2020: "DOCSIS 4.0 Part 2: MAC and Upper Layer Protocols Interface Specification".

[2]   ETSI ES 203 811-1: "Integrated broadband cable telecommunication networks (CABLE); Sixth generation transmission systems for interactive cable television services - IP cable modem; Part 1: General; DOCSIS® 4.0".

2.2   Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1]   Cable Television Laboratories, Inc.: "DOCSIS 4.0 MAC and Upper Layer Protocols Interface Specification", CM-SP-MULPIv4.0-I01-190815.

3   Definition of terms, symbols and abbreviations

3.1   Terms

For the purposes of the present document, the terms given in ANSI/SCTE 262-2 [1] apply.

3.2   Symbols

For the purposes of the present document, the symbols given in ANSI/SCTE 262-2 [1] apply.

3.3   Abbreviations

For the purposes of the present document, the abbreviations given in ANSI/SCTE 262-2 [1] apply.

Endorsement notice

All elements of ANSI/SCTE 262-2 [1] shall apply without modifications.