



**Integrated broadband cable  
telecommunication networks (CABLE);  
Sixth generation transmission systems for interactive cable  
television services - IP cable modems;  
Part 5: Converged Cable Access Platform (CCAP)  
operations support system interface; DOCSIS® 4.0  
[ANSI/SCTE 262-4 2020]**

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**Reference**

DES/CABLE-0029-5

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# Foreword

This final draft ETSI Standard (ES) has been produced by ETSI Technical Committee Integrated broadband cable telecommunication networks (CABLE), and is now submitted for the ETSI standards Membership Approval Procedure.

The present document is part 5 of a multi-part deliverable. Full details of the entire series can be found in part 1 [2].

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# 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).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

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# 1 Scope

The present document provides the ETSI endorsement of ANSI/SCTE standard ANSI/SCTE 262-4 [1].

ANSI/SCTE 262-4 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 layer 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 262-4 [1] defines the requirements necessary for the configuration, fault management and performance management of Cable Modem Termination Systems (CMTS) and the Converged Cable Access Platform (CCAP) system. The intent of the standard is to define a common, cross-vendor set of functionality for the configuration and management of CMTSs and CCAPs.

The present document defines a standard configuration information model for the configuration of the CCAP. The present document also defines the SNMP management requirements for a CCAP. These SNMP requirements include both protocol conformance and management object definitions, based largely upon existing industry standard management objects found in DOCSIS CMTSs and universal EQAMs. In addition, The present document defines the standard event messaging requirements of a CCAP system.

ANSI/SCTE 262-4 [1] corresponds to the CableLabs specification CM-SP-CCAP-OSSIV4.0-I02-200311 [i.1].

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## 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.

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**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 262-4 2020: "DOCSIS 4.0 Part 4: CCAP Operations Support System 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

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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 CCAP Operations Support System Interface Specification", CM-SP-CCAP-OSSIV4.0-I02-200311.

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

For the purposes of the present document, the terms given in ANSI/SCTE 262-4 [1] apply.

### 3.2 Symbols

For the purposes of the present document, the symbols given in ANSI/SCTE 262-4 [1] apply.

### 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ANSI/SCTE 262-4 [1] apply.

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## Endorsement notice

All elements of ANSI/SCTE 262-4 [1] shall apply without modifications.

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