

# **SCTE** | **STANDARDS**

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**Data Standards Subcommittee**

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**AMERICAN NATIONAL STANDARD**

**ANSI/SCTE 262-4 2020**

**DOCSIS 4.0 Part 4: CCAP™ Operations Support  
System Interface Specification**

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140 Philips Road  
Exton, PA 19341

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## 1. Introduction

### 1.1. Executive Summary

The present document provides the SCTE endorsement of CableLabs specification: CM-SP-CCAP-OSSIV4.0-I02-200311.

### 1.2. Scope

This specification is part of the DOCSIS®<sup>1</sup> family of specifications developed by Cable Television Laboratories (CableLabs). In particular, this specification is part of a series of specifications that define the sixth generation of high-speed data-over-cable systems, DOCSIS 4.0. This specification was developed for the benefit of the cable industry and includes contributions by operators and vendors from North America, Europe, and other regions.

This document defines the requirements necessary for the Configuration, Fault Management, and performance Management of the Cable Modem Termination System (CMTS) and the Converged Cable Access Platform (CCAP) system. The intent of this specification is to define a common, cross-vendor set of functionalities for the configuration and management of CMTSs and CCAPs.

This specification defines a standard configuration object model for the configuration of the CCAP. This specification 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, this specification defines the standard Event Messaging requirements of a CCAP system.

DOCSIS 4.0 builds on DOCSIS 3.1 technology and significantly increases upstream capacity with the addition of Full Duplex capabilities.

## 2. Normative References

The following documents contain provisions, which, through reference in this text, constitute provisions of this document. At the time of Subcommittee approval, the editions indicated were valid. All documents are subject to revision; and while parties to any agreement based on this document are encouraged to investigate the possibility of applying the most recent editions of the documents listed below, they are reminded that newer editions of those documents might not be compatible with the referenced version.

### 2.1. SCTE References

- No normative references are applicable.

### 2.2. Standards from Other Organizations

[1] CCAP™ Operations Support System Interface Specification, CM-SP-CCAP-OSSIV4.0-I02-200311, March 11, 2020, Cable Television Laboratories, Inc. [www.cablelabs.com](http://www.cablelabs.com)

### 2.3. Published Materials

- No normative references are applicable.

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<sup>1</sup> DOCSIS® is a registered trademark of Cable Television Laboratories, Inc

### 3. Informative References

The following documents might provide valuable information to the reader but are not required when complying with this document.

#### 3.1. SCTE References

- No informative references are applicable.

#### 3.2. Standards from Other Organizations

- No informative references are applicable.

#### 3.3. Published Materials

- No informative references are applicable.

### 4. Compliance Notation

<i>shall</i>	This word or the adjective “ <i>required</i> ” means that the item is an absolute requirement of this document.
<i>shall not</i>	This phrase means that the item is an absolute prohibition of this document.
<i>forbidden</i>	This word means the value specified shall never be used.
<i>should</i>	This word or the adjective “ <i>recommended</i> ” means that there may exist valid reasons in particular circumstances to ignore this item, but the full implications should be understood and the case carefully weighted before choosing a different course.
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<i>deprecated</i>	Use is permissible for legacy purposes only. Deprecated features may be removed from future versions of this document. Implementations should avoid use of deprecated features.

### 5. Abbreviations and Definitions

#### 5.1. Abbreviations

For the purposes of the present document, the abbreviations given in CableLabs specification: CM-SP-CCAP-OSSIV4.0-I02-200311, [1] apply.

#### 5.2. Definitions

For the purposes of the present document, the abbreviations given in CableLabs specification: CM-SP-CCAP-OSSIV4.0-I02-200311 [1] apply.

## 6. Endorsement Notice

All elements of CableLabs specification: CM-SP-CCAP-OSSIV4.0-I02-200311 [1] *shall* apply without modifications.