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## S T A N D A R D S

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**Data Standards Subcommittee**

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**AMERICAN NATIONAL STANDARD**

**ANSI/SCTE 260-2 2020**

**DPoE IP Network Element Requirements**

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## 1. Introduction

### 1.1. Executive Summary

The present document provides the SCTE endorsement of CableLabs specification: DPoE-SP-IPNEv2.0-I07-170228.

### 1.2. Scope

As the name suggests, the scope for this document is the MAC and upper layer protocols for DPoE Networks. The MAC in DPoE Networks is EPON. This specification does not place any additional requirements on the EPON MAC beyond the [802.3] specifications for EPON. The first set of requirements is for the support of DOCSIS-based Operations Administration Maintenance and Provisioning (OAMP) for the MAC and upper layer protocols as specified in [MULPIv3.0]. The second set of requirements is in addition to the above functionality traffic classification (as provisioned) and traffic forwarding (as both provisioned and according to the requirements set forth in this specification).

The primary additions to the DOCSIS specifications are the requirements and accompanying specifications for

Metro Ethernet services as described in [DPoE-MEFv2.0].

## 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] DPoE IP Network Element Requirements, DPoE-SP-IPNEv2.0-I07-170228, February 28, 2018, Cable Television Laboratories, Inc. [www.cablelabs.com](http://www.cablelabs.com)

### 2.3. Published Materials

- No normative references are applicable.

## 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 “ <b>required</b> ” 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.
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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: DPoE-SP-IPNEv2.0-I07-170228, [1] apply.

### 5.2. Definitions

For the purposes of the present document, the definitions given in CableLabs specification: DPoE-SP-IPNEv2.0-I07-170228 [1] apply.

## 6. Endorsement Notice

All elements of CableLabs specification: DPoE-SP-IPNEv2.0-I07-170228 [1] **shall** apply without modifications.