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S T A N D A R D S

Data Standards Subcommittee

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**DPoE Operations and 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: DPoE-SP-OSSIV2.0-I12-180228.

1.2. Scope

This specification identifies requirements for the adaptation or additions to DOCSIS specifications that are required to support DPoE Networks related to the Operations Support System functional area.

This specification also:

- Provides interoperability with existing DOCSIS-based back-end provisioning and management systems for EPON-based devices;
- Re-uses and extends the existing DOCSIS L2VPN specification [L2VPN] to support DPoE-based Metro Ethernet Forum (MEF) services;
- Specifies interoperable implementations for various DPoE vendors;
- Supports IPDR functionality for DPoE Networks, including enhancements to the existing DOCSIS 3.0 object model to instrument features and capabilities specific to DPoE Networks;
- Supports IPv4 and IPv6 for DPoE Networks substantively the same as DOCSIS 3.0;
- Extends the object model defined in the DOCSIS 3.0 SNMP Management Information Bases (MIBs) to address new capabilities introduced by DPoE specifications.

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 Operations and Support System Interface Specification, DPoE-SP-OSSIV2.0-I12-180228, February 28, 2018, Cable Television Laboratories, Inc. 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 “ <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: DPoE-SP-OSSIV2.0-I12-180228, [1] apply.

5.2. Definitions

For the purposes of the present document, the definitions given in CableLabs specification: DPoE-SP-OSSIV2.0-I12-180228 [1] apply.

6. Endorsement Notice

All elements of CableLabs specification: DPoE-SP-OSSIV2.0-I12-180228 [1] *shall* apply without modifications.