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DPoE Metro Ethernet Forum Specification

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1. Introduction

1.1. Executive Summary

The present document provides the SCTE endorsement of CableLabs specification: DPoE-SP-MEFv2.0-I06-180228.

1.2. Scope

This document describes the DPoE Network version 2.0 provisioning and operations requirement to support Metro Ethernet Services in DPoE Networks, which use EPON as defined in [802.3].

This document describes the provisioning of MEF E-Line (EPL and EVPL), E-LAN (EP-LAN and EVP-LAN), and E-Tree (EP-Tree and EVP-Tree) service in the DPoE Network.

While Section 5 of this document provides Metro Ethernet service overview and theory of operation in the DPoE Network, the other sections, as listed below, provide the requirements for the DPoE Network elements to support these services.

This document contains the following normative sections:

- Section 6 describes Metro Ethernet service requirements for the DPoE Network Elements.
- Section 7 describes performance and fault management requirements.
- Annex A describes new TLVs.
- Annex B provides a summary of TLVs to support service attributes for MEF E-Line, E-LAN, and E-Tree services within a single operator's network

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 Metro Ethernet Forum Specification, DPoE-SP-MEFv2.0-I06-180228, 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-MEFv2.0-I06-180228, [1] apply.

5.2. Definitions

For the purposes of the present document, the definitions given in CableLabs specification: DPoE-SP-MEFv2.0-I06-180228 [1] apply.

6. Endorsement Notice

All elements of CableLabs specification: DPoE-SP-MEFv2.0-I06-180228 [1] *shall* apply without modifications.