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Enterprise SIP Gateway Specification

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1. Introduction

1.1. Executive Summary

The present document provides the SCTE endorsement of CableLabs specification: PKT-SP-ESG-C01-170405.

1.2. Scope

This specification defines the requirements for the PacketCable 2.0 Enterprise SIP Gateway (ESG) device. The primary purpose of the ESG is to simplify and streamline the initial deployment and ongoing management of Business Voice services to enterprise customers. The ESG sits at the boundary between the Service Provider and Enterprise network and serves as a demarcation point between these two networks. It normalizes the wide variety of SIP (Session Initiation Protocol) signaling protocols supported by currently deployed enterprise CPE (Customer Premises Equipment) equipment into a single well-defined interface that is compatible with the PacketCable network. It also provides enhanced fault detection and reporting capabilities that speed up the detection, isolation, and resolution of service-affecting failures. Finally, the ESG can act as a Gateway device for provisioning traffic between the Service Provider network and operator-owned and managed Enterprise CPE equipment.

The ESG comes in two flavors - an embedded version where the ESG device contains a DOCSIS® Cable Modem, and a stand-alone version where the ESG device is separate from and connected to the PacketCable access network via a standard Ethernet interface.

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] Enterprise SIP Gateway Specification, PKT-SP-ESG-C01-170405, April 5, 2017, 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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5. Abbreviations and Definitions

5.1. Abbreviations

For the purposes of the present document, the abbreviations given in CableLabs specification: PKT-SP-ESG-C01-170405 [1] apply.

5.2. Definitions

For the purposes of the present document, the abbreviations given in CableLabs specification: PKT-SP-ESG-C01-170405 [1] apply.

6. Endorsement Notice

All elements of CableLabs specification: PKT-SP-ESG-C01-170405 [1] *shall* apply without modifications.