



Society of Cable Telecommunications Engineers Inc.
 140 Philips Road
 Exton, PA 19341-1318
 Phone: (610) 363-6888
 Fax: (610) 363-7133

PATENT STATEMENT AND LICENSING DECLARATION

Note: This form complies with the American National Standards Institute Procedures for the Development and Coordination of American National Standards. This declaration does not imply a license grant.

Name of Patent Holder Organization Cable Television Laboratories, Inc.

(If the submitter is notifying SCTE that another organization holds a relevant patent, the holding organization is identified above and the notifying organization below.)

Organization Name	
Organization Address	
Contact Name / Title	
Telephone / Facsimile	
Email	
Designation and Title of SCTE Standard	DOCSIS 3.1 Suite of standards
<small>(list sections of the standard to which patent claims relate)</small>	
Registration Number(s) - please fill in the form on page 2	

Licensing declaration: Please check one of the following statements:

1. The patent holder does not believe that it holds patents that are essential to the implementation of any SCTE standards.
2. The Patent Holder will grant a license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and on fair and reasonable terms and conditions solely to use the patented material necessary in order to manufacture, use, and/or sell implementations of the named SCTE standard.
 Note: Negotiations of such licenses are left to the parties concerned and are performed outside of the national and international standards organizations.
3. The patent holder is unwilling to grant licenses in accordance with the provisions of 2 above.
- If box 2 is checked, please also check here if the Patent Holder is willing to license without compensation.
- If box 2 is checked, please also check here if the Patent Holder's willingness to license is conditioned on reciprocity. Reciprocity means that, with respect to prospective licensees that have one or more patents or patent claims that also are necessary for the implementation of the same standard, the Patent Holder shall only be required to license such prospective licensees if such prospective licensees will commit to license their essential patent(s) or patent claim(s) for implementation of the same standard under reasonable and non-discriminatory terms and conditions.

NOTE: The terms under which CableLabs will grant the license identified in box 2 above, and the terms of reciprocity, are set for the in the Data Over Cable Service Interface Specification License Agreement (attached). CableLabs retains the right to assert its patents (including the right for injunctive relief) against any party that asserts a patent it owns or controls (either directly or indirectly) against CableLabs or any of CableLabs' members and their affiliates, or against any products or services of CableLabs or any products or services of any of CableLabs' members and their affiliates, either alone or in combination with other products or services; and CableLabs retains the right to assert its patents against any product or portion thereof that is not necessary for compliance with the SCTE standard.

making this declaration:

Name (printed) Lee W. Zieroth

Title: Sr Vice President and General Counsel

Organization: Cable Television Laboratories, Inc.

Name (signed) [Signature]

Date: February 19, 2014

Place Louisville CO

Questions may be sent to: standards@scte.org or via fax to (610) 363-7133.



PATENT STATEMENT AND LICENSING DECLARATION

Patent Registration Information

Patent Number, Country	Patent Title, Inventor	Status (Granted or Pending)
All necessary patents, once issued, for all countries		



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Contact Name / Title	
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Designations and Titles of SCTE Standards (list sections of the standard to which patent claims relate)	DPoE Architecture Specification v2.0 DPoE IP Network Elements Requirements v2.0 DPoE Metro Ethernet Forum v2.0 DPoE MAC and Upper Layer Protocols Interface v2.0 DPoE OAM Extensions Specification v2.0 DPoE Operations Support System Interface Specification v2.0 DPoE Physical Layer Specification v2.0 DPoE Security Specification v2.0
Registration Number(s) - please fill in the form on page 2	

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NOTE: The terms under which CableLabs will grant the license identified in box 2 above, and the terms of reciprocity, are set for the in the CableLabs Contribution and License Agreement for the DOCSIS® Provisioning of Ethernet Passive Optical Networks ("DPoE™") which is attached. CableLabs retains the right to assert its

patents (including the right for injunctive relief) against any party that asserts a patent it owns or controls (either directly or indirectly) against CableLabs or any of CableLabs' members and their affiliates, or against any products or services of CableLabs or any products or services of any of CableLabs' members and their affiliates, either alone or in combination with other products or services; and CableLabs retains the right to assert its patents against any product or portion thereof that is not necessary for compliance with the SCTE standard.

Authorized person signing this declaration:

Name (printed) Simon Krauss Title: Deputy General Counsel Organization: Cable Television Laboratories, Inc.

Name (signed) *Simon Krauss* Date: November 17, 2016 Place Louisville CO

Questions may be sent to: standards@scte.org or via fax to (610) 363-7133.



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Patent Registration Information

Patent Number, Country	Patent Title, Inventor	Status (Granted or Pending)
All necessary patents, once issued, for all countries		



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Organization Name
Organization Address
Contact Name / Title
Telephone / Facsimile
Email
Designations and Titles of SCTE Standards (list sections of the standard to which patent claims relate) <ul style="list-style-type: none"> IPCablecom High Definition Voice Specification IPCablecom HDV NCS Specification IPCablecom HDV Provisioning Specification IPCablecom HDV SIP Specification IPCablecom SIP Enterprise Gateway Technical Report IPCablecom SIP Enterprise Gateway Provisioning Specification
Registration Number(s) - please fill in the form on page 2

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NOTE: The terms under which CableLabs will grant the license identified in box 2 above, and the terms of reciprocity, are set for the in the CableLabs Contribution and License Agreement for Intellectual Property for the PacketCable™ Project which is attached. CableLabs retains the right to assert its patents (including the right for injunctive relief) against any party that asserts a patent it owns or controls (either directly or indirectly) against CableLabs or any of CableLabs' members and their affiliates, or against any products or services of CableLabs or any products or services of any of CableLabs' members and their affiliates, either alone or in combination

with other products or services; and CableLabs retains the right to assert its patents against any product or portion thereof that is not necessary for compliance with the SCTE standard.

Authorized person signing this declaration:

Name (printed) Simon Krauss Title: Deputy General Counsel Organization: Cable Television Laboratories, Inc.

Name (signed) *Simon Krauss* Date: November 17, 2016 Place Louisville CO

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Organization Name	
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Contact Name / Title	
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Email	
Designations and Titles of SCTE Standards (list sections of the standard to which patent claims relate)	IP Multicast Controller - Client Interface Specification IP Multicast Controller - Server Interface Specification IP Multicast Server - Client Interface Specification IP Multicast Adaptive Bit Rate Architecture Technical Report Real-time Event Signaling and Management API Mezzanine Encoding Spec Content Encoding Profiles 3.0 Specification
Registration Number(s) - please fill in the form on page 2	

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members and their affiliates, or against any products or services of CableLabs or any products or services of any of CableLabs' members and their affiliates, either alone or in combination with other products or services; and CableLabs retains the right to assert its patents against any product or portion thereof that is not necessary for compliance with the SCTE standard.

Authorized person signing this declaration:

Name (printed) Simon Krauss Title: Deputy General Counsel Organization: Cable Television Laboratories, Inc.

Name (signed) *Simon Krauss* Date: November 16, 2016 Place Louisville CO

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Designations and Titles of SCTE Standards Authentication and Authorization Interface 1.1 Specification (list sections of the standard to which patent claims relate) Authentication and Authorization through Client Apps
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