SCTE•ISBE AWARDED ITS FIRST-EVER PATENT; ADDRESSES ADAPTIVE POWER MANAGEMENT WITHIN BROADBAND NETWORKS

Society's IP Ownership Ensures Applicability and Availability To All Members

DEC. 3, 2018 (Exton, PA)—The Society of Cable Telecommunications Engineers (SCTE) and its global arm, the International Society of Broadband Experts (ISBE), today announced that they have been awarded for the first time a United States patent, which is for SCTE•ISBE's breakthrough technology innovation in the area of transactional energy management.

U.S. Patent No. 10,139,845, "System and Method for Energy Consumption Management in Broadband Telecommunications Networks via Adaptive Power Management," provides a framework for aligning network energy consumption with network usage. This alignment is a key principle of SCTE 216 2015, *Adaptive Power System Interface Specification (APSIS™)*, which was developed in conjunction with SCTE•ISBE's Energy 2020® program.

The award is for the first in a series of patent applications that have been submitted by SCTE•ISBE to ensure technology development that is aligned with the needs of the industry. SCTE•ISBE patent applications are intended to leverage input from operator and vendor members to ensure the broadest applicability within the operator and vendor communities.

"As SCTE•ISBE expands its applied science role to meeting emerging consumer trends and cable telecommunications needs, we believe that the ability to build a portfolio of unique capabilities can be a differentiator for our industry," said Mark Dzuban, president and CEO of SCTE•ISBE. "By securing patents on some key technologies, we can serve as a vendor-neutral source that can guarantee access to the intellectual property for every SCTE•ISBE member."

While Patent No. 10,139,845 addresses more than 20 ways in which it can support Adaptive Power Management, there are four points that are central to achieving the goals of the APSIS standard, namely the ability of the system to control energy consumption in the network:
- Based on such natural and manmade influences as "weather forecasting, storm tracking, major events of high energy usage, rolling brown outs, rolling black outs, real-time network data, outages in other sections of the network, network energy costs, past network performance or any combination thereof";
- Based on information from facility elements, including "heating, ventilation, and air conditioning (HVAC), lighting, security for people and equipment, or the dynamic traffic needs of the network";
- "By coordinating facility energy management system functionality with functionality of the equipment within the network," including individual or combinations of shut-down modes, reduced power modes, and/or sleep modes; and
- By monitoring energy consumption metrics, including "energy consumption over a specified time interval, energy consumption variability, peak to average energy consumption ratio, peak energy consumption, energy availability, cost of energy, or any combination thereof."

"Because 73% to 83% of cable energy usage takes place in hubs and headends, the ability of APSIS to enable transactional energy use is core to cable's ability to meaningfully reduce consumption," said Chris Bastian, senior vice president, Engineering and CTO of SCTE•ISBE. "Our efforts to enable network elements to use little or even no power without impacting service quality are of critical importance from the standpoints of both operators' bottom lines as well as their stewardship of global resources."

Energy 2020 brings together cable operator and vendor expertise to create alignment on standards and operational practices, to drive design and implementation of equipment, and to create SCTE•ISBE training resources that will enable workforce teams to optimize technology for maximum efficiency. More information on Energy 2020 and the SCTE•ISBE Energy Management Program is available at http://www.scte.org/energy/ or by e-mailing energy@scte.org.

The SCTE•ISBE Standards Program is the only ANSI-accredited forum for the development of technical specifications supporting cable telecommunications. Standards work includes: Internet of Things; data and telephony over cable; application platform development; digital video; emergency alert systems; network monitoring systems; cables, connectors, and amplifiers; construction and maintenance practices; energy management; and other areas of interest.

Corporate membership in the program is open to any organization in the cable telecommunications industry. Member organizations develop standards and recommended practices through their technical representatives who serve on committees and subcommittees. The program currently has a long-term outlook of advancing new standards programs such as Internet of Things and energy management over the next several years.

Complete information about the SCTE•ISBE Standards Program—including how to become involved as an SCTE•ISBE Standards Program member—is available in the Standards section of the SCTE•ISBE website at www.scte.org/standards or by e-mailing standards@scte.org.

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About the Society of Cable Telecommunications Engineers (SCTE)
SCTE drives business results for service providers and vendors through technology innovation, standards development and industry-leading training and certification. In partnership with CableLabs® and NCTA, SCTE builds value for corporate and individual members by enabling accelerated delivery of products and services, superior workforce expertise and increased customer satisfaction. SCTE and its global brand, ISBE, annually produce SCTE•ISBE Cable-Tec Expo, the largest cable telecommunications technology, educational and business development event in the Americas. More at www.scte.org.