SCTE·ISBE CABLE-TEC EXPO 2017

DENVER, CO
OCTOBER 17-20

Technical Paper Proposals Must Be Submitted to SCTE/ISBE by Wednesday, March 1, 2017

The Society of Cable Telecommunications Engineers (SCTE), along with its global brand, the International Society of Broadband Experts (ISBE), is seeking proposals for papers and presentations for technical sessions that will be conducted during SCTE/ISBE Cable-Tec Expo® 2017, taking place Tuesday through Friday, October 17–20 in Denver, Colorado. The Expo 2017 Program Committee, co-chaired by Jim Blackley, EVP, Engineering and Information Technology, Charter Communications, and Terry Cordova, EVP, Chief Technology Officer, Altice USA, will review all technical proposals.

The Expo 2017 Program Committee is targeting papers in the following key areas:

- Evolved Network
- Cloud and Virtualization
- Security and Authentication
- Business Services
- Customer Journey
- Future Services and Technologies

Abstracts addressing the specific topics described below within the aforementioned key areas will be given priority:

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Track 1: Evolved Network—Wireline and Wireless
- DOCSIS® 3.1 deployments
- GPON vs EPON: key differentiators, challenges
- Latency, including DOCSIS , xPON, Wi-Fi , 60GHz, LTE and potential 5G technologies; broken down to support lowest potential latency; solutions to improve
- Distributed architectures: benefits and challenges
- Efficiencies in technologies for new build networks
- QAM to IP video transition
- 3.5GHz CBRS band: architectures for Wi-Fi coexistence and aggregation
- Fixed-mobile convergence
- MVNO model continuum: risk/rewards of wireless resale versus owned wireless infrastructure
- Wireless drops: what is the hype and how will it play out?
- Convergence and coexistence of licensed and unlicensed wireless technologies
- Ways of reducing CPE manufacturing costs and how to implement them
- Network capacity augmentation: strategies to meet tomorrow's demand
- Energy savings using best practices

Track 2: Cloud and Virtualization
- Overview of software-defined networking (SDN) and network function virtualization (NFV)
- Practical use of cloud services, VNFs and NFVs as they make things easier to deploy, improve service deployment cadence or are cheaper
- Operational challenges in managing virtualized services
- Software-defined WAN
- Public versus private cloud
- Integration of third party solutions in an open cloud environment
- Wireless network virtualization and slicing: engineering and operational challenges

Track 3: Security and Authentication
- Network security as a service (NSaaS)
- Authentication for legacy infrastructures
- Next generation distributed denial-of-service (DDoS)
- Digital rights management
- Effective threat intelligence and management practices
- Predictive threat analytics
- Internet of Things (IoT) security

Track 4: Business Services
- Business grade SLA services over DOCSIS
- Automated service activation systems and tools for metro Ethernet
- Managed security services
- Cable industry's strategy for increasing Ethernet market share
- Creating a national footprint to offer enterprise-wide services
- Cell backhaul

Track 5: Customer Journey
- Customer-facing proactive network monitoring and alerting
- Empowering the customer to order anything, anywhere, anytime
- Moving an organization to a DevOps model to allow the delivery of services more quickly
- Effective ways to measure satisfaction: NPS or eNPS
- Sales to churn life cycle: ways to optimize and simplify
- Leveraging business intelligence (BI) to optimize operation
- Automation: IVR improvement/customer profile
- Tool development: agent and support tools
- Self-help channels: proactive and reactive
- Customer base management
- Ergonomics of MSO-supplied CPE devices
- MSO-supplied versus BYO devices
- MSO-curated content experience

Track 6: Future Services and Technologies
- Full Duplex DOCSIS 3.1
- Whole Home Coverage: use of next generation Wi-Fi (802.11ac/ax and ad) to provide whole home coverage, seamless and optimal support for multi-media services including HD video distribution and VoIP
- Leveraging existing coax and fiber infrastructure to accelerate into 5G wireless
- Future of video
- Next generation video codecs
- Realizing the potential of the Internet of Things (IoT)
- Smart home and IoT business model
- IoT verticals: telemedicine, remote learning, manufacturing, etc.
- Virtual and augmented reality: services with huge bandwidth requirements for large file downloads and low latency for live transmission. Is there an MSO role in the curation or shaping of this content?
- Home and industrial automation

Items to consider for the above tracks:
- Standards: What are the key cable and industry standards and operational practices needed going forward?
- Learning and development: What training requirements are necessary to support the constantly evolving network services and technologies?
- Financial impact: What key financial criteria should be considered when deciding whether to deploy and scale new technologies?

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While abstracts on the above specific topics will be given priority, other topics addressing current cable industry technical, engineering, and business issues will also be considered.

Enter each SCTE/ISBE Expo 2017 Abstract Submission separately to ([Click Here](#)) by Wednesday, March 1, 2017.

Interested presenters should submit online a one-page abstract (300 words max.) that identifies at least one of the above key areas.

Complete the online submission form in its entirety. This includes speaker bio and photo, submission title, track and type of paper (technical or operational practices) prior to uploading the abstract submission. Previously published papers and product-specific papers and presentations will not be accepted. Abstracts must be tailored for workshop learning and provide real-world examples that attendees can apply to their everyday work. Many unique sessions will be offered again this year with a small number of presenters per session, so that the depth and coverage of technical content can be maximized for optimal learning.

The SCTE/ISBE Cable-Tec Expo® 2017 Program Committee will review abstracts. If submitters do not receive notification by April 14, 2017, contact SCTE/ISBE to verify submission status.

Selected participants will be **required to complete and submit** an electronic version of their **technical paper** and **associated PowerPoint presentation** (for presentation at the event) by **Monday, July 17, 2017**. For general questions regarding the Expo technical workshops or the abstract submission process, please e-mail EXPO_info@scte.org or call SCTE/ISBE's Glenda Calcaterra at 610-594-7323 or 800-542-5040, ext. 7323.

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