

SESSIONS

PRE-CONFERENCE WORKSHOP FOR CABLE OPERATORS ONLY - 12/
03/2019

Cable Next-Gen Technologies &
Strategies

March 12-14, 2019
Embassy Suites Downtown Denver Convention Center
Denver, Colorado

Cable Operator Workshop: Registration Opens

1:00pm - 2:00pm

Cable Operator Workshop: Introduction & Welcome

2:00pm - 2:20pm

Participants

Alan Breznick - Cable/Video Practice Leader, Light Reading

Cable Operator Workshop: The Adaptive Network Imperative & Intelligent Automation

2:20pm - 2:40pm

This introductory session will discuss why cable MSOs need a network that can adapt.

Participants

Chip Redden - Adaptive Network, Ciena

Cable Operator Workshop Keynote: Embracing an Adaptive Strategy

2:40pm - 3:00pm

This keynote will discuss how the cable industry is moving toward networks that can readily adapt to change.

Participants

Jeff Finkelstein - Executive Director of Advanced Technologies, Cox Communications

Cable Operator Workshop Research Presentation: Cable Industry Insights

3:00pm - 3:20pm

Speakers will share exclusive new research on how the cable industry views and is moving toward networks that can adapt.

Participants

David Strauss - Principal, Broadband Success Partners

Cable Operator Workshop Networking Coffee Break

3:20pm - 3:35pm

Cable Operator Workshop Keynote: 5G Insights from MWC 2019

3:35pm - 3:55pm

Participants

Speaker: Tim Burke - Vice President, Strategic Technology, Liberty Global

Cable Operator Workshop: Fireside Chat

3:55pm - 4:10pm

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

Cable Operator Workshop Industry Keynote: Cable Industry Initiatives

4:10pm - 4:30pm

This keynote will cover Proactive Network Maintenance (PNM) for coherent optics in cable networks.

Participants

Alberto Campos - Fellow, CableLabs

Cable Operator Workshop Panel: Fiber Deep and the Need for Adaptive Networks

4:30pm - 5:00pm

Panelists will discuss the need for networks that can readily adapt to change as cable MSOs pursue Distributed Access Architectures (DAA), extend Digital Fiber Nodes (DFNs) closer to the end-user, and virtualize functions traditionally done in the headend.

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

Panelist: Kjeld Balmer - Head of Network Technology, Stofa

Jon Schnoor - Lead Engineer, Wired Technologies, CableLabs

Panelist: Shane Portfolio - Senior Vice President of Technical Operations and Engineering, Comcast

Panelist: Fernando Villarruel - Chief Architect, MSO Practice, Ciena

Cable Operator Workshop Cocktail Reception

5:00pm - 6:00pm

An exclusive networking reception for cable operator/MSO participants of the pre-conference workshop only. Network with workshop speakers and participants while sampling local craft beer. Learn about Ciena's Blue Planet portfolio and Fiber Deep solution.

Cable Operator Workshop Dinner

6:00pm - 8:00pm

An exclusive networking dinner for cable operator/MSO participants of the pre-conference workshop.

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REGISTRATION OPENS

7:00am - 7:45am

SPECIAL BREAKFAST SESSION: PROFITING FROM THE IN-HOME WI-FI CHALLENGE: STRATEGIES AND SOLUTIONS

7:45am - 8:45am

Today, the Connected Home is a reality with homes averaging nearly 10+ devices connected to in-home Wi-Fi, which is expected to grow to over 20 connected devices per home by 2021. Even as MSOs expand Gigabit rollouts with DOCSIS 3.1, they have realized that Wi-Fi connectivity issues lead to a poor Gigabit experience, which in turn can result in unsatisfied subscribers and churn. In-home Wi-Fi is the leading cause of tech support calls, costing the Cable industry over \$1 billion annually in troubleshooting residential Wi-Fi. So how can MSOs get better insight into the black hole that is in-home Wi-Fi? How can they improve the customer's experience and deliver a simple, intuitive service? Our expert panelists will discuss industry initiatives, solutions and strategies to help MSOs turn the Wi-Fi pain into a profit.

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

Panelist: Jeffrey De Sarno - Chief Technology Officer, Westman Communications

Panelist: Josh Redmore - Lead Architect, Wireless Research and Development, CableLabs

Panelist: Tom Williams - VP, Engineering and Technology, Schurz Communications

Panelist: Justin Wolf - Director of Software Product Development, ADTRAN

INTRODUCTION: CAN CABLE BEAT 5G WITH 10G?

9:00am - 9:15am

With DOCSIS 3.1 rollouts unfolding, fiber buildouts accelerating and Distributed Access Architecture deployments beginning, North American cable operators are upgrading their networks for multi-gigabit broadband speeds, cloud-based IP video services and next-gen wireless services like 5G and CBRS. They are making these moves to keep up with aggressive, fiber-rich rivals like AT&T, Verizon and T-Mobile. But, with their HFC networks under mounting bandwidth pressure and 5G wireless technology coming right around the corner, cablecos face stiff new competitive and technological challenges. In this overview, we will set the competitive context for cable's latest tech initiatives.

Participants

Speaker: Alan Breznick - Cable/Video Practice Leader, Light Reading

KEYNOTE: CABLELABS TALKS 10G

9:15am - 9:35am

Participants

Phil McKinney - President & CEO, CableLabs

DIAMOND SPONSOR KEYNOTE: NETSCOUT

9:35am - 9:55am

Participants

Jeff Templeton - Sales Engineering Director, NetScout

PANEL: DOCSIS 3.1 LESSONS: BRINGING GIG SPEEDS HOME

9:55am - 10:45am

Now that they have deployed DOCSIS 3.1 and more fiber to much of the continent, North American cable operators are staking their claim in the gigabit market with the capacity to offer blazing speeds of up to 10 G/ bits down and at least 1 Gbit/s up. But as they do, they are running into a fresh set of challenges, especially in the home WiFi environment. How are cablecos and their vendor partners managing their new gigabit services and making sure that customers get what they're promised? How can cablecos tame the home networking monster? In this opening panel, our experts will discuss the early deployment lessons from the field.

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

Panelist: Kinney Bacon - Principal Engineer, Premises Technology, Cox Communications

Panelist: Adam Hotchkiss - Co-founder & Vice President, Product, Plume

Panelist: Jon Pederson - Chief Technology Officer, Midco

Panelist: Chandra Viswanathan - Senior Director of Home Wi-Fi, Intel

Panelist: Steve Williams - VP, DOCSIS, Charter Communications

COFFEE BREAK

10:45am - 11:05am

PANEL: WELCOME TO 10G: WHY DOCSIS MAY NEVER DIE

11:05am - 11:55am

While cablecos are still wrapping up their DOCSIS 3.1 rollouts, industry technologists are looking to the future with the new Full Duplex DOCSIS 3.1 spec designed to enable the delivery of symmetrical speeds as high as 10 Gbps over the same spectrum. In addition, cable engineers are weighing a potential "Extended Spectrum DOCSIS" spec that would support symmetrical speeds of 30 Gbps or more as they keep rolling out more fiber. Yet both initiatives, which require deep fiber builds and more RF spectrum, raise key technical, operational and financial issues. How long can cable keep riding the DOCSIS train? Won't PON over fiber lines sooner or later take its place? Our experts will tackle the issues.

Participants

Moderator: Jeff Baumgartner - Senior Editor, Light Reading

Panelist: Tom Cloonan - Chief Technology Officer for System Architecture, ARRIS

Panelist: Jeff Finkelstein - Executive Director of Advanced Technologies, Cox Communications

Panelist: Rob Flask - Head of Product Line Management - Cable Instrument Solutions, Viavi Solutions

Panelist: Neil Tang - President, Antronix

Panelist: JR Walden - CTO & SVP, Mediacom Communications

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PANEL: DIALING UP THE MOBILE FUTURE

11:55am - 12:45pm

Although they've been burned several times before, cable operators are plunging back into the wireless space with abandon. Comcast and Charter are teaming with Verizon to offer mobile service, while Altice USA is launching service with Sprint. In addition, Charter has already launched field trials of 5G small cells with Samsung. At the same time, Comcast, Charter and Altice are now running tech trials and/or planning commercial deployments in the newly available Citizens Broadband Radio Service (CBRS) band. What are cable's prospects for these MVNO, CBRS and other ventures? What will 5G mean for cable? Our experts will delve into the mobile rewards and risks for the cable industry.

Participants

Moderator: Mike Dano - Editorial Director, 5G & Mobile Strategies, Light Reading

Panelist: Jon Baldry - Director, Metro Marketing, Infinera

Panelist: Tim Burke - Vice President, Strategic Technology, Liberty Global

Panelist: Bob Ewald - Senior Vice President of Business Development, Arterra

Panelist: Ian Hood - Chief Technologist, Global Service Providers, Red Hat

Panelist: Piyush Raj - Chair, Deployment and Operations Working Group, CBRS Alliance

LUNCH, NETWORKING & TABLETOP DISPLAYS

12:45pm - 2:00pm

FIRESIDE CHAT: SLING TV

2:00pm - 2:20pm

In this fireside chat, Jimshade Chaudhari will offer a unique perspective on pay-TV's prospects and potential pitfalls.

Participants

Speaker: Jimshade Chaudhari - Vice President, Product Management, Sling TV

Moderator: Jeff Baumgartner - Senior Editor, Light Reading

PANEL: THE NEW VIDEO PLAYBOOK

2:20pm - 3:10pm

With traditional pay-TV programmers like HBO, Disney and Viacom now going direct-to-home and major OTT video services like Netflix, Hulu and Amazon Video increasingly signing distribution deals with legacy pay-TV providers, the video world has turned upside down. As cord-cutting continues to climb and OTT video carves out a bigger slice of the pay-TV pie, how can service providers cope? Is the traditional TV set-top box headed for extinction? How can all these new video services be delivered securely? This panel will look at where the pay-TV market is heading, what options are available for cable operators wishing to stay in the video game and what challenges must be overcome.

Participants

Moderator: Craig Leddy - Contributing Analyst, Heavy Reading

Panelist: Cash Hagen - Chief Operating Officer, Evolution Digital

Panelist: Colin Howlett - Vice President, Architecture, Vecima

Panelist: Jeff Templeton - Sales Engineering Director, NetScout

Panelist: Mitchell Weinraub - Director, Product Development / Director of Advanced Video Products, AirTV L.L.C / Dish Network

CABLE OPERATOR KEYNOTE: MACHINEQ

3:10pm - 3:25pm

Participants

John Jason Brzozowski - Fellow, machineQ -- A Comcast Service

COFFEE BREAK & TABLETOP DISPLAYS

3:25pm - 3:40pm

PANEL: LIGHTING UP COHERENT OPTICS

3:40pm - 4:25pm

While not exactly based on new technology, two new coherent optics specs have been crafted by CableLabs that will enable cable operators to vastly increase the amount of data they can shoot over HFC lines, deliver higher bit-rates and improve the optical performance of their fiber links without overhauling their plant. With cablecos coping with surging consumption of streaming video and ever-growing demand for bandwidth, point-to-point coherent optics offers a potentially powerful and efficient way to squeeze more juice out of installed fiber and ease the mounting capacity loads. But just how easily can P2P coherent optics be implemented? What will it take to make it scalable? This panel will focus on coherent optics' potential, as well as the hurdles that must be overcome to make it a reality.

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

Panelist: Uffe Callesen - Lead Architect, Stofa

Panelist: Shawn Esser - Director of Product Management, Finisar

Panelist: Chris Gosnell - Senior Manager of MSO Sales Engineering, Ciena

Panelist: Alberto Campos - Fellow, CableLabs

Dean Stoneback - Senior Director of Engineering and Standards, SCTE-ISBE

FIRESIDE CHAT: TRANSFORMING THE CABLE NETWORK INFRASTRUCTURE

4:25pm - 4:45pm

Participants

Speaker: Randy Levensalor - Leading Member, Network Virtualization Team, CableLabs

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

HOW CABLE CAN STAY WOKE: A MILLENNIAL VIEW

4:45pm - 5:25pm

For the past dozen years, the Rocky Mountain Cable Association (RMCA) and the University of Denver's Daniels College of Business have partnered to run a Cable Apprentice Competition for graduate students. Working in teams of three and competing for a cash prize of \$4,500, these MBA students craft proposed products, services or strategies to help the cable industry boost its image and revenues. Two finalist teams in this year's competition will present their ideas and then attendees will vote on their favorite.

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

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**NETWORKING RECEPTION & TABLETOP
DISPLAYS**

5:25pm - 6:30pm

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8:00AM	
9:00AM	9:00am - INTRODUCTION: CAN CABLE BEAT 5G WITH 10G? 9:15am - KEYNOTE: CABLELABS TALKS 10G 9:35am - DIAMOND SPONSOR KEYNOTE: NETSCOUT 9:55am - PANEL: DOCSIS 3.1 LESSONS: BRINGING GIG SPEEDS HOME
10:00AM	10:45am - COFFEE BREAK
11:00AM	11:05am - PANEL: WELCOME TO 10G: WHY DOCSIS MAY NEVER DIE 11:55am - PANEL: DIALING UP THE MOBILE FUTURE
12:00PM	12:45pm - LUNCH, NETWORKING & TABLETOP DISPLAYS
1:00PM	
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3:00PM	3:10pm - CABLE OPERATOR KEYNOTE: MACHINEQ 3:25pm - COFFEE BREAK & TABLETOP DISPLAYS 3:40pm - PANEL: LIGHTING UP COHERENT OPTICS
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5:00PM	5:25pm - NETWORKING RECEPTION & TABLETOP DISPLAYS

SESSIONS

DAY TWO - 14/03/2019

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REGISTRATION OPENS

7:00am - 7:45am

SPECIAL BREAKFAST SESSION: DIGITAL TRANSFORMATION -- THE NEW IMPERATIVES FOR OPERATORS

7:45am - 8:45am

In this period of enormous change, where the \$300 billion industry is facing unprecedented headwinds from Over-The-Top (OTT) competitors, can pay TV industry respond in a way that changes the direction of consumer behavior in their favor? During this breakfast session, Clayton Wagar speaks with Alan Breznick about how operators can take advantage of a virtuous cycle in which customer activity, value, motivation and adoption sits at the core. What you will gain from this session: a new perspective on pay TV!

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

Panelist: Jason Hansen - Chief Technology Officer, Conway Corp.

Panelist: Loren King - Video Product Manager, Fidelity Communications

Panelist: Clayton Wagar - Vice President, Technical Sales, Espial

Panelist: Tom Williams - VP, Engineering and Technology, Schurz Communications

CABLE OPERATOR KEYNOTE: COM HEM

9:00am - 9:20am

Participants

Rasmus Aveskog - Chief Architect, Com Hem

ACCESS OUTLOOK: FORECASTS FOR THE CABLE ACCESS MARKET

9:20am - 9:40am

Participants

Jeff Heynen - Research Director, Dell'Oro Group

Jaimie Lenderman - Senior Analyst, Ovum

PANEL: CABLE'S LAST MILE: GETTING DOWN WITH DAA

9:40am - 10:30am

Following years of tech trials and pilots, cable operators are starting to deploy distributed access architecture (DAA) options for shifting legacy headend functions to the access network and expanding the capacity of that network for new, more advanced services. At the same time, many operators are looking to upgrade and standardize the lowly fiber-optic node under an SCTE program called GAP (for Generic Access Platform) so that module components can easily be snapped into place like Legos. But not all players are on board yet. In this session, cable technologists will discuss the proposed GAP initiative and their latest Remote PHY, Remote MAC/PHY and other DAA moves, as well as address the impact that DOCSIS 3.1, Fiber Deep, 10G EPON, 5G and other new technologies will have on the last mile of tomorrow.

Participants

Moderator: Jeff Baumgartner - Senior Editor, Light Reading

Panelist: Anders Bloom - Senior Systems Manager Broadband, HFC Development, Com Hem

John Chapman - Cisco Fellow and CTO, Cable Access Business, Cisco

Panelist: David Hering - Sr. Product Line Manager, Viavi

Panelist: Hanno Narjus - Senior Vice President, Network Products, Teleste Intercept

Panelist: Fernando Villarruel - Chief Architect, MSO Practice, Ciena

SUPER PLATINUM KEYNOTE: CISCO

10:30am - 10:45am

Participants

John Chapman - Cisco Fellow and CTO, Cable Access Business, Cisco

COFFEE BREAK & TABLETOP DISPLAYS

10:45am - 11:00am

RESEARCH PRESENTATION: FIBER BROADBAND ASSOCIATION

11:00am - 11:15am

Participants

Gary Bolton - Treasurer, Board of Directors, Policy Committee Chair, Fiber Broadband Association

PANEL: FIBER'S FABULOUS FUTURE

11:15am - 12:05pm

Although top cable technologists insist that the industry's HFC pipes still have plenty of juice left in them, most cable operators are scrambling to install more fiber in their networks. Whether they're going all-fiber like Altice, embracing Fiber Deep like Comcast and Cox or just splitting more optical nodes, cablecos are rolling out more fiber to offer more bandwidth, deliver new services, improve performance and slash operating costs. In this session, we'll look at cable's growing fiber diet, the more advanced services that fiber can deliver, the new PON technologies operators can tap and the challenges involved in upgrading the HFC plant.

Participants

Moderator: Mari Silbey - Director of Communications, US Ignite

Panelist: Kjeld Balmer - Head of Network Technology, Stofa

Panelist: Doug Blue - Solutions Marketing Director, Calix

Panelist: Kevin Bourg - Optical Network Architect, Corning

Panelist: Stephen Colangelo - Business Development Manager, Viavi Solutions

Panelist: Ragu Masilamany - Vice President, Products, Incognito

SUPER PLATINUM KEYNOTE: INFINERA

12:05pm - 12:20pm

Participants

Jon Baldry - Director, Metro Marketing, Infinera

LUNCH, NETWORKING & TABLETOP DISPLAYS

12:20pm - 1:20pm

ANALYST PRESENTATION: REALITY CHECK: WHAT DO CONSUMER'S WANT?

1:20pm - 1:40pm

Participants

Brett Sappington - Senior Director of Research, Parks Associates

Kamalini Ganguly - Senior Analyst, Ovum

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FIRESIDE CHAT: MAKING SMART CITIES SMARTER

1:40pm - 2:00pm

Participants

Speaker: Satya Parimi - Group Vice President, Data and Cloud Products, Spectrum Enterprise

Speaker: Mari Silbey - Director of Communications, US Ignite

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

PANEL: CABLE MOVES TO THE CLOUD

2:00pm - 2:50pm

Despite a relatively late start, the cable industry is now moving ahead in the software-defined networking (SDN) and network function virtualization (NFV) space, even leading the way in such areas as the virtualization of its access networks. But, while cablecos are starting to virtualize such key network functions and hardware as firewalls, routers, set-top boxes and even CMTS chassis and are increasingly baking more software capabilities into their architectures, they are still a long way from having full, cloud-based platforms. In this panel, we'll look at where cable stands in its cloud journey, which challenges must be overcome and what comes next.

Participants

Moderator: Alan Breznick - Cable/Video Practice Leader, Light Reading

Panelist: Ragu Masilamany - Vice President, Products, Incognito

Panelist: Krithika Moorti - GM Cable and Fixed Broadband Access, Intel

Panelist: Jeff Templeton - Sales Engineering Director, NetScout

Panelist: Sean Welch - Vice President/General Manager, Cable Access – Service Provider Business, Cisco

KEYNOTE: LIGHT FIELD ECOSYSTEM: PREPARING FOR THE NEAR FUTURE

2:50pm - 3:10pm

Arianne Hinds, Principal Architect and Futurist, CableLabs presents on light field displays and immersive experiences, and the implications for cable.

Participants

Speaker: Arianne Hinds - Principal Architect and Futurist, CableLabs

PANEL: MONETIZING NEXT-GEN BUSINESS SERVICES

3:10pm - 4:00pm

Building on the broad success of Ethernet technology, new, more advanced services are quickly gaining traction in the commercial market. Led by the various flavors of SD-WAN, the list includes managed security, video monitoring and surveillance, wireless WAN backup, industrial IoT, cloud-based services, on-demand services, application-specific bandwidth and more. But what's the business model for these new services? Can they generate healthy profits or will they end just being loss leaders? Our team of experts will assess.

Participants

Moderator: Craig Leddy - Contributing Analyst, Heavy Reading

Panelist: Marcio Avillez - Senior Vice President of Business Development, CUJO AI

Panelist: Jody Hagemann - Director of Product Management, Comcast Business

Panelist: Lakshmi Kandadai - Director, Product Marketing, Palo Alto Networks

Panelist: Jen Shelby - Vice President, Product Strategy, Kyrio

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