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March 2012 Newsletter



The Spectrum

Newsletter of the Rocky Mountain Chapter

<http://www.scte-rockymountain.org>

March 2012

Featured articles: Jorge Salinger

Technical Forum: Access network options for deploying IP Video

****Permission to reprint from Broadband Library and Jorge Salinger

Seminar Review

Commercial Services, installation and Applications

Denver, CO. February 23, 2012

41 attendees / 4 speakers

During the Rocky Mountain Chapter's Board of Director's meeting in January 2011 Strategic Planning, Commercial Services as a topic resurfaced, because although it is a trained installers into commercial environments and expect them to succeed, thus providing training under this topic was way over-due.

The Rocky Mountain Chapter hosted a training seminar that focused not only on the commercial applications being deployed by several MSO's, but also commercial installation aspects of the commercial environment including personal behavior, competition, best installation practices, data, phone and video applications, skillfully combined and into commercial services.

The presentations were staggered so that the audience was never lulled by any one topic. **Neil Serafin**, BroadbandInstructor.com, was our first presenter and spoke to commercial Engineer for Comcast, spoke next on Metro Ethernet, commercial data and phone products being deployed by Comcast. **Tom Chiang**, CB Video Product Manager, Charter Director, Technical Operations Comcast Business Services presented on best practices for installation of cable's commercial products within the commercial environment.

The experience and diversity of our speakers kept the audience engaged through their comments and ability to completely answer questions concerning their topics.

The Charter Communications tiered-seating training room fostered two-way interaction and supported a well-received venue.

Notice!

A recording of the SCTE Live Learning webinar "**Next Generation Cable Access Network: An Examination of the Drivers, Network Options, and Migration Strategies**" the presentation, as well as previous SCTE Live Learning webinars, by logging in to the [SCTE Live Learning Archives](#). You'll find the recording under the heading "HFC

Don't miss any of the upcoming Live Learning webinars; register once for the series and then you don't need to register for each event. [Register for the SCTE Live Learning](#)

2012 Live Learning Series - Upcoming Topics

Mar. 21, 2012: Industry Trends in MSO Metro Access

Apr 18, 2012: Business Services

Mark your calendars and get ready for Sym

The Rocky Mountain Chapter is planning for an even bigger and better symposium this year:

ANNUAL CABLE-TEC SYMPOSIUM and C

June 12th and 13th, 2012
Inverness Hotel and Golf Club
200 Inverness Drive South
Englewood, CO 80112

As you all know, the Rocky Mountain SCTE Symposium has sold out for the last 11 years. We want to thank all of our vendors for your past participation in our events. We But wait there's more! We have been listening to our Symposium participants on what we can do to improve our event. We will once again offer great technical sessions. We upgraded the connectivity within the exhibit space.

This year we are encouraging all exhibit participants to consider providing technical demonstrations of their products. The exhibit space will have access to high speed data presentations and technical demonstrations, compelling more visitations to the symposium from MSO leadership and team members. Providing technical demonstrations an

All of these activities are intended to increase visitation and provide a better experience for our operator and vendor participants.

Please take the time to mark your calendar for the best SCTE Symposium and Cable Tec Games and start thinking about how providing your technology, using a live conne

Should you have questions concerning Rocky Mountain Chapter's 2012 Symposium, please contact Frank Wimler at 303.323.1380 or e-mail at frank.wimler@chartercom.c

Thank you,

Frank Wimler
SCTE Rocky Mountain Chapter

<http://www.scte-rockymountain.org/>

2012 Chapter Events v1

Pre-seminar openers (10 to 15 minutes) are planned before each event and subjects will include:

<i>Telecom Industry current Events</i>	<i>Professional Development, Benefits of Certification</i>	<i>Take-a-ways "Getting that one thing out of this seminar"</i>
<i>Membership benefits</i>	<i>Safety tie-in to seminar topic</i>	<i>Scholarship opportunities</i>

Date	Location	Subject	Speaker
February 23, 2012	Charter Communications Greenwood Village, CO	Business Services	Rob Agnew – Comcast Tom Chiag – Charter Derek Herider – Comcast Neil Serafin - Cabtel
April 12th	CableLabs	DOCSIS 3.0; IPV6	Dan Torbet – Arris Jaime Zabala Sr. - Cicso
May 3rd	Iliff or Arapahoe Community College	AC/DC Basics; What is Ohm? (It's not Meditation) IP Basics/Future State	Ron Hranac
June 12th/13th	Inverness Hotel & Golf Club – Englewood, VCO	CCAP	TBD
July 19th	Charter Communications	Smart TV IPTV/CDN/ Advanced CPE	TBD

September A/B A – 9/11 B- 9/13	(A) New Mexico - Albuquerque (B) Denver University – or Arapaho Community College	A. Digital Test Measurements B. Home Security Automation	Al Silva
October 25th	Cable Labs	Whole Home Wireless/ MOCA	TBD
January 2013 (17 th ??)	Iliff	Working in an All-Digital World	Ron Hranac
TBD	2 – Webinars (Only)	1. Fiber Based Services 2. Metro E	TBD

Technical Forum



Jorge Salinger, Comcast Cable

VP, Access Architecture

Access network options for deploying IP

While the approach of using DOCSIS by-pass has been implemented in a few instances, most MSOs moving forward with, or considering, deployment of IP video are doing

The advent of lower cost DOCSIS headend gear in recent years, especially moving forward with the advent of the Converged Cable Access Platform, and its technical advantages achieved with other methods, such as benefiting from Variable Bit Rate gains (up to a 70% gain vs. Constant Bit Rate), use of Advanced Video CODECs (~50% gain of MI availability of development talent.

But, this approach will require additional capacity on the network. This is especially true if the deployment of these advanced IP video services results in additional simultaneous video services could be especially impacting since these are likely to require more unicast transmission than legacy services currently do.

While initial target for most MSOs are second-screen, customer-owned devices, such as PCs, tablets, game consoles, etc., which generally require lower-resolution, these will

Generally speaking, capacity can be made available in 2 ways: freeing up existing capacity, or making additional capacity available.

To free up existing capacity MSOs have deployed tools such as Switched Digital Video (SDV) for digital broadcast, Digital Terminal Adapters (DTAs) for analog services, (watched by at least one subscriber) is only distributed when at least one subscriber is requesting it. This approach allows for the reduction in access network capacity needed for analog programs in the network, and instead replace the same services using digital video. This is not only much more efficient use of access network capacity, but offers benefits for IP video services if additional legacy services are not deployed. However, given the number of legacy set-tops already deployed, MSOs are likely to continue deploying legacy

Making additional capacity available is, generally speaking, more complex than reclaiming capacity. For example, capacity in 750 MHz Hybrid Fiber Coax networks, which is not as large as what can be obtained with SDV and/or DTAs, and is operationally more impactful to subscribers. Expanding capacity beyond that, to 1 GHz for example

A third approach is starting to surface as an equally, or perhaps more, viable option. In this approach services are gradually shifted from legacy to IP video. For example, an analog service with IP video capable set-tops, after which the service or tier can be shifted from legacy to IP video. While this approach might take longer to execute than the other approaches

Undoubtedly some MSOs will prefer different approaches than others. Time will tell which approaches become more broadly utilized by MSOs.

Scholarship Opportunity

In these hard times job loss is collateral damage to the effects of the credit, housing, and energy issues affecting our country. The Rocky Mountain Chapter is proactively through a scholarship program we can assist members wanting to differentiate themselves from their peers through education and certification.

Why does the RMC support a Scholarship Program for its Members?

We make it easy on our members to enroll, test, and certify for SCTE certifications covering a wide range of job classifications and skills. Certificates range from residential to commercial. For more details, visit [opportunities/chapter-scholarship](#) to get more details. Our scholarship application should take you less than 15 minutes to complete and you'll just need to add two letters of recommendation.

Why should I certify with the SCTE?

The SCTE is the leading source of certification specific to our industry. There are over 15,000 worldwide members and more than 3,000 members enrolled in SCTE certifi

In this competitive job market any edge you can give yourself will help you rise above the masses when being considered for a promotion or a new job. Believe me when I : industry.

However, there are large numbers of people out there looking for job that have time and work experience on their side. Unemployment is regular and competition more fier demonstrate your commitment to expanding your work knowledge and skills. Otherwise your resume looks just like the two dozen other ones sitting on a hiring manager's

College classes are another avenue for motivated individuals. A college degree is a fantastic goal and the SCTE Foundation has funds available for grant to help you here as other constraints are endless. SCTE certification allows you to simply test at a local seminar after home studying for as long as you wish. There is no set class schedule or d advance and demonstrate their knowledge. **The Rocky Mountain Scholarship program covers membership cost, testing fees, and peer recognition. The details of how**

2012 Elected Board of Directors	
Name	email
Dave Krook	David_Krook@cable.comcast.com
Frank Wimler	Frank_Wimler@Chartercom.com
Idilio Moncivais	Idilio@unisondev.com
Jorge Salinger	Jorge_Salinger@cable.comcast.com
Lane Johnson	Ljohnson@cablelabs.com
Nick Segura	Nick_Segura@chartercom.com
Rex Kohart	Rex_Kohart@cable.comcast.com
Stephanie Trotter	stephanie.trotter@twcable.com
Steve Murphy	Steve_Murphy@cable.comcast.com
Tom Gorman	FlashGorman@comcast.net

Supporting Associate Board Members 2012

Definition: Somebody who supports the functions of the local chapter by participating in meetings provides input that helps drive board decisions, volunteers, speaks suppo

Name	email	
Dave Robinson	d Robinson@ipitresources.com	IPIT
James Baron	James_Baron@chartercom.com	Cha
Joe O'Fallon	Joe.OFallon@lineagepower.com	Line
Joe Thomas	jthomas@infinera.com	Infir
Kevin Bland	Kevin.Bland@chartercom.com	Cha
Maria Popo	maria.popo@ubeeinteractive.com	Ube
Mark Thompson	thompson@commscope.com	Con
Neil Serafin	neil@cabtel.com	Cab
Richard Covell	rgcovell@msn.com	TTS
Rex Gerhardt	rgerhardt@terabitcomm.com	Tera
Ron Hranac	rhranac@cisco.com	Cisc
Robert Kostelny	rob.kostelny@comcast.net	
Steve Snider	stephen_snider@cable.comcast.com	Con
Phillip Yang	Phillip_yang@cable.comcast.com	Corr