

Topic Descriptions

Planning For The Future --- The presentation will be a question and answer format. It will cover everything from setting up an emergency fund, funding your employer-sponsored plans and college funding to estate planning and life insurance. The goal of the presentation is to give you a better sense of where you are now and what you need to consider for the future.

POTS to Packets --- Tutorial: Telephony Overview and evolution to IP Communications; Great overview for new technicians, veteran technicians, general managers, and board members.

Fiber Specifications for Future Network Builds --- As we have built FTTx projects in the Dakota's, we have heard terms such as PE-90, G.652, and G.657 specifications but what do these specifications really mean? And as we see longer and longer routes in stimulus projects, we are seeing requests for a NZDF (Nonzero Dispersion Fiber) glass meeting G.655 and G.656 specifications. What does this really mean and what impact will this have on fiber splicing?

Video Security --- The oil boom, smart grid, border security... no matter the particular reason, video surveillance is becoming a new area of focus for many in our industry. This session will explore the basics of analog and digital video surveillance, from cameras and lenses to video recorders.

Quality of Services, Hierarchical Quality of Services and Queues in an Service Providers (SP) Environment --- Packet Transport and Switching: Advanced Quality of Service for Service Providers

Options for In-Home Data Transport --- The presentation covers the four primary methods of connecting devices within the home. (Wired, Wireless, HPNA and MoCa) Hear the pros and cons of each, trends in the market driving connectivity, as well as the various manufacturers in the market.

Metro Ethernet Testing --- The fundamentals of metro Ethernet are critical to understanding the proper testing process. We will walk through those fundamentals as well as an in depth overview of current and future testing processes/requirements.

DSL Fundamentals --- No matter how you transport your services you have to know the basics. We will discuss how DSL works and explore the common carrier problems as well as how to test to identify those problems.

Fiber Management --- An in depth look at proper handling, routing and installation of fiber jumpers in CO and OSP applications. We will also be covering the fiber management basics of Accessibility, Bend Radius Protection, Physical Fiber Protection, Route Diversity, Density and Scalability. Best practices for fiber management to reduce network outages will also be discussed.

Cloud Computing --- The cloud: what is it and what options does it provide for your Telco.

Transition of PSTN to IP --- Transitioning your PSTN to IP, Future decisions for your Telco.

Telco 2.0 – Reinventing the Service Provider --- As broadband becomes increasingly ubiquitous, and multimedia content and applications proliferate, consumers and service providers alike are presented with new challenges and opportunities in terms of media consumption, network management, and broadband marketing. This new landscape requires the service provider to fundamentally alter their traditional mind-set, and to adopt new and different approaches to running their business. Central to this shift is how the communications service provider will interact with their rapidly evolving subscriber base. This discussion will address both tactics and strategy for successfully competing in this new environment and positioning yourself to win, by reinventing your approach to the broadband marketplace and establishing your company as the most relevant option in the eyes of your subscribers.

Wireless Backhaul: Stringent SLA's Cause Stress on the Carrier Backbone --- The rapid adoption of Smartphone deployments, by wireless carriers, has led to dramatic stress on service provider's backbone networks. As wireless carriers convert to Carrier Ethernet Services, the stringent Service Level Agreements (SLA) are causing service providers to upgrade their capacity and OA&M capabilities. DCN will review SLA requirements of three major wireless carriers.

"The Cloud" has a Silver Lining: Becoming the Service Provider of the Future --- The world is producing and storing digital information at an accelerating rate ... yet the world's appetite for accessing and consuming this content is accelerating even faster. Connecting content and consumers, broadband service providers are uniquely poised to capitalize from these megatrends, yet to do so they need to transform their networks, their operations, and their business. This presentation will take a close look at this emerging world, and show how service providers can leverage their strategic position to find opportunity and success in the future.

Overview of FCC's USF & ICC Reform Order Since the FCC released the ICC/USF Report and Order and Further Notice of Proposed Rulemaking, many telephone companies are wondering how best to position themselves for the new regulatory changes. Join us for a brief overview of the order as well as a discussion on upcoming changes to the existing support mechanisms and corresponding key timeframes.



February 14-16, 2012

Telecom Training & Safety Conference & Showcase

(Formerly known as the Telecommunications AT&S Conference)

Happy New Year!

The directors and staff of **Telecom Training & Safety** would like to invite your company to our Telecom Training & Safety Conference and Showcase. Despite the name change, there has been no change in the format and we will be providing the same services and hope to continue building our relationship with you.

The conference and showcase is scheduled for Tuesday, February 14 through Thursday, February 16, 2012, at the Ramkota Inn, 800 South 3rd Street, Bismarck, North Dakota.

On Tuesday, February 14, the general session is scheduled to begin at 1:00 p.m. in the Missouri Ballroom (downstairs). Breakout sessions are scheduled for Wednesday, February 15, beginning at 8:30 a.m. and ending at 3:45 p.m. The general session will reconvene on Thursday, February 16 at 8:30 a.m. A full complement of industry technology will be addressed along with topics of interest to non-technical people. See the enclosed agenda.

Industry suppliers will be hosting a welcome reception, Tuesday, February 14 at 4:00 p.m. in the Grand Pacific/Patterson/Lamborn Room. Exhibits will be set up for you to view during the welcome reception on Tuesday and social hour on Wednesday.

On Wednesday, February 15, we have scheduled a continental breakfast at 7:30 a.m. in the Courtyard and a award luncheon at noon in the Courtyard. A social hour will be held at 4:30 p.m. in the Grand Pacific/Patterson/Lamborn Room. We invite you and your spouse or guest to join us.

We look forward to a well-attended conference!

Registration Information

Registration includes admittance into all educational sessions, the welcome reception, continental breakfast, vendor displays and social hour.

Registration fees are:

Members

\$120 by January 20, 2012
\$125 after January 20, 2012

Non-Members

\$180 by January 20, 2012
\$185 after January 22, 2012

Telecom Training & Safety Board Members & Guests

Complimentary

Please register by completing the enclosed registration form and return it to Telecom Training & Safety, 1615 Capitol Way, Suite 204, Bismarck, ND 58501.

Educational Session

General sessions are scheduled for Tuesday and Thursday. On Wednesday twelve breakout sessions will be held in the morning and some are repeated in the afternoon for your convenience. A full complement of industry technology will be addressed along with topics of interest to non-technical people.

Awards Luncheon

Wednesday, February 16, 2011 -12:00 p.m. in the Courtyard. Member company employees will be recognized for Educational, Apprenticeship, Certification, and Safe Driving awards.

Exhibitor Hours

Tuesday, February 14, 2012 - 3:30 – 7:00 p.m.

Wednesday, February 15, 2012 – 3:30 – 7:00 p.m.

Motel Accommodations

A block of rooms have been reserved at the Ramkota Inn, 701.258.7700. We ask that you please make your own reservations and state that you are attending the TT&S Conference.

Questions

If you have questions, please contact Tammy Heck, Program Administrator at 701.250.7911 or email tammyh@telecomtrainingsafety.com.

Tuesday, February 14, 2012

8:00 a m - 4:00 p m	Registration (Coat Room)			
1:00 p m - 1:15 p m	Missouri Room - Downstairs	Opening & Welcome		
1:15 p m - 2:30 p m		Planning For the Future - James Braun, Investment Centers		
2:30 p m - 2:45 p m		Break		
2:45 p m - 3:45 p m		POTS to Packets - Todd Murphy, Cisco		
3:30 p m - 7:00 p m		Exhibits Open & Welcome Reception		

Wednesday, February 15, 2012

7:30 a m - 4:00 p m	Registration (Coat Room)			
7:30 a m - 8:30 a m	Continental Breakfast (Courtyard)			
	Heart Room	Sheyenne Room	Cannonball Room	Governors Room
8:30 a m - 9:30 p m	Fiber Specifications for Future Network Builds Mike Lamb, OFS	Options for In-Home Data Transport Dave Hadley, DLink	Fiber Management Tom Warren, Clearfield	Cloud Computing Justin Sipma, Kadrmas, Lee & Jackson
9:30 a m - 9:45 a m	Break			
9:45 a m - 10:45 a m	Video Security Dan Lech, Border States, Electric	Metro Ethernet Testing Phillip Kazakov, JDSU	Unlicensed Wireless Craig Muller, Border States Electric	Transition of PSTN to IP Joe Puhalla, Kadrmas, Lee & Jackson
10:45 a m - 11:00 a m	Break			
11:00 a m - 12:00 p m	Quality of Services, Hierarchical Quality of Services and Queues in an SP Environment Aaron Miller, Cisco	DSL Fundamentals Jeff Harmon, JDSU	Wireless Backhaul: Stringent SLA's Cause Stress on the Carrier Backbone Seth Arndorfer, Dakota Carrier Network	Telco 2.0 - Reinventing the Service Provider Martin Laney, Calix
12:00 p m - 1:30 p m	Award Presentation & Luncheon - (Courtyard)			
	Heart Room	Sheyenne Room	Cannonball Room	Governors Room
1:30 p m - 2:30 p m	Video Security Dan Lech, Border States, Electric	Options for In-Home Data Transport Dave Hadley, DLink	Fiber Management Tom Warren, Clearfield	Telco 2.0 - Reinventing the Service Provider Martin Laney, Calix
2:30 p m - 2:45 p m	Break			
2:45 p m - 3:45 p m	Quality of Services, Hierarchical Quality of Services and Queues in an SP Environment Aaron Miller, Cisco	DSL Fundamentals Jeff Harmon, JDSU	Unlicensed Wireless Craig Muller, Border States Electric	Transition of PSTN to IP Joe Puhalla, Kadrmas, Lee & Jackson
3:30 p m - 7:00 p m	Exhibits Open - Courtesy of Suppliers Casino Night			

Thursday, February 16, 2012

8:00 a m - 11:00 a m	Registration (Coat Room)			
8:30 a m - 9:30 a m	Missouri Room - Downstairs	"The Cloud" has a Silver Lining: Becoming the Service Provider of the Future Martin Laney, Calix		
9:30 a m - 9:45 a m		Break		
9:45 a m - 10:30 a m		Overview of FCC's USF & ICC Reform Order Carmen O'Neill, Vantage Point Solutions		
10:30 a m - 10:45 a m		Closing and Evaluations		