

UTC Region 1 & 2

Combined Meeting



Thank You To Our Sponsors



SNC • LAVALIN



Wednesday, September 5, 2018

11:00 AM – 5:00 PM Meeting Registration

1:00 – 1:15 PM Welcome Remarks

Presenters: Region 1 & 2 Chairs to Open Meeting.

1:15 – 2:15 PM Telecom Evolution in Water Infrastructure

This session will look at how Smart Water Metering is extending the horizon of Network Monitoring through robust telecommunications. This end to end monitoring offers a unique opportunity for water utilities, as aging infrastructure issues put increased pressure on these utilities. Smart water meter deployments are delivering many times more information than before, and it is this volume of data that underscores the need for advanced telecom capabilities. Beyond old SCADA systems, real-time telecommunications and new automation tools exist that enable water and wastewater utilities to avoid billions of dollars in costs while ensuring optimal performance of the systems. By utilizing telecom, analytics and optimization software in the long-range planning process, cities can take much of the guesswork out of their water infrastructure.

Presenter: Bobbi Harris, VP Market Strategy & Development – UTC

2:15 – 2:30 PM Networking Break

Sponsored by: **NOKIA**

2:30 – 3:30 PM Regional Meetings


This meeting is closed to individuals not considered core members of UTC.

3:30 – 4:30 PM Migration from Legacy to Packet Switched Networks with Cyber Security and Virtualization


Due to the discontinuation of TDM/SONET vendors, equipment, and services, utilities are forced to migrate to Packet Switched Network solutions which must be robust & cyber secured with resiliency while supporting Ethernet and Legacy services. These solutions must fit large & small substations and large aggregation sites, all managed under one NMS for any media.

Presenter: Amit Tivon, Director of Sales – Northeast Region - RAD

4:30 - 7:00 PM **Networking Reception with Exhibitors**

Sponsored by:  **LEONARDO**

7:00 – 8:30 PM **Group Dinner**

Sponsored by:  **pdv WIRELESS**

Thursday, September 6, 2018

8:00 AM - 5:00 PM **Meeting Registration**

8:00 - 8:30 AM **Attendee Breakfast**

Sponsored by:  **PowerTrunk**
a Hytera company

8:30 – 8:45 AM **Opening Remarks**

Presenters: Region 1 & 2 Chairs to Open Meeting.

8:45 – 10:30 AM **UTC Training: Timing in Packet Networks**

Networking and Operational environments are transitioning to packet, providing an opportunity to examine common timing architectures deployed today. Going forward, packet-based architectures retain GPS as the foundation reference source while enabling implementation of more highly accurate and

resilient network designs. The new design principles are applicable to power, telecommunications and other networks.

Presenter: Shamir Stein, CEO, Fibrolan LTD

10:30 – 10:45 AM Networking Break

Sponsored by: 
Experience. Outcomes.

10:45 – 11:30 AM UTC Leadership Address

Presenter: Greg Angst, Vice-Chairman UTC Board of Directors, CenterPoint Energy

11:30 AM – 12:30 PM Federal Advocacy Update

Presenter: Bobbi Harris, UTC – VP Market Strategy and Development

12:30 – 1:30 PM Networking Lunch with Exhibitors

1:30 – 2:30 PM Networking Time with Exhibitors

2:30 – 3:30 PM Intelligent Substations: Turning Smart Grid Vision into Reality

Many factors contribute to the complexity of the electric grid, including the increasing demand for renewable energy, the growing number of prosumers, bidirectional communications with customers, the introduction of effective energy storage solutions, etc. What strategy should I take? How can I best manage the transformation of my technical infrastructure? How can I secure my environment? In his presentation, Gaétan Houle, Principal Security Architect at SNC Lavalin will attempt to answer all these questions.

Presenter: Gaetan Houle, Principle Security Architect, SNC-Lavalin (TBD)

3:30 – 4:30 PM

FirstEnergy Evaluation, Testing and Initial Deployment of a Private 700 MHz Radio System to Replace Copper Lines

FirstEnergy faced the following issues: scheduled cancellation of existing leased telco lines supporting SCADA and other applications by local telephone companies serving FirstEnergy service territories; growing levels of RF interference on its unlicensed part 15 radio leading to communications outages and maintenance problems; a major upgrade and expansion of its communication facilities to increase reliability and reduce overall operating expense.

FirstEnergy tested and selected an Upper 700 MHz A Block Solution and has begun deployment of point-multipoint wireless equipment which will ultimately cover over 3000 sites. This session will describe FirstEnergy’s project drivers, architecture, key equipment specifications, initial results, and challenges that FirstEnergy overcame.

Presenters:

Stephen Osvath, Director, Network Engineering, Operations & Strategy – FirstEnergy

Robert Finch, President – Select Spectrum

4:30 – 4:45 PM

Networking Break

Sponsored by:



4:45 – 5:45 PM

The Art of a Successful Broadband Deployment – Utility Case Study

PSEG retuned P25 radio system using PDV spectrum in exchange for PSEG spectrum in the 935-940MHz band, SMUD re-banded their new P25 radio system in advance of deployment moving to 800MHz channels with the assistance of PDV, and in exchange lowered the total cost of the new system. Both use cases showcase how leveraging spectrum in the 900MHz band can allow for future deployment of a broadband network. Opportunities a private broadband solution can enable, and typical use cases will be discussed.

Presenter:

Kevin Malloy, Director, Business Development – pdvWireless

5:45 – 7:00 PM

Networking Reception

Sponsored by:



Friday, September 7, 2018

8:00 – 11:00 AM Meeting Registration

8:00 – 9:00 AM Attendee Breakfast

Sponsored by:



9:00 – 10:00 AM UAS – Unmanned Aircraft Systems Use at CenterPoint Energy

CenterPoint Energy began investigating the use of UAS vehicles for utility applications back in 2013. Several Proof of Concept projects have been performed up thru August 2017. Then Hurricane Harvey hit, and the concept was put to work to see how UAS could help with Restoration efforts. Currently the data has been used for executive information, social media for CenterPoint exposure, insurance adjustments, and so on. CenterPoint continues to move forward building utility use cases to justify UAS use on day to day projects. Currently CenterPoint is using the outsource model, however a hybrid approach is being investigated. Projects that have been performed include: roof top surveys including photography and infrared, distribution circuit inspections, and during Harvey water level and damage assessments. Next, we are looking for gas leak detection, etc. More to come on how this technology can be used.

Presenter: Greg Angst, Vice-Chairman UTC Board of Directors, CenterPoint Energy

10:00 – 11:00 AM Utility Case Study: PSE&G Tower & Wireless Macro Site Relocation – Transmission Tower Replacement Project

Over the last six years, Public Service Electric and Gas (PSE&G) has undertaken a series of large tower replacement projects to upgrade their overhead transmission system. The tower replacement projects have created a significant amount of

work for the PSE&G team assigned to manage the activity especially in the North Central Reliability Project. The North Central project required the decommissioning and relocation of 41 macro-sites. This session will address the steps required to carry out these projects in detail, including how the team handled identification of sites that were to be terminated, prediction of impact, review of legal documents and contracts, and overall project management.

Presenter: Anthony Suppa, Project Manager – PSEG

11:00 – 11:15 AM Networking Break

Sponsored by:  LightRiver TECHNOLOGIES

11:15 AM – 12:15 PM Practical Lightning Mitigation

Lightning can affect electronic systems, often in catastrophic ways. This presentation will review some of the problems and suggest practical mitigation methods to reduce system susceptibility. Our discussion will concentrate on radio antennas feeding into small shelters or enclosures, along with proper grounding, inductance effects, soil quality and multi-point grounding.

Presenter: Jerry Hogan, Director of Engineering – Solara Technical Sales

12:15 – 12:30 PM Round Table Discussion & Wrap-up