Region 3 Spring 2020 Meeting
Hilton Franklin Cool Springs
Franklin, TN
March 4-6, 2020

Tuesday, March 3, 2020

4:30 – 6:30 PM   **Welcome Happy Hour**

Wednesday, March 4, 2020

7:00 AM   **REGISTRATION AND BREAKFAST FOR ALL ATTENDEES**

8:00 AM   **CALL TO ORDER, OPENING REMARKS & INTRODUCTIONS**

Speaker: David Adams, Region 3 Chair

8:30 AM   **WELCOME MESSAGE & HOST UTILITY HIGHLIGHT**

Presented by: **Don Hill, VP Operations – Nashville Electric Service**
Bruce Mackie, Design Engineering Manager – Nashville Electric Service

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9:30 AM   **BREAK**

9:45 AM   **UTC Leadership Report**

10:30 AM   **Federal Advocacy Update**

11:15 AM   **UtiliSite Update**

11:30 AM   **LUNCH** (On Your Own)

1:00 PM   **CALL TO ORDER & INTRODUCTIONS**

Speaker: Dave Adams, Region 3 Chair

1:15 PM   **UTC COMMITTEE REPORTS**

Speakers: Present Committee Chairs or Delegates

1:45 PM **BREAK**

***** THE REMAINDER OF THE MEETING IS FOR UTC UTILITY MEMBERS ONLY *****

2:15 PM **REGION 3 BUSINESS**

Treasurer's Report: - Lee Ayers, Region 3 Secretary/Treasurer

Old Business: - Minutes from Region 3 Fall 2019 Meeting

New Business:
- Call for Host Utilities for Future Meetings
- Call for Interest in Presenting at Future Meetings
- Review Training Requests for Future Meetings
- Review Agenda format

ANNOUNCEMENTS

3:30 PM **ADJOURN TO EXHIBIT HALL**
Please visit the Exhibit Hall hosted by our vendors between 3:30 PM and 6:30 PM. This is an outstanding opportunity to see the latest technology in our industry, plus network with peers and vendor partners.

Thursday, March 5, 2020

8:00 AM **REGISTRATION AND BREAKFAST FOR ALL ATTENDEES**

8:30 AM **INTRODUCTION OF TECHNICAL PRESENTATIONS**

Speaker: DJ Harrison, Region 3 Vice Chair

8:45 AM **Narrowband Wireless SCADA Traffic Management for SCADA/DA**

The most common challenge encountered when deploying an Ethernet based SCADA/DA network across narrowband devices is caused by improper configuration of the SCADA host or excessive traffic generated by other devices attached to the OT network.

Often, these issues force a delay in deployment and as this is not a skill that is widely developed by utility personnel it can be quite frustrating to identify the root causes. 4RF often sends field service engineers to the customer location to perform traffic analysis and make recommendations but this can add delays as well. With some understanding and examples of what this behavior looks like it is within the capabilities of most utilities or supporting IT organizations to resolve these problems.

There are tools available in the radio that can help in identifying this condition and when used in conjunction with some freely available network analysis applications the utility can identify the offending devices or the parameters of the SCADA system that need to be configured differently.

We will present examples of the performance statistics and packet captures taken from several misbehaving networks. Identify the steps taken to resolve the different issues and captures from those same networks once the changes were made.

Even when this type of misconfiguration has not significantly impaired network performance it leaves security vulnerabilities and an eventual limit to how many devices can be added to the network. When this artificial cap on performance is found midway through deployment it can require significant rework to address the issue when there are hundreds of devices already on the network.

Speaker: Tisha Hayes, Senior Engineer, North America – 4RF USA

9:45 AM   Understanding CTIA's Petition for Declaratory Ruling and Its Potential Impact on Electric Utility Assets

On September 6, 2019, CTIA - The Wireless Association filed with the FCC a Petition for Declaratory Ruling that demands a broad expansion of the FCC's pole attachment jurisdiction under Section 224 of the Communications Act. *First*, CTIA seeks a declaration by the FCC that all utility-owned light poles are subject to the same mandatory access requirements that now apply to electric distribution poles. *Second*, CTIA seeks a declaration that would effectively ban utility construction standards that restrict access to certain portions of the pole – even to the extent that such restrictions serve important safety and reliability objectives of the utility pole owner. And *third*, CTIA seeks a declaration that would prohibit all bargained-for pole attachment terms that deviate from the FCC's rules. This discussion will provide explanation and analysis of the CTIA's three (3) specific requests for declaratory relief, the industry's opposition, and the prospects for success at the FCC.

Speaker: Brett Heather Freedson, Member – Eckert Seamans Cherin & Mellott, LLC

10:15 AM   **BREAK**

10:30 AM   **Modernizing the Network Synchronization Infrastructure**

As modern networks move away from traditional TDM and on to packet transport technologies the requirements and strategies for synchronization in the network have changed greatly. This tutorial is intended to provide network engineers a better understanding of the latest synchronization technologies and strategies. Why PTP "Precise Timing Protocol" is so much more capable than NTP will be made clear. PTP Telecom Profiles for phase and frequency applications and the latest ITU ePRTC standard and will be discussed as well as two methods for advanced spoofing detection.

Speaker: **Chuck Perry, Business Development Manager – Oscilloquartz, a division of ADVA Optical Networking**

11:30 AM   **LUNCH** (On Your Own)

1:30 PM   **Developments in the 700MHz A Block Spectrum**

<u>**Learning Objectives**</u>: Explain the rising popularity of this Spectrum Ban. Outline current License Transfer Activities, Successful License Renewals in 2019; Technologies and Deployments of the 700 MHz A Block Spectrum

<u>**Agenda:**</u>
(1) Review the details of the 700 MHz A Block
(2) Provide understanding why the CII is gravitating to this Spectrum Band;
(3) Highlight this frequencies advantages for B&V Clients;
(4) Equipment, Manufacturers & Equipment performance in this Spectrum Band;
(5) Technological advancements expected for this Frequency Band.

Speaker: **John Vislosky, Senior Vice President – Access Spectrum, LLC**

2:30 PM   **BREAK**

2:45 PM   **Fundamentals of Communication-Assisted Transmission Line Protection**

This presentation provides a basic overview of power system transmission line protection with specific emphasis on communication-assisted protection methods for improved power grid reliability.

Presented by: Ted Warren, Principal Engineer – Southern Company

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3:45 PM   **5G is Here, Are you Ready?**

As technology continues to grow, more and more 5G sites are being installed. 5G is here and it isn't slowing down, so are you ready? During this session, subject matter experts will take a look at a typical installation and cover topics that include, but are not limited to: the design, fiber sales, metering, safety, attachments, etc.

Moderator: **Sheila Wells, Design Engineering Senior Engineer – Nashville Electric Service**
Panelists: **Eric Fugett, Senior Engineer – Nashville Electric Service**
      Ken Hill, Program Manager – Crown Castle International

4:45 PM   **ROUND TABLE, CLOSING STATEMENTS & ADJOURN**

Speaker: David Adams, Region 3 Chair

5:30 PM   **NETWORKING EVENT - Cocktail reception**

Friday, March 6, 2020

8:00 AM   **BREAKFAST FOR ALL ATTENDEES**

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8:30 AM   **UTC Region 3 Members Meeting**
      UTC Region 3 Meeting in Review
      Discussion Regarding Next Meeting
      Special Topic: TBD
      Lessons Learned / "Pens Down" Roundtable