

Wireless Network Current (#CTPG6)

Presented by Craig Coolidge of CDW



PRESENTER: **Craig Coolidge**Wireless Technical Architect

CDW



MODERATOR: **Kyle Meister**Wireless Analyst

Vorys, Sater, Seymour, and Pease LLP

Thank you for being here today

August 20, 2014

Wireless Network Current

Outline

4 Popular Topics

- > 802.11AC vs. 802.11N
- ➤ Site Survey
- Wireless Management
- Identity Management

Polls

Q&A and Discussion

- During/after each topic
- > At the end

Wireless Network Current

802.11AC vs. 802.11N



The 802.11 wireless network design will drive changes to the infrastructure (switches, cabling, POE budget, etc...). The amount of change is determined by the density and data consumption (number of devices, applications, etc...)

802.11AC

Channel Width

Wave 1: 80MHzWave 2: 160MHz

Throughput

Wave 1: 1.3 GbpsWave 2: 7 Gbps

Spectrum - 5GHz

MIMO

Wave 1: MIMOWave 2: MU-MIMO

Gigabit Wi-Fi

802.11N

Channel Width - 40Mhz

Throughput – 600 Mbps

Spectrum – 2.4 GHz and 5GHz

MIMO

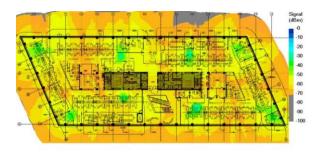
100 Megabit Wi-Fi

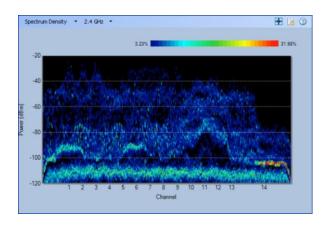


Wireless Network Current

Site Survey







Why?

- How Many
- Where
- Cabling pulls
- Density (Users and Devices)

Type

- Predicted
- On-Site
- Costs
- Details
- Benefits





Do I need it?

- At what point
- Number of sites

Own it or Use it

- Upkeep and Maintenance
- Operational Expense
- Feature and Functionality Limitations?

Wireless Network Current

Wireless Management: On-Premise or Cloud

Wireless Network Current

IMAGINE © 2014

Identity Management

- Users and Devices
- Website limitations?
- AAA Authentication, Authorization, and Accounting
 - RADIUS Authentication and Accounting
 - TACACS+ AAA
- Access Policies
 - CISCO ISE (Identity Services Engine) RADIUS
 - Aruba ClearPass RADIUS and TACACS+
 - Microsoft NPS RADIUS
- EAP Types
 - EAP-TLS Certificates or PKI
 - PEAP Microsoft AD
- Guests Specific Account, Facebook, Temporary Credentials, Scheduling
- Acceptable Use Policy

Questions

We'll now open it up for questions

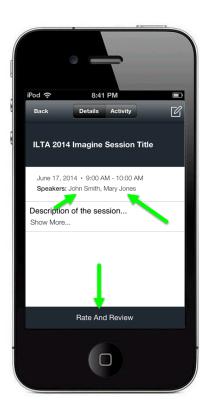
YOUR FEEDBACK ABOUT THIS SESSION IS TRULY CRITICAL TO US!

Please take a moment to visit the **Agenda** in the ILTA Mobile App, and use the **Rate and Review** choice for this session.

Please do the same for the **Speakers** here today. Visit their screen in the app and use **Rate and Review**.

You can find both by viewing the **Details** page for this session.

And remember, your reviews earn points toward the Leaderboard!



And remember, your reviews earn points toward the Leaderboard!

Thank You

