“Implementing Digital Building Strategies and Applications within the Hospitality Space”

Part 2
Panel Participants

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Stephen Eaves
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VoltServer, Inc.

Matthew Wootton
CTO and Co-Founder
Ivani
Lobby Reception
Typical Guestroom
Executive Level
2 Level Penthouse Suite
Device Deployment

Typical Hallway Cabinet

Lighting Driver
Fiber Module
ONT
Voltserving Receiver
Cisco Switch

Typical Guestroom Cabinet

DTV Brain
Digital Electricity Deployment
Energy Storage System (ESS)
Concessions to the State
Evolution of PoE

**UPOE+ Standardization**
- 30W PoE (2009)
- 60W UPOE (2011)
- 90W UPOE+ (2018)

**Growing ecosystem**
- USB-C Dongle
- Touchscreen PCs
- POE Displays
- UHD IP Cameras
- Network Powered Lighting
- Badge Readers
- CBRS
- Environmental Sensor Hubs
- Biometric Door Locks
- Biometric
- HVAC VAV's
- Shade, Blind, Screen, and Curtain Motors

**IEEE standardization expands the PoE ecosystem**
- IEEE 802.3bt complements Cisco UPOE by adding 4 new classes of devices
- Safety measures ensure up to 90W of power is safely delivered
New PoE architectures are emerging with 90W

1. Daisy-chaining (for cable cost savings)
2. Single Pair PoE (for replacing RSxxx for BMS)
3. USB-C power (laptop/phone charging + data)

Catalyst 9400 1G UPOE+® 90W line card (C9400-LC-48H)

IEEE 802.3bt compliant platforms
Catalyst 9400 and 9300 Series*

*IEEE 802.3bt Type 3 (60W) supported on C9300 with IOS-XE 16.12.1. Type 4 (90W) in roadmap.
THANK YOU!

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