cisco live!







Wireless, Wireless Everywhere . . .

How to Navigate the Choices for Your Industrial Use Cases

Bibin Raveendran, Product Manager, IoT Wireless PSOIOT-1005



Cisco Webex App

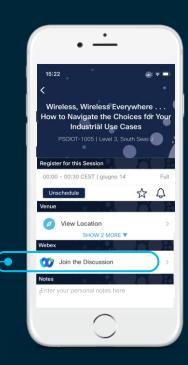
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click "Join the Discussion"
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 17, 2022.



https://ciscolive.ciscoevents.com/ciscolivebot/#PSOIOT-1005



PSOIOT-1005



Agenda

- Panelist Introduction
- IOT Wireless Portfolio
- Wireless, path to a decision
- Panel discussion
- Introducing Cisco IW9167EH
- Conclusion



Introduction

Tom Booth

Managing Consultant, GTS Solutions, Inc. (GTSS)

Email: rbooth@gogtss.com Cell: +1 8034665000

Managing Consultant of GTS
Solutions, Inc. GTSS is Cisco
Premier Partner headquartered in
Columbia, South Carolina. We are a
technical services firm that
specializes in IOT including Intelligent
Transportation Systems,
Ports/Logistics, and Smart City
projects using the Cisco URWB
solutions.

Keith Jones

President, Prism Systems

Email: keith.jones@prismsystems.com

Cell: +1 2514210733

President and CEO of Prism Systems, Inc. Prism is headquartered in Mobile, Alabama with offices in Los Angeles, Orlando, Shanghai, and Beijing. Prism is an engineering firm that focuses on software, controls, and networking in the OT space. We specialize in complex wireless applications and the implementation of Cisco URWB applications.

Bibin Raveendran

Product Manager - Cisco Systems, Inc

Email: bthoomba@cisco.com
Cell: +1 4083949643

Product Manager, Industrial Wireless Cisco System, Inc. I build incredible products at Cisco that can solve customer challenges in various OT environments. I have been with Cisco for 15+ years and the last 10 years I have spent on wireless technologies focusing mainly on IoT use cases and industrial automation. I hold dual CCIE certifications, one in Data Center and another in Wireless



Wireless technology is the enabler of Digital **Transformation Across IOT Industries**



- **Employee safety**
- Increase reliability



- Efficiency gains
- **Operational Equipment** Effectiveness
- **Enabling new services**



- Reduced downtime
 - Secure Operations



The network is extending to challenging environments

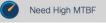
















Cisco's Evolving Wireless Portfolio for Multi-access Needs

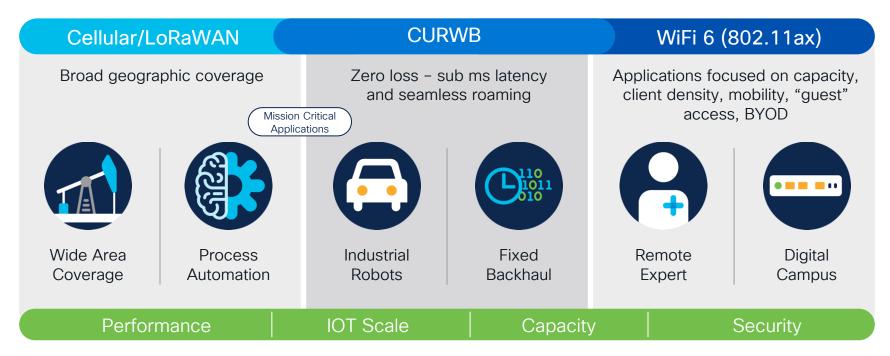


SP Public Network and Enterprise Private Network



Multi wireless access - better together!

Cellular, CURWB and Wi-Fi 6 are complementary technologies – always be searching for better together





Path to a decision











Customer Use Case:

AGV/AMR, Train to Trackside, Autonomous mining, Remote Crane operations, Entertainment, Logistics



Manufacturing Transportation

Mining

Utilities

Roadways

What are the devices to connect?

What are the applications requirements?



Deployment Scenarios?



What are the potential technology options?



What are the CapEx and OpEx Implication?



Devices

Local and global Eco-system

Handhelds. AGV/AMR, Dozer, Cranes, Rail



Resiliency

Latency, Reliability, Scalability, Ease of operations, device and system throughput...



Deployment

Regional regulations: spectrum? Specify Environment: Indoor / Outdoor Access / backhaul Cyber-security



Technology

Wired: Ethernet, serial, DSL Wireless: Wi-Fi & Ultra-Reliable Wireless Backhaul, 5G Cellular, Wi-SUN, LoRaWAN,... Spectrum: Unlicensed, Licensed: Private,

Public, Shared



TCO

Product costs? Operational costs? Complexity? Training? Backward compatibility?



Introducing Cisco Catalyst IW9167 Series One hardware, two wireless technologies

OR

NEW

Industrial and outdoor access point (Wi-Fi 6/6E*)



Pair with Cisco DNA Center for analytics and efficiency

ENHANCED

Cisco Ultra-Reliable Wireless Backhaul (Cisco URWB)



Deploy and manage with Cisco IoT Operations Dashboard

What's new?

Tri-radio 2.4 GHz, 5GHz, 5/6GHz

> 4x4 4 spatial streams

Multigigabit RJ45, or SFP+, M12 adapters

> GNSS, BLE, Scanning Radio

Orderable: 2nd Half 2022 Shipping: Early 2023

*6E-ready, subject to regulatory domain approving the use of the 6GHz spectrum outdoor



Cisco Live – June 12–16, Las Vegas Cisco Ultra-Reliable Wireless Backhaul related sessions

Session ID	Title	Date and time
TECIOT-2584	Designing an Ultra-Reliable IoT Wireless Network	Sunday, Jun 12 2:00 PM - 6:00 PM PDT
BRKIOT-1150	How Autonomous Vehicles will Change your World	Monday, Jun 13 8:00 AM - 8:45 AM PDT
IBOIOT-2757	Terminal Operations Digitization with Cisco Connected Port and Terminal Solution	Monday, Jun 13 11:00 AM - 12:00 PM PDT
PSOIOT-1005	Wireless, Wireless Everywhere How to Navigate the Choices for Your Industrial Use Cases	Monday, Jun 13 3:00 PM - 3:30 PM PDT
BRKEWN-2832	Outdoor Wireless, a Prospective from the Field on Design, Build and Maintenance	Monday, Jun 13 4:00 PM - 4:45 PM PDT
BRKIOT-2014	Mining Made Safer and More Efficient with Autonomy	Thursday, Jun 16 9:30 AM - 10:15 AM PDT
LABIOT-2152	Cisco Ultra-Reliable Wireless Backhaul Lab	Walk-in Lab



Technical Session Surveys

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Guglielmo Marconi - 1931





Thank you



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