

Exceptional Wi-Fi for your hotel guest to feel at home - cnPilot Hospitality Solutions

My background





- 25 years experience in Hospitality with similar academic background than many GMs in the industry
- 18 years involved in Sales roles
- 12 years pushing Wi-Fi, from Hotspots in Healthcare to Managed Networks in Hospitality
- Last 7 years with a global System Integrator selling to major Hotel Chains worldwide
- Former owner of a family B&B Guest House
- Since July 2018 Director of Hospitality Sales EMEA at Cambium Networks





What is Hospitality about for Cambium Networks?



A services focused industry where public Wi-Fi is #1 amenity







Any Tourism related activity: accommodations, hotels, resorts, lodging units, home(s) away from home, camp grounds, cruise ships...

The markets served within Hospitality





Who is our Hospitality Partners Program for?



Existing or new Wi-Fi partners, VARs with a foot print in Hospitality:

- Hotels
- Resorts
- Camp sites
- Residences
- Healthcare
- Cruise ships
- Stadium
- Events
- Food chains



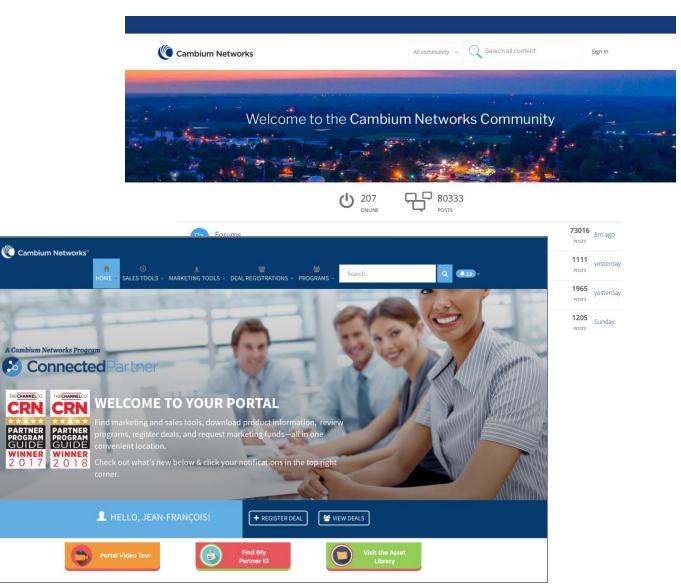
Wishing to connect the Un(or bad)connected



Why joining our Hospitality Partners Program?



- Cambium Networks Community
 - Forum / Best practices
- Partner Portal
 - Collaterals / Case studies
- Hospitality events
 - Yours/Ours
- Ecosystem partners
- 24/7 Technical Help line
- Sales Leads and support





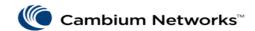
Requirements & Benefits of the Hospitality Partners Programme

Hospitality Partner Program

- Officially launched on the 18th October
- Open to existing and not yet partners
- Connect to https://channel.cambiumnetworks.com/
- Requirements:
 - Show evidence of existing foot print
 - Purchase a demo kit
 - Follow the cnPilot trainings
 - Obtain the certification
- Benefits:
 - Discount on cnPilot MSRP
 - Additional discount with Deal Registration (mandatory)
- Process:
 - The price list on the portal (master distributor version) in the Hospitality Program section of the asset library shows the discount structure.
 - The partner must do a Deal Reg and get approved.
 - Then the partner provides the Deal Reg ID to the distributor who must report it on POS.







What are our Assets for Hospitality?





Travel & Hospitality are booming!

World over!

\$1.6

Trillion

6.1% ↑

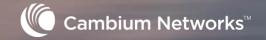
\$170

Billion

Bookings

Corp Travel

Hospitality Bookings



And meanwhile ... Internet usage and expectations are changing as well!





the best
So how are /hotels reacting?









Top technology trends

1 Service Automation

Tech: Analytics and Machine Learning

Artificial Intelligence, & Wireless Fabric

Guests

- 1. App based check-in
- 2. Facial recognition to unlock doors or floors!

Staff & Service

- 1. Staff schedule optimization
- 2. Matching staff to guest levels
- 3. Robotic servers (Japan)

Top technology trends

Seamless Guest Experience

Tech: Analytics and Machine Learning

Artificial Intelligence, & Wireless Fabric

- 1. App based login (Hilton)
- 2. Automated Internet bandwidth settings
- 3. Auto-setting the thermostat in the room
- 4. Stocking the fridge to the guests most likely preference
- 5. Post check-out targeted engagement

What's common to great technology?

Great Wi-Fi Everywhere!

- Variety Indoor & Outdoor
- High speed 802.11ac Wi-Fi for:

Rooms, Corridors, Lobby,

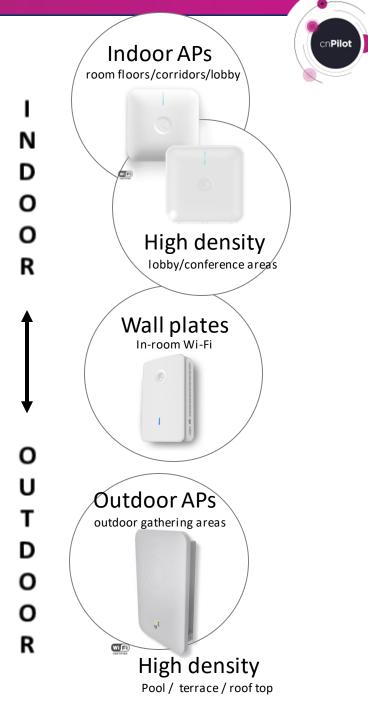
Conference rooms, Restaurants,

Pools, Golf courses, ...

- Seamless guest roaming
- Multiple VLANs, Multiple SSIDs

Typical Wi-Fi installation and expectations

- Standard BOM with Cloud based Wi-Fi
 - Firewall / Router
 - Controller / Gateway
 - Switches / Access Points
- 100% coverage with -65dB minimum
 - Room floors
 - Lobby and Conference areas
 - Outdoor areas (roof top, garden, pool)
- Indoor Wi-Fi ratio :
 - 1:6 to 1:4 rooms per AP ratio in Budget Hotels
 - 1:4 to 1:2 rooms per AP ratio in Midscale Hotels
 - 1:2 to 1:1 rooms per AP in Upscale/Luxury

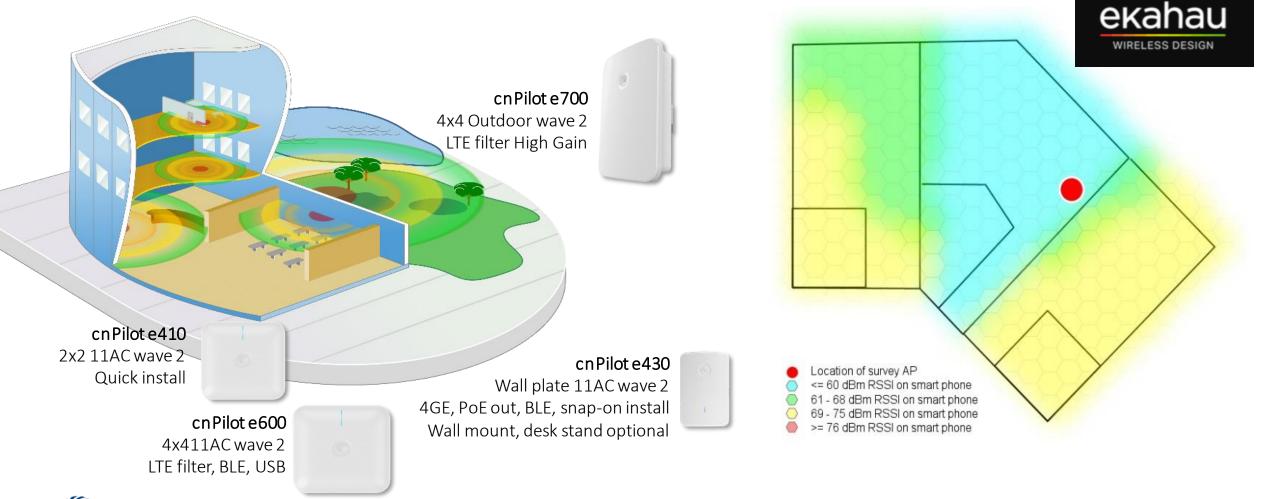


From corridor APs to In-room APs



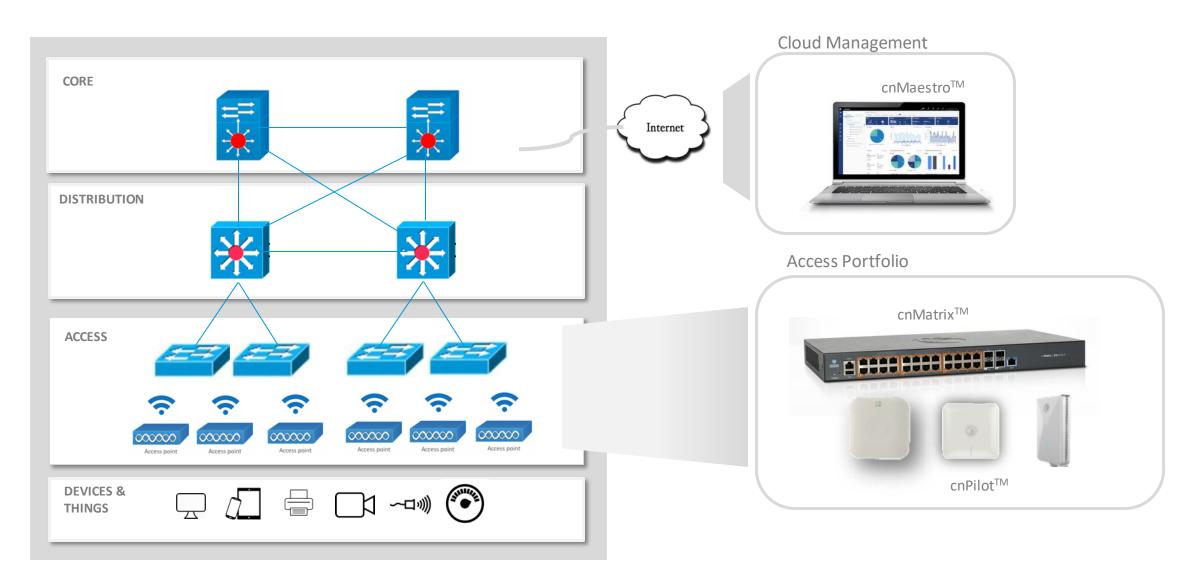
Personal Wi-Fi, just like at home

Cambium Networks™



3 tier enterprise network









Cambium Networks Access Switches



cnMatrix EX 2K

CnMaestro Cloud based management platform



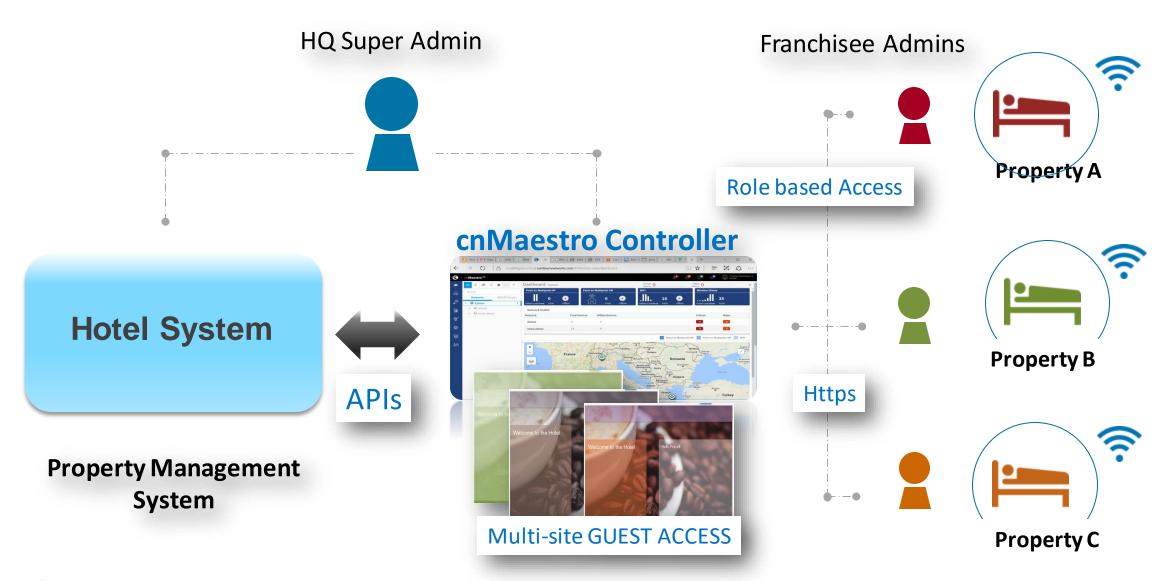
CnMaestro is a true single pane-of-glass management for the entire network:

- Unlimited scalability. From 1 to 100s of thousands of APs
- Seamless roaming from guest room, to poolside, to conference room
- Firmware updates; manual or scheduled
- Multi-user access so that property IT staff can provide coverage if needed
- Network diagnostics tools including packet capture, throughput testing and built-In Wi-Fi scanning to locate all access points that could be interfering with the network
- Built in Guest configure globally using the integrated design tool, push it out to the edge access points
- API for integration into OSS/BSS systems for 3rd party management entities



Designed for Managed services Operations

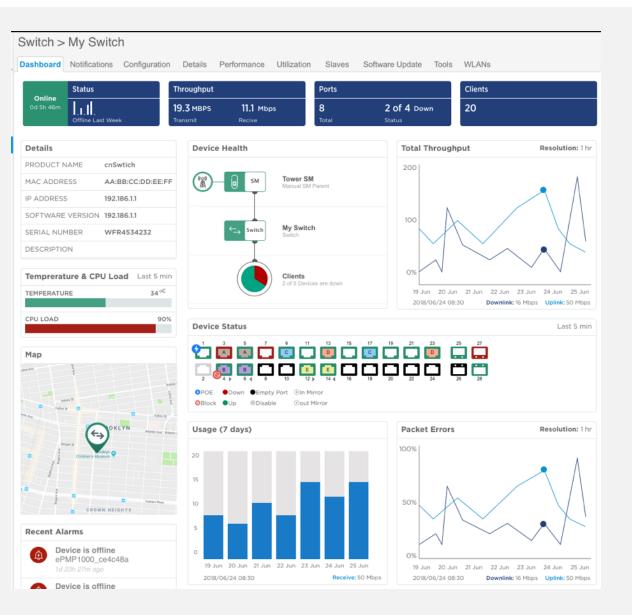


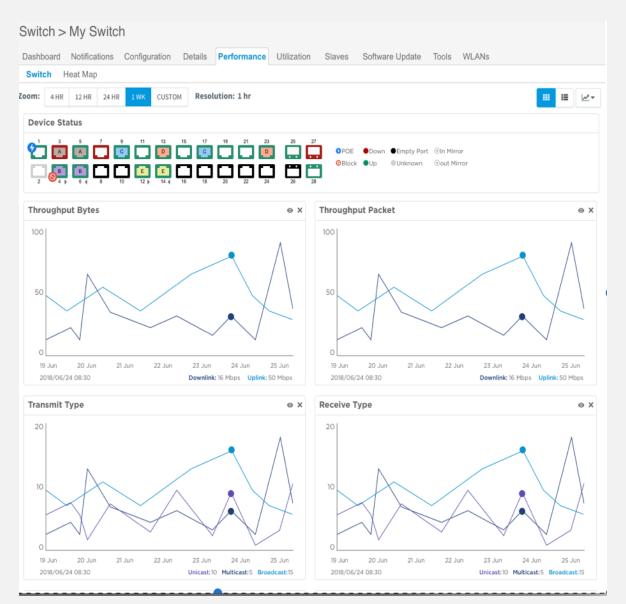




cnMaestro switch management

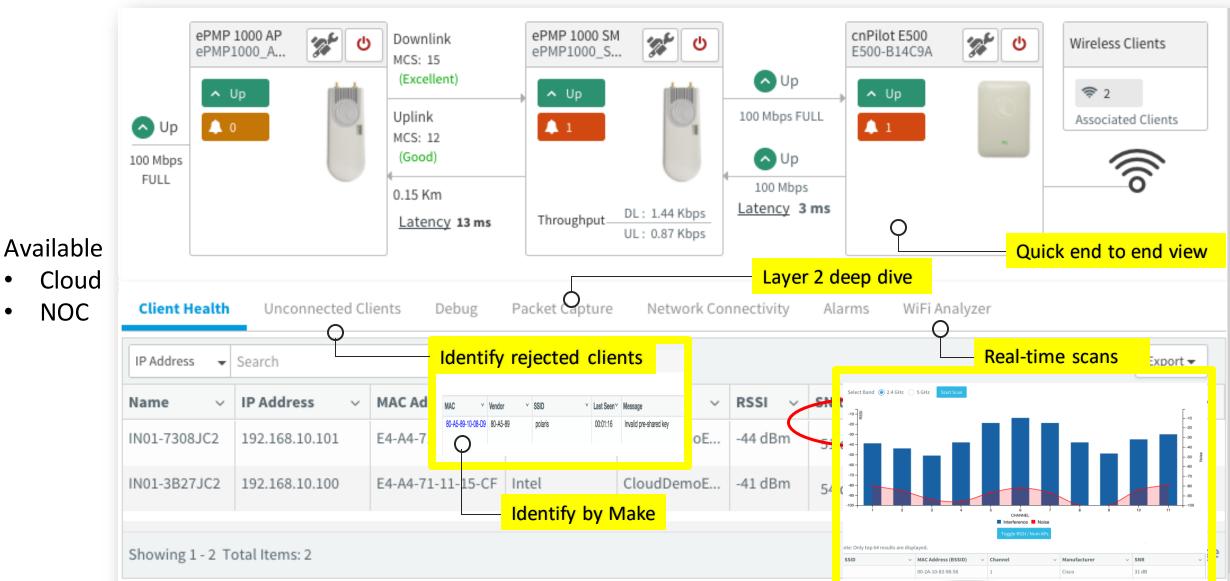






Trouble shooting the Wireless fabric

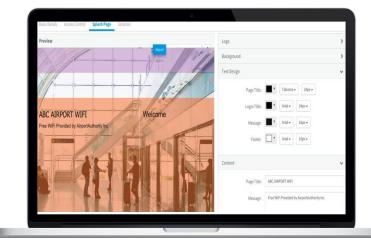


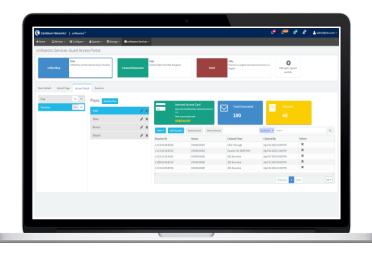


cnMaestro™ end to end network management platform









Easy Onboarding
Rich Visualization
Monitoring
Troubleshooting
Data and Reporting
API'S





Monetizing Hotel Wi-Fi is key for the properties

- Turning an amenity into a powerful marketing features tool for a quick ROI with:
 - Bespoke and interactive Captive portal
 - Guest data capture
 - Property facilities display
 - Post booking Guest survey
 - Guest express reviews
 - Cross services selling
 - Advertising
- Enabling the hotelier to increase :
 - Hotel guest reviews and ratings, and therefore
 - Hotel revenues
 - From Premium Wi-Fi voucher,
 - Higher room rate, Higher occupancy rate,
 - Higher number of booked tables, ...





Hoteliers Expectations vs. Cambium Networks offering



100% Hotels' expectations and needs:

- Seamless connectivity
- Turnkey solution for guest and staff
- Shared management tool
- Full service contract 24/7
- Affordable TCO















cnPilot™ E430W - Hospitality Wall Plate



- 802.11ac wave 2
- MIMO 2x2
- 2.4 + / 5 GHz, omni antenna
- Up to 256 clients, 16 SSID
- PoE-out for VoIP ph
- 4x Ethernet ports







Who benefits from a Cambium Networks installation with wall plate?

cnPilot

The Hotel

- Future-proof installation with one AP per room.
 - In 2010: hotels used to deploy 1 AP per 7 rooms, in 2014 a 1:4 ratio, today it's 1:3 or 1:2 ratio.
 - Cambium enables a 1:1 ratio

The Guest

- Deliver the "home experience" of the guest, thanks to one AP per room: this is personal Wi-Fi
- 100% coverage in the room, no issues getting connected when sitting 4m from the AP
- Supports all devices, streams all personal media

The Service Provider

- Better performance, less trouble calls
- Lower installation cost by consistent and simplified installation.
- Market proven outdoor PTP/PMP technology extend coverage across resorts
- cnMaestro in cloud or on-premises same product : one management platform for all networks
 Cambium Networks™

Unique positioning in Wi-Fi market



Large Enterprises, Tier 1 SP's (\$3.5 B)

Mid-Market, SME (\$3 B)

High Priced AP's AP licenses Management License Annual SW Support contracts

Cisco, Aruba, Ruckus, others

Enterprise Grade Wi-Fi and access switches Reliable, Simple, Low TCO

CAMBIUM OPPORTUNITY

Low-cost consumer grade

UBNT, MikroTik, TPLink others

Consumer Class Wi-Fi

Enterprise Class Wi-Fi



The cnPilot advantage – No hidden charges



Cambium Economics

Comparable AP's from Competition: Ruckus, Aruba, Cisco, Meraki

Wall Plate AP : e430H: \$295

HW Price: \$395 - \$695

No AP Licenses: \$0

3 YR AP Licenses: \$100 - 300

Free Cloud / On-prem Mgmt: \$0

Management License: \$50-150

Free SW Maintenance: \$0

SW Maintenance: \$20-\$50

Total per AP: \$295

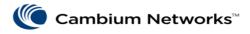
TOTAL: \$575 - \$895

Cambium Solution TCO is one-half to one-third that of enterprise competitors





Hospitality Case Studies



Wireless Fabric for Hospitality in North America



- Clubhouse, Restaurant, Bars, Beach Common Areas, and the Outdoor Concert Area.
- 400 to 600 Devices Peak Times
- Omnidirectional Outdoor APs, Sectorized Outdoor AP
- E600 4x4 Wave 2 Indoor APs
- Expanding with e430 APs
- Replacing existing Wi-Fi due to Unreliable Performance
- cnPilot
 - Reliable and Consistent Connections
 - Better Coverage and Capacity
 - Cambium Support
 Cambium Networks™









Making the Preferred Choice to 802.11ac Wave 2



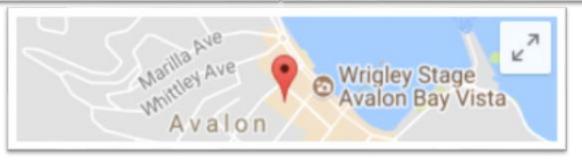
- Complete Hotel Refurbish
- 200 Rooms Spanning 3 Floors
- 200 Wave 2 Wall Plate APs
- e410 and Omnidirectional Outdoor APs
- cnPilot
 - Reliable and Consistent
 - Better Coverage and Capacity
 - Self Registration Captive Portal
 - Secure and Separate Traffic

HOTEL ATWATER

Home > Hotels & Packages > Avalon - Catalina Island









The Making of a Destination Hotel and Delightful Dining Experier.

cnPilot

- 100% Renovation in 2012 From Radisson
 Franchise to Destination Themed Hotel
 - 177 Room, Double Occupancy
 - 9 Floors Spanning 5000+ Sq Ft
 - May to October Peak Occupancy
- 37 Indoor Access Points with cnMaestro Cloud Management
- Wi-Fi Signal Extends to Parking Lot
- Preferred by Secret Service and Harley Davidson Corp.
- Replaces a problematic deployment from a name brand vendor
- ZERO Wi-Fi Complaints since install











Wireless Fabric for Hospitality in Europe



Ferienzentrum Schloss Dankern

Haren (Ems), Germany EUROPE Holiday resort centre – 770 cottages



Cambium Networks' partner contact: Tabatha von Koelichen





On Premise/ Cloud Managed / AP Controller

Free/Premium Wi-Fi Guest access & Hotel operations

X PTP

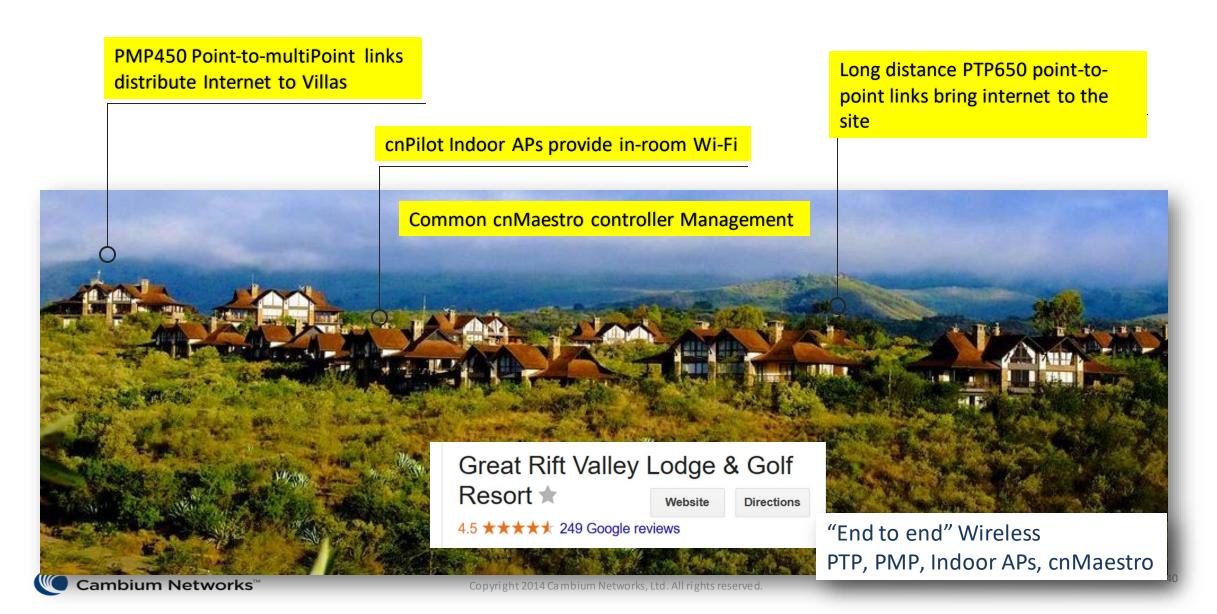
☑ PMP

☑ Wi-Fi



Wireless Fabric for Hospitality in Africa





Wireless Fabric for Hospitality in Asia









3,232 reviews

Mumbai, India

55,000 Sq ft. Tropical lagoon

354 luxury rooms,

e430, e600 (in-progress)



Holiday Inn - IHG









Holiday Inn Resort Baruna Bali

Bali, Indonesia

100+ room hotel

Indoor Omni, Outdoor APs

e410, e600, (e430 in progress)

Radisson – Radisson Group





The Leela – Preferred Hotels & Resorts







BANGALORE



4.5 ••••

2,454 reviews

Bengaluru, India

357 luxury rooms,

tripa

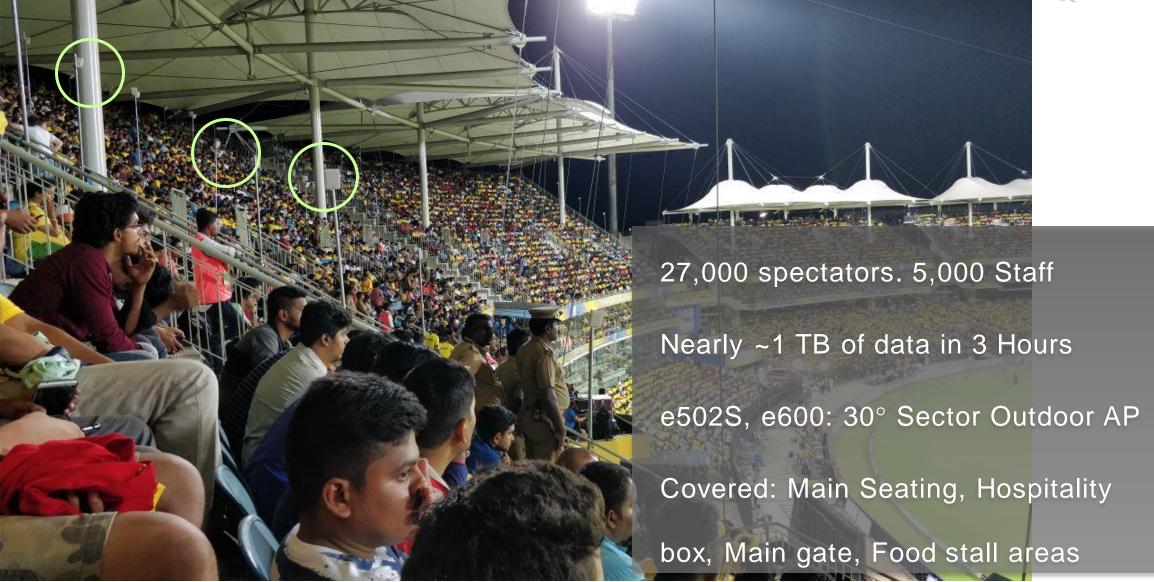
2 Ballrooms, 12 Conference rooms

e430, e600 (in-progress)



Stadiums







Events



Managed Services Play

Outdoors Event Wi-Fi

High capacity reliable Wi-Fi

Winning factors

802.11ac, IP67,Robustness

Zero touch provisioning

Ease of installation

Ease of cnMaestro management





Events

cnPilot

- 6 Halls. 15,000 m². 70,000 visitors.
- Connecting convention center,
 gaming areas, Common areas
- cnPilot Indoor & outdoor APs

"... huge ... simultaneous users

connections connected wirelessly ...

Cambium delivered spot on in every single

aspect – *reliability, capacity and*

easy management"

- Damir Durovic, the event CEO,



National Park Safety and Education



Connectivity for Visitor Safety and Education. Expanding to Inside hospitality

- 18 Parks
- Lake Meade and Lake Powell First to Deploy/Per Park
 - Sectorized and Omnidirectional Outdoor APs
- Won Against Ruckus
 - Equivalent performance
 - No mandatory renewal fees
 - Option for High SLA purpose built wireless backhaul
 - Cambium Support







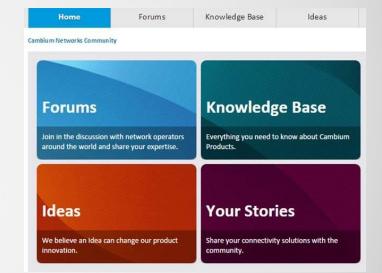


Join the growing Community – Share your thoughts!



Time for Q&A

http://community.cambiumnetworks.com/







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