

Outline for VoIP over WiFi Installation & Operation Class

FULL OUTLINE

VoIP

Protocols and Standards
SIP, H.323, MGCP, Megaco, Cisco CCP
VoIP Applications

WLAN/WiFi

Protocols and Standards
802.11a-b-g, HYPERLAN, 802.16 WIMAX, MMDS, WLL
WLAN Hot Spot Provider Value Chain

VoIP Over WLAN

Application Areas
Enterprise Solutions
Service Provider
Developing Nations / Rural America
Second Line Service
Hotspots Versus Mesh Networks
Reliability / Survivability
CALEA
Disaster Recovery
802.16 for Wireless Backhaul
Relationship with Cellular

A look inside VoWiFi

VoIP Coding Algorithms and QoE
VoIP Class & Marking – end-to-end QoE
Protocol Trace
Performance Monitoring
System Latency
Dropped Packets
Errored Packets
Jitter

VoIP Over WLAN Implementation

Performance Issues in a Wireless World
RF Bandwidth
Spectrum constraint impacts/FDD and TDD
Bandwidth Management for QoS and SLAs
Dynamic Adaptive Modulation
Static versus Dynamic BW allocation
RF Coverage – Who's on Net
TDD and Symbol Rate
NLOS Coverage, OFDM
Mesh Routed Networks

Security Issues

Radio Frequency Interception RF Hacking
Spread Spectrum, DSSS & FHSS
Wireless Network Security Techniques
Message Encryption Protocols
Authentication Protocols
Hardware / Software Techniques
Jamming susceptibility

VoWiFi and the Regulatory Landscape

State / US Federal / International
911 & CALEA issues

VoWiFi System Examples

VoWLAN Equipment Supplier
Service Provider

What's Next?

Smart Antenna Systems
Emerging Standards
802.20, 802.11e, 802.11n

Conclusion

"Frequently Asked Question (FAQ)-driven training gets right to the issues: no fluff, no waste of time. Just information."

PROGRAM "AT A GLANCE"

Program Type: Class
Available to Public: Y
Available for Single Client: Y
Program Length: 1 day
Program Times: 9:00 am - 4:30 pm
Lunch Provided: Y
Audience: Organizations Implementing VoIP over WiFi.
Prerequisites: VoIP over WiFi in One Day or equivalent experience.
Difficulty Rating: 4 out of 5 (!!!!).

PRINCIPAL PROGRAM DEVELOPER



Bruce P. Hall

Bruce P. Hall has over thirty years experience in the wireless communications industry: Twenty-five years in Technical Operations and Engineering of Mobile Telephony, Paging Networks, Two-way Simulcast Radio Systems, Microwave links and fiber-optic RF transport links and nine years in Systems Engineering, specifying, designing and implementing Wireless Local Loop systems, Wireless Integrated Data & Video Broadband Access Networks and Common-Carrier & Unlicensed Microwave backhaul networks. Bruce's most recent area of focus is the burgeoning VoIP over WiFi area where Bruce combines his wireless and telephony experience to do training, writing and consultation. Bruce is a Certified Project Management professional.

To request a class, contact us at VoIP@MobileIN.com
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