

Outline for VoIP over WiFi in One Day Class

FULL OUTLINE

VoWiFi Market Opportunity

- VoIP Market Overview
 - Market acceptance/growth, Multimedia
- Wireless LAN Market Overview
 - Hot spots/hot zones, wired net extension
- Combined VoIP+WLAN/WiFi Impact
 - Enterprise Solutions
 - Carrier/Service Provider
 - Rural America/Developing Nations
 - Second Line Service
 - Convergence: your mobile phone is your PC

VoIP Standards & Protocols Overview

- Protocols and Standards
 - SIP
 - H.323
 - MGCP
 - Megaco
 - Cisco CCP

VoIP Applications

WLAN Standards & Protocols Overview

- Spread Spectrum
 - DSSS
 - FHSS
 - 802.11a, b and g
 - HYPERLAN
 - 802.16
 - WiMAX
 - MMDS
 - WLL
- WLAN Hot Spot Provider Value Chain

VoWiFi Implementation Issues

- Bandwidth – the critical resource
- VoIP Coding Algorithms
 - PCM
 - ADPCM
 - LC-CELP
 - CS-ACELP
 - ACELP
 - Others
- VoWiFi User's Quality of Experience
 - Spectrum constraints
 - Latency issues
 - RF technology impact on bandwidth
 - &Bandwidth Management for QoS and SLAs
 - Network Policy Management Techniques
 - IP Class & Marking – end-to-end QoS

VoWiFi Implementation Overview

- RF Coverage – Who's on Net
- RF Site Surveys
- VoWiFi planning techniques
- Network Audits
- Performance Monitoring

VoWiFi Security

- Radio Frequency Interception/RF Hacking
- Jamming issues
- Message Encryption Protocols
- Authentication Protocols
- Hardware / Software Security Techniques

VoIP / WLAN Commercial Profiles

- VoWLAN Equipment Supplier
- Profile of a VoIP/ WLAN Service Provider

VoWiFi Technologies to watch

- Smart antennas
- 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:** Buyers, Sellers and Implementers of VoIP over WiFi Products & Services.
- Prerequisites:** Basic knowledge of telephony and wireless LANs.
- Difficulty Rating:** 3 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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