

Outline for VoIP In One Day Class

FULL OUTLINE

What is VoIP?

- Comparing VoIP and Traditional Telephony
- The Voice over Packet "Family Tree"
- VoIP - Voice over IP
- IPT - IP Telephony
- C2P - Circuit to Packet
- Other VoP Technologies
- Quality Metrics / QoS
 - GOS
 - MOS
 - CMOS
- Drivers, Enablers, Speed Bumps and Show Stoppers
- VoIP Killer Apps
- VoIP Shortcomings

VoIP and 911

- Top 5 VoIP 911 Issues
- How does VoIP work with 911?

How Can VoIP Be Cost Justified?

- Enterprise Perspective
- Carrier Perspective
- Service Provider Perspective

Will Regulation Kill VoIP?

- State Regulatory Summary
- VoIP Regulatory Update for *YOUR STATE*
- US and Canada Regulatory Update
- Global Regulatory Update

How does the market feel about VoIP?

- Enterprise
- Residential

Broadband as an enabler for VoIP

Transmitting Voice Digitally

- PCM
- ADPCM
- LC-CELP
- CS-ACELP
- ACELP
- Others

Achieving QoS for VoIP

- Overprovisioning
- QoS Methods
 - Intserv, Diffserv
 - PVC Priority
 - MPLS
 - other methods
- Separate Networks / Layer 1 Convergence

How is VoIP Implemented?

- PC-to-PC
- PC-to-Phone / Phone-to-PC
- Phone-to-Phone
- VoIP over Cable Networks
- VoIP over WiFi Wireless LANs

VoIP Protocols

- H.323
- SIP
- Cisco Skinny
- ETSI TIPHON
- Megaco/H.248,
- MGCP
- TGCP
- RTP/RTCP/RTSP
- Protocol Comparisons
- Protocol Examples

Packet Voice Alternatives

- VoDSL
- VoATM
- VoFR
- Predicting VoIP's Future

Conclusion

"I am impressed with instructor's knowledge of telephone networks and history."

- Earl Marshall
9-1-1 Manager
South East Texas 911

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 Products & Services.
Prerequisites: Basic knowledge of the Internet and telephone systems..
Difficulty Rating: 3 out of 5 (!!!..).

PRINCIPAL PROGRAM DEVELOPER



James P. Cavanagh

James P. Cavanagh has worked closely with the top five telecom technologies of our time very early in their life cycles. He has been intimately involved with the engineering, sales support, marketing, design, installation and training for ATM, Frame Relay, IP, optical networking and xDSL since their early commercialization. Mr. Cavanagh has also been closely involved in network security, disaster recovery planning and infrastructure security since the early 1980s. Jim is able to combine his experience with creativity and a long, varied career to develop exceptionally effective solutions for his consulting clients as well as having a rich background for his teaching and writing. Jim is a former member of the ATM forum.

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