

FAEDS CONFERENCE: HANDS ON IP TELEPHONY COURSE

DESCRIPTION:

- Compare and contrast Cisco, 3Com, Mitel, Multitech, Nortel, Altigen, and of course Avaya. Instructor has certifications in all of these technologies and will clearly explain the differences, benefits, and deficiencies of each.
- Hands on training on three different systems, Mitel 3300 IP PBX, 3Com NBX, Multitech IP.
- Define some of the key benefits and deployments that K-20 can achieve from today's telecommunications products.
- Clearly define what it takes to support telephony over a WAN, over the Internet, over VPN, the necessary and appropriate QoS Technologies, and other connectivity options.
- Security Issues.

AUDIENCE: Technical Network Engineers and CIO's interested in Telecommunications options and in 2003/4. This training is hands on and technical, but also has easily read handouts and presentations for strategic planning.

NOTE: THIS IS A PRE-CONFERENCE TRAINING THAT REQUIRES YOU TO EITHER TO TRAVEL VERY EARLY MONDAY MORNING OR SUNDAY NIGHT AND GET A ROOM FOR SUNDAY. ALSO, STUDENTS SHOULD BRING LAPTOP TO PARTICIPATE IN HANDS-ON SESSIONS.

TIME: 9:00AM – 12:30PM, Oct. 27

PLACE: SAFETY HARBOR SPA, HARBOR ROOM

COURSE INSTRUCTOR: Elliot V. Raj

- 2000 Instructing Hours for Advanced Microsoft, UNIX, Security, and Telephony
- CISSP, MCSE, CCNA, CCDA, Cisco Voice Certified, Polycom IP Voice & Video Certified, 3Com Voice Certified, Mitel IP Voice Certified, 3Com Security Expert, Computer Associates Security Expert, WatchGuard Security Expert

EQUIPMENT LIST FOR TRAINING:

- Mitel 3300 ICP IP Based phone system
 - Many phones and technology to show and program
 - Students actually logon and program and tour the system
 - OPS Manager Server for managing the enterprise
- 3Com NBX 100 IP and Ethernet Phone System
 - Many phones and technology to show and program
 - Students actually logon and program and tour the system
- Multitech IP based modules, these integrate into existing PBX's
 - MVP 100 and MVP 200
 - Hooking them together and programming them
 - Students actually logon and program and tour the system
- Comparing these technologies to:
 - Cisco CallManager
 - Avaya

- Nortel
- Altigen
- Costs, features, setup time, management, and ongoing costs will all be compared

FULL COURSE DESCRIPTION:

Technical Session on Telecommunications in Wide Area Networks with several live working systems from several manufacturers. Learn all the very latest about each manufacturer from certified engineers with live demos and hands-on. This is a chance to cut through the marketing hype and see what happens when the rubber meets the road.

To allow for in-depth training, this session will have several high trained, skilled, and experienced WAN Engineers, with certifications from all major manufacturers in the IP Telephony space, and most networking and security certifications. Detailed handouts, training aids, and related material will be given to each participant.

- Several live working systems for hands-on training, comparing all systems
 - Setup and initial programming
 - Day-to-Day Maintenance
 - Phone programming and functions
 - What "software" phones are available
 - What VPN phones are available
 - System Chassis Design and Expansion Board Options
- Design Issues
 - Upgrade Systems or Retrofit?
 - QoS on my WAN
 - How do I implement the best QoS using what I have?
 - How are routers at providing QoS?
 - What are the leading QoS tools in the market?
 - What can I do besides buy more bandwidth?
 - Firewall issues
 - VPN issues
 - Should we use a private point-to-point network or it is possible to use an Internet VPN
 - What options do I have for roving/home users?
- Successful Designs for School Districts of 25 Schools and the benefits they derived.
- Security Issues will be discussed in detail by a CISSP (Certified Information Security Systems Professional) who is also certified by four major IP Telephony vendors as a top engineer.
- Questions will be taken, and one or more real world detailed examples using an attendees network as an example on how to apply all of the concepts to come up with a design that is easily managed, uses as much existing infrastructure as possible, the most cost effective solution, and other related issues.