Configuring & Maintaining
SmartNode 1k SmartWare VoIP Solutions

Type: SmartNode 1K Certification

Title: Configuring & Maintaining SmartNode 1k SmartWare VoIP Solutions

Description: Be ready to converge with the SmartNode 1K technical certification course. Based on the SmartWare™ Release 5.X operating system, this course provides the in-depth knowledge you need to install, configure and support the complete line of SmartNode™ 1k VoIP products for data, voice, and telephony applications. The course covers theory and implementation, including detailed training on SIP, TCP/IP, NAT, ACL, QOS, network planning, configuration, and troubleshooting. Hands-on activities cover network analysis, VoIP application assessment, and VoIP troubleshooting with live end-to-end calls with real SmartNode™ devices.

For detailed course content, see the agenda.

Duration: 3 Days. Typical schedule is 9:00 AM to 5:00 PM, Wednesday through Friday.

Equipment Required: Please bring a notebook with a mains power adapter, and appropriate note taking material.

Prerequisites: The student should have a good working knowledge of IP, LAN networking, and telephony technologies. For the hands-on lab work, each student is asked to bring a laptop PC equipped with an Ethernet LAN interface and a serial console port. To succeed in this course and pass the certification exam, you must possess substantial background knowledge and hands-on experience in IP networking protocols. Find out if you meet the pre-requisites: if you have not already done so, please take the pre-test now!

Who is it for? System, Support and Sales-Support Engineers who need to plan, configure, set-up applications, and install SmartNode™ devices in networks. This is a hands-on technical training class held in small groups (maximum of 8 participants per class).

What will I learn? The course covers VoIP network planning, installation, configuration and maintenance using Patton's SmartNode™ leading-edge IP QoS Routers and VoIP Gateways. You will acquire the tools and know-how to successfully work with the SmartNode™ products with a minimal time investment. The course introduces the commercial and technical benefits of SmartNode™ VoIP in an efficient manner and friendly environment.

Course Objectives Upon successful completion of the course, the student will be able to install, configure and maintain the Patton SmartNode™ product line in order to implement and troubleshoot VoIP applications.

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Agenda:

Day 1	8:45 AM Welcome 9:00 AM Training Start Overview, concepts and configuration basics • VoIP fundamentals and codec selection • VoIP Applications • Hardware and software features • Telnet, console, TFTP, SSH • General debug recommendations • Upgrading software and configurations • Basic network connectivity • Basic routing • DNS, DNS relay, and DynDNS • DHCP client and server
Day 2	Enhanced IP configuration and call routing • DHCP client and server • NAPT and ACL for security • Quality of service • Gateway SIP • Context CS overview • Call router interfaces • Call routing and number manipulation
Day 3	Enhanced call router and PSTN port configuration. Certification • Call routing and number manipulation • Tone provisioning • Port configuration • Certification exam: 1:00-5:00PM (4hours)