PATTON ELECTRONICS COMPANY

NETWORK ACCESS APPLICATIONS

TOPIC: E-Mail *and* Internet Access for Hotels and Multi-Dwelling Units

*Business travelers are demanding high-speed Internet access that is both local and reliable, the **Patton 2800 Remote Access Server** provides both— **without** requiring special hardware, software, or user configuration.*

The hospitality industry can realize a new source of revenue by providing e-mail and Internet access to road warriors. As e-mail and the Internet have grown into proven communication tools, travelers now access the Internet as the primary means to exchange information. Now there is an increased need for reliable high-speed access while on the road—especially in hotels.

Users are familiar with accessing the Internet through a dial-up modem and most still prefer to dial-up their ISPs while on the road. But the long-distance call to their home ISP is expensive and results in slow connections over noisy lines. Modem users also stay on-line longer and occupy PBX ports, which hotel managers dislike.

The **Patton 2800 Remote Access Server** (2800 RAS) solves both problems. It answers modem calls locally through the PBX and off-loads these data calls onto a high-speed Internet access line. Now all hotel guests, business center users, and hotel office staff have a solution for e-mail and high-speed Internet access. The Patton 2800 RAS creates an **"Internet-Ready"** hotel complete with e-mail, Internet, Intranet, and VPN access with minimal infrastructure investment.

Click-to-Connect

No configurations to alter. Use existing Dial-Up Networking client

No New Hardware

Nothing new to install. Nothing extra to configure

No Long Distance Bills

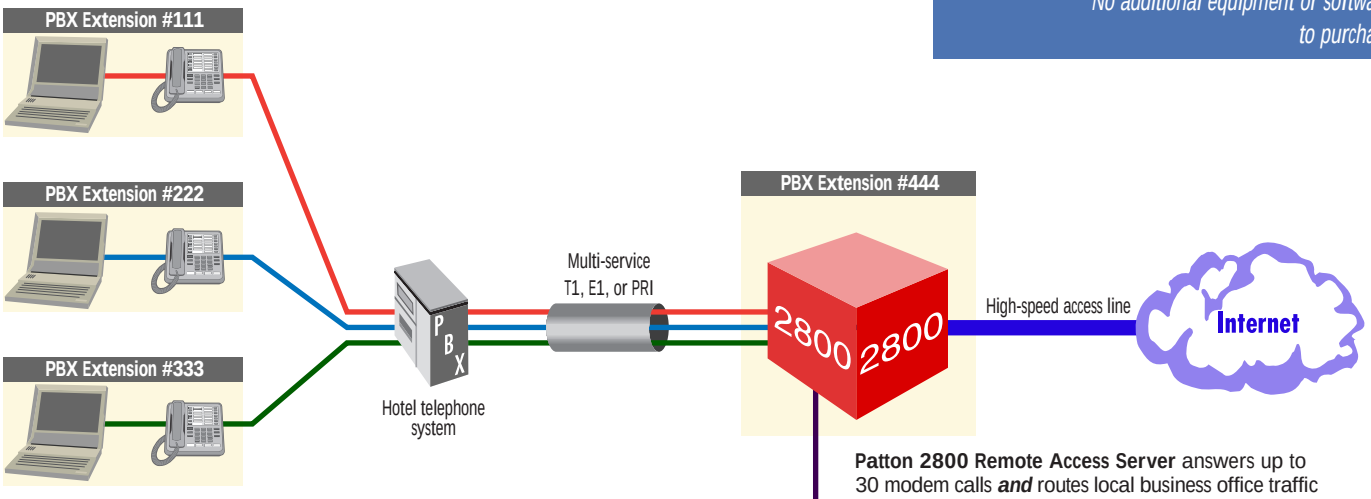
Modems calls never leave the hotel and never tie up in-coming lines

High Speed Connections

Maximum speed modem connections without disconnects from noisy lines

Single Box Solution

No additional equipment or software to purchase



Here's how it works...

A Guest connects laptop to room phone line

B Guest dials local PBX extension for RAS

C The guest's laptop is *locally* connected to the Internet without having to dial a line outside of the hotel.

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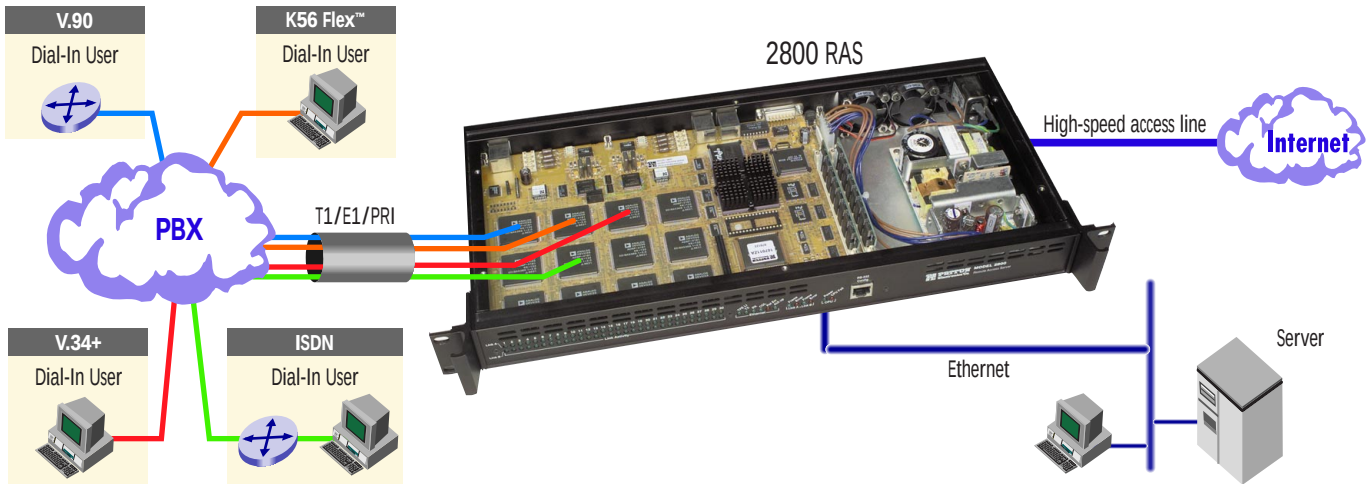
The 2800 RAS—which comes packaged in a single 1U-high chassis—answers calls from V.90, K56Flex™, ISDN, V.34+, and legacy modems. Modem calls are answered individually by software running on each DSP inside the 2800 RAS. Users are locally authenticated using PAP/CHAP or remotely using RADIUS.

Local Ethernet IP access is provided for always-on Internet/Intranet connectivity. Dial-up and dedicated traffic is routed onto the Frame Relay/PPP uplink to the local ISP. The 2800 RAS supports all the connectivity required by any Internet-Ready hotel. It's the *right* choice.



Patton 2800 RAS	Product Specifications
Modem modulations	V.90 • K56Flex™ • V.34 Annex 12 • V.34 • V.32bis • V.32 • V.23 • V.22 • V.22bis • V.21 • Bell 212A • Bell 202 • Bell 103 • EIA-PN-2330 • V.8 • V.8bis • Sync/async receiver/transmitter for V.14 • V.42/V.42bis error correction & compression.
PSTN signalling	E1 Primary Rate • E1 MFCR2 (R2) • T1 Primary • T1 Robbed bit with Loop/Ground Start or E&M Wink Start
Telecom certification	CTR-4 (Euro-ISDN) • INS1500 (Japan) • TSO14 (Australia) • NI-1 • Lucent 5ESS • NorTel DMS (USA)
Homologation received	CEX-168 • EN60950 • IEC950 • UL1950 [NRTL] • FCC Part 15A • FCC Part 68B • CS-03 • ACA TS038 • CTR-4
Management services	HTTP • SNMP • TELNET Dial-in and Ethernet or RS232 console port • SYSLOG client • Remote software upgrade via FTP • User configurable login prompts and banners • DHCP for IP address management and conservation
Authentication	RADIUS • PAP/CHAP • Username/Password and Static Users Database
Software upgrades	Achieved through Flash upgrades via FTP (upgrades available from www.patton.com)
Protocol services	TCP/IP suite with extensive protocol statistics • ICMP/TFTP/FTP/RLOGIN/TELNET • Ethernet ARP, Proxy ARP and RARP protocols • point-to-point protocol (PPP) • SLIP protocol • Van Jacobson TCP header compression PPP address and protocol compression • RADIUS authentication and accounting, with support for primary and secondary servers • RIP and RIPv2 dynamic route distribution • User configurable static routes • TCP clear connection
Frame Relay	LMI T1.617 Annex D • LMI Q.922 Annex A • Multiprotocol encapsulation via RFC 1490 • 32 PVCs • User configurable timeslots assignments • User static designation of far end IP address • Inverse ARP • RFC 1315 MIB support
Security	L2TP (Layer 2 Tunneling Protocol) • IPSec (IPSecurity) - DES, PPP PAP/CHAP • RADIUS (RFC 2138) • Packet Filtering

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Document 07MD10001-A

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FAQ'S & FACTS

TOPIC: E-Mail *and* Internet Access for Hotels and Multi-Dwelling Units

*Business travelers are demanding high-speed Internet access that is both local and reliable, the **Patton 2800 Remote Access Server** provides both— **without** requiring special hardware, software, or user configuration.*

Q: Will I need a router, modems, or a terminal server?

A: No, the 2800 RAS is a complete solution that includes the router on a RISC CPU, the modems on DSPs, and the terminal server software.

Q: How many users can I support on a single 2800 RAS?

A: A 30-DSP 2800 can support 30 simultaneous callers. Typical user-to-modem ratios are between 10:1 to 20:1, which means a single 2800 RAS can easily support 300 to 600 guests. At the same time, the 2800 RAS can also support several hundred Ethernet LAN users. As usage increases, additional 2800s can be added while keeping your current investment and operation intact.

Q: How should I manage user accounts?

A: Accounts can be set up many different ways. The need for individual user accounts can be eliminated because the PBX handles the billing on a per-room basis. Should user authentication be desired, the 2800 RAS supports local authentication via its internal static user database or remote authentication through RADIUS.

Q: What PBX hardware will I need?

A: The 2800 RAS requires just one T1, E1, or PRI trunk line. The 2800 RAS supports a wide range of telecomm signaling standards including T1 Robbed Bit-Ground Start/Loop Start/E&M Immediate start; E1 CAS (MFCR2); and T1/E1 ISDN PRI (Q.931). Complete T1/E1/PRI signaling support is included with every 2800 RAS and is software selectable.

Q: Will the 2800 RAS work with a digital PBX?

A: Yes, the connection between the 2800 RAS and the PBX is either a digital T1, E1, or PRI line. For rooms with digital phones which do not support analog telephone connections users may require additional telephone facilities.

Q: Will I still be able to dial out from my room to my ISP or to other modems?

A: Yes, the phone line in the room remains unchanged. Calls can be made and received to any telephone number as before.

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FAQ'S & FACTS

TOPIC: E-Mail *and* Internet Access for Hotels and Multi-Dwelling Units (continued)

Q: Why would I use this hotel service rather than a local ISP account?

A: There are many benefits from using the 2800 RAS instead a local or long-distance ISP. Whereas on noisy lines most user can only connect at 40 kbps or worse, by connecting to a 2800 RAS within the hotel, you can achieve close to the theoretical maximum modem speeds. One result of such super-clean connections is that modems do not drop calls in the middle of a download. The cost savings and greater reliability, when compared to making long-distance calls, enable guests to download large files without worrying about high charges. Even browsing the web will be significantly faster.

Q: Will I still be able to access my e-mail using the hotel's system?

A: Yes. Because the Internet is a global system, your e-mail (and web browsing) is available to you regardless of where in the world you are or how you are connected.

Q: Will I use the 2800 RAS even if I already have a high speed Internet connection?

A: Yes, the 2800 RAS seemlessly integrates into existing IP networks through the Ethernet port.

Q: Will I have to install additional wiring or phone ports?

A: No, the existing phone lines are sufficient. No additional hardware or wiring needs to be installed, and no modifications or alterations to the existing room phone lines or services are needed.

Q: Will there be additional software or hardware that I will have to load or configure on my laptop computer?

A: No. There is no new hardware or software required. The guest uses his or her laptop computer and modem in exactly the same way as if he or she were calling an ISP. But instead of making a long distance call to an ISP, he or she will call an extension number in the hotel that will connect the guest to the 2800 RAS.

Q: How is each room billed?

A: Room billing is done automatically through the hotel PBX in much the same way outside telephone calls are currently billed. The hotel billing system automatically assigns an Internet Service Charge (determined by the hotel.)

Q: Do I need to have a local ISP account to use the hotel service?

A: No. The hotel, in effect, is acting as an ISP. No an additional accounts are necessary.

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