

USR8200 FIREWALL/VPN/NAS

Powerful and simple network protection, secure access, shared storage and shared printing



The Need

Information: Securing, Sharing, Storing

Typically organizations have had to install a variety of products to facilitate these three critical requirements for their data. Firewalls, VPN services, routers, file and print servers were all discrete components of the solution . . . until now.

The U.S. Robotics USR8200 Firewall/VPN/NAS was developed as an integrated solution that provides all of those capabilities and more.

This paper outlines how the USR8200 Firewall/VPN/NAS appliance secures your network and information while providing centralized storage and controlled information distribution.

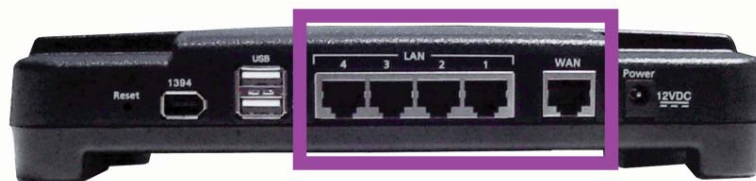
USR8200 Firewall/VPN/NAS – Practical Applications

Designed to be an efficient solution to a variety of data connectivity needs, the USR8200 Firewall/VPN/NAS delivers a bundle of capabilities unique in the industry. To provide a real world understanding how this product would satisfy a variety of needs, the applications will be applied to the hypothetical Max's Realty, a residential and commercial property sales and management firm.

Rock-Solid Firewall

Challenge: Digital photography and contact management applications have changed the way realtors do business. The ability to quickly capture a property's key attributes, share the photos broadly and share key contact status and history shortens the sales cycle and improves profits. Max's Realty installed broadband service to provide faster access to digital multiple listings, but they limited it to one dedicated PC because of concerns with security and staff wasting time surfing inappropriate web sites.

Answer: The USR8200 Firewall/VPN/NAS provides the **secure Internet sharing** capability they are looking for. Connect the broadband modem (cable or DSL) to the WAN port, and immediately you can share the connection. With the addition of Ethernet switches or a wireless Access Point, it can connect up to 253 PCs and other Ethernet devices.



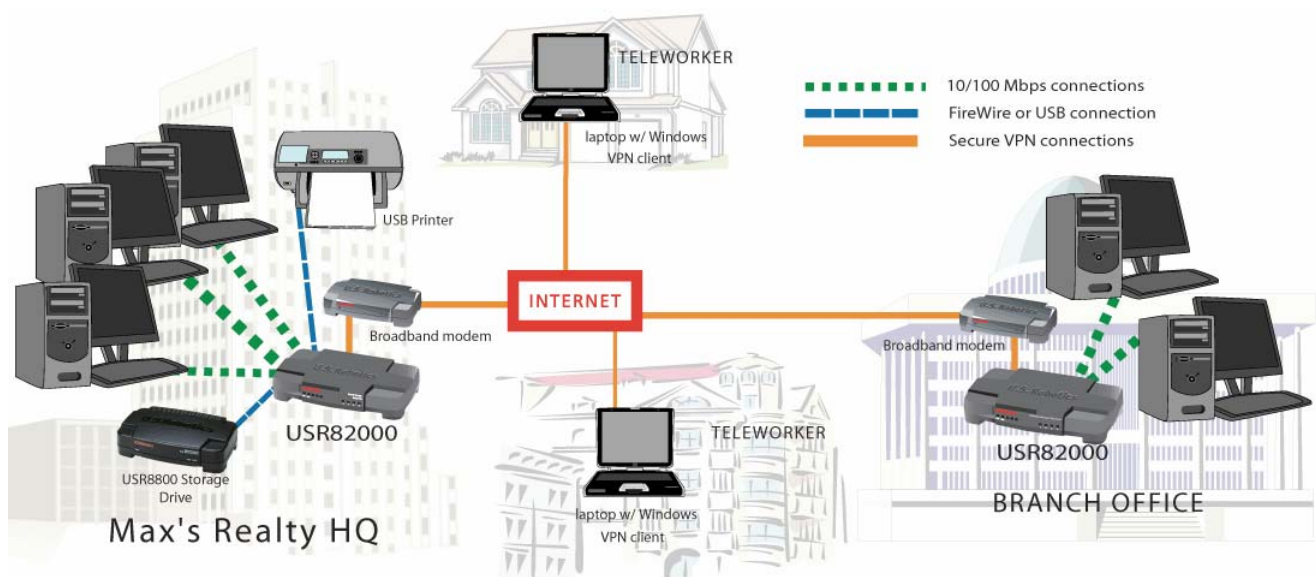
This **high-performance Stateful Packet Inspection (SPI) firewall** has three standard settings (maximum, typical and minimum) to simplify setup, but has a powerful array of tools for customizing settings to meet specific requirements. It includes Application Level Gateways that can be set to allow specific applications access (like AIM) and provides protection against Denial of Service and Distributed Denial of Service attacks.

Implications: Max's Realty is now sharing a broadband connection with appropriate restrictions and powerful security. And with **no user license requirements**, this is an extremely cost-effective solution.

Virtual Private Networking (VPN)

Challenge: Max's Realty implemented broadband in their two sales offices, primarily to facilitate rapid downloading (and uploading) of on-line property listings, complete with digital photos and 3D walkthroughs. They have now begun to use scanning technology to file and retrieve legal documents, and want to use the Internet to move those documents between offices and even allow their power brokers access from home and on the road. Secure remote connections have become a major concern.

Answer: Implementing a **Virtual Private Network (VPN)** will provide Max's Realty with secure, encrypted communications between all locations. The USR8200 Firewall/VPN/NAS supports a wide variety of secure VPN solutions, including industry standard IPSec and PPTP.

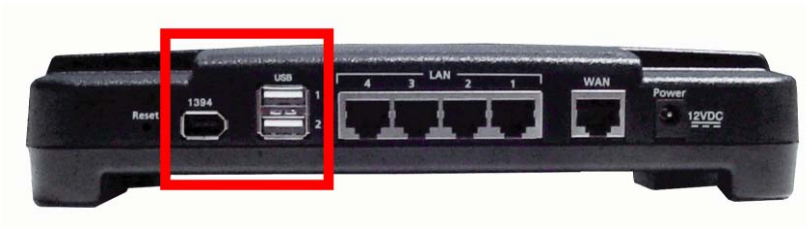


Implications: For no additional expense Max's Realty can implement secured connections using their existing Internet connectivity. Max's road warriors can also VPN into the network from wireless "hot spots" (coffee shops, airports and other locations that provide wireless Internet connections) assuring the all important data is accessible when and where needed. Not only do they have an industrial strength, secured branch connectivity solution, but also industry standard IPSec or PPTP security for their Teleworker solution. With **support for up to 253 IPSec tunnels**, this is a solution that can grow as their business grows.

Network Attached Storage (NAS)

Challenge: Realizing that files and data are most useful in an organization when they are accessible on a network, many organizations have begun to take advantage of the inherent capabilities of their operating systems to share hard drives. This has limitations in terms of security, accessibility (the machines must be left on for others to access) and expandability. With the need to store and provide access to an ever-growing number of digital photos and even digital walkthroughs of the properties they manage, Max's Realty was nearing a decision to install a dedicated file server.

Answer: The USR8200 Firewall/VPN/NAS is an extremely efficient storage solution. With an **Integrated File/FTP Server** and three ports for connecting hard drives (USB 2.0 (2) and FireWire (1)) central server functionality can be installed in minutes. PCs will easily recognize the drive(s) on the network or even



externally by implementing the FTP server capability.

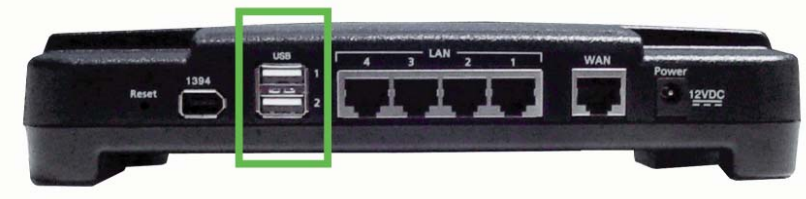
U.S. Robotics also offers two Storage Drives (120 GB and 250 GB) that conveniently stack with the router for an elegant, space saving solution. The storage drives feature both USB 2.0 and FireWire ports allowing you to choose your connection method.

FireWire connections allow you to daisy chain, or serially connect multiple drives to meet your expansion needs well into the future. You can also add a USB 2.0 hub to support three or more USB drives. And each of the drives can be assigned user rights specific to individual access requirements.

Implications: Centralized, shared storage is available to all authorized employees at a fraction of the cost of a dedicated server solution. Storage capacity is now virtually unlimited and can be added incrementally without taking a server out of service.

Sharing Printer Resources

Challenge: One way Max's Realty is enhancing customer service and reducing cost is by developing property sell sheets that include relevant details along with full color photographs of property highlights. These are facilitated by a high speed color laser printer. The downside is that only the administrative assistant can produce these sheets on demand since the printer is attached to her work station. This creates log jams and is impacting her overall efficiency.



Answer: The USR8200 Firewall/VPN/NAS includes an Integrated Print Server functionality that allows USB printers, attached to the available USB 2.0 ports, to be shared among all networked users. This includes remote workers that can send print requests to the printer and then pick them up when they get back to the office.

Implications: The administrative assistant is now freed from the responsibility of managing all the color printing for each sales representative and can focus on her other responsibilities. This allows more efficient use of the printer resource for the entire office.

Web Filtering powered by SurfControl

Challenge: While broadband Internet access available to all employees has been an excellent resource for speedy access to on-line multiple listing services, research, mortgage and financial information, directions/maps, and a host of other types of information, it can be an impediment to managing an effective realty agency. Max's Realty needed a way to restrict web use to relevant sites during business hours. Additionally, even during off hours they wanted to restrict certain types of web sites from being accessed by company owned computers

Answer: U.S. Robotics has partnered with SurfControl, a leading provider of Web Filtering technology, and integrated their technology in the USR8200. With SurfControl, Max's Realty can set up web surfing restrictions that optimize their employee's web use. Importantly, time of day controls provide them with the flexibility to allow wider surfing access during non-business hours.



Implications: The management team at Max's Realty has one less concern. There is no need to actively manage web access (no looking over shoulders) as they are assured that only appropriate use is occurring. This also alleviates the business threats that can arise from employees surfing inappropriate web sites, like:

- Security Threats: Viruses and spyware can enter your network through web-based e-mail, file downloads, etc.
- Legal Threats: Inappropriate content can lead to gender, minority or religious harassment and discrimination. Illegally distributed copyrighted material (music, movies, etc.) can also be bad for business.
- Productivity Threats: There is a massive amount of frivolous entertainment available on the web.
- Network Threats: Downloading MP3s or movies can slow down Internet performance for everyone. Just logging onto the wrong website can cause network crashes.

Bottom Line

The U.S. Robotics USR8200 Firewall/VPN/NAS provides an enormous amount of critical functionality to customers' networks providing a new price/performance paradigm – security, convenience and flexibility in a product that solves real customer problems.