

DrayTek

Solution Case Study

Product : DrayTek Vigor 3300V Routers
Client : McConechy's Tyre & Exhaust
Partner : Misco, Greenock
Project : Robust Inter-Branch VPN & VoIP



McCONECHY'S
TYRE & EXHAUST CENTRES
www.mcconechys.co.uk

MISCO
www.misco.co.uk

"We required a product with a good user interface that came with bulletproof reliability and excellent security features. The DrayTek solution met our requirements perfectly and we particularly liked the ability of the DrayTek product to handle advanced NAT configurations."

Ryan Johnson, IT Manager
McConechy's Tyre & Exhaust Centre

About the Client

McConechy's Tyre & Exhaust Centre operate from 54 locations across Scotland and the North of England, providing consumer and business customers with the products and services to keep their vehicles running, safely, economically and legally.

The Requirements

McConechy's head office is based in Ayr and the requirement was for a multi WAN router with firewall and load balancing capabilities to provide connectivity to their 50+ remote sites (branches) around Scotland and the North of England.

The main objectives for the project were as the follows:

- | Provide access for remote branches to access head-office software applications
- | Maximum reliability to ensure that POS (Point-of-Sale) transactions can be processed
- | Provide telephone connectivity between all remote offices and the Head Office for voice calls.
- | URL Filter to control staff access to the Internet
- | The ability to handle port-redirection for Advanced NAT
- | An Intuitive and effective user interface to minimise the training requirement of IT staff
- | Load balancing and WAN failover capability to provide resiliency and excellent WAN performance

The Solution

McConechy's contacted Misco, who recommended the DrayTek Vigor3300V router as meeting all of the criteria identified.

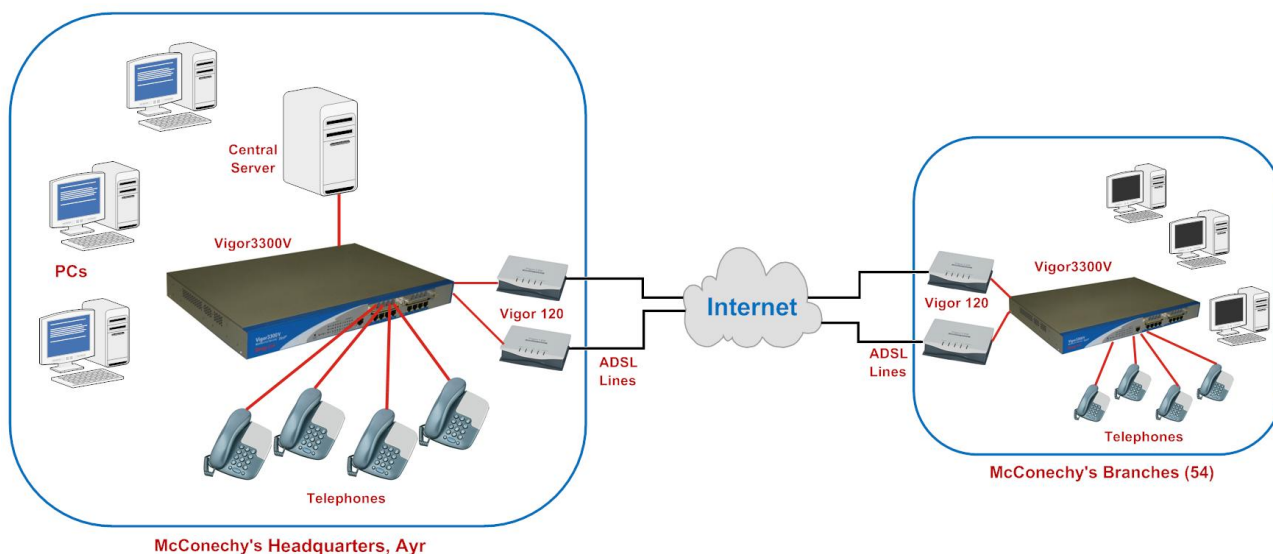
McConechy's deployed one Vigor 3300V at their head office and connected it to 2 different ISP's (Internet Service Providers) to provide redundancy (i.e. connectivity in case of one ISP failing). The dual-ISP's with the Vigor 3300V's load-balancing capability can then make the most efficient use of the available bandwidth.

McConechy's then rolled out a Vigor 3300V at each of their 54 branches and connected each to the Internet via ADSL. Each Vigor 3300V then created a secure VPN tunnel back to head office. This encrypted VPN tunnel can then carry all data securely between branch and head office.

McConechy's enabled the VOIP feature on the Vigor 3300V to provide telephony connections between their HQ and remote locations. This allows free telephone calls between the sites, which reduces call costs and line rentals.

"The Vigor 3300V has given us confidence in our WAN resilience. The VoIP feature has helped us to reduce our telephony costs by 28%, Couple this with the increase in staff productivity resulting from the Web Filtering features on the DrayTeks which allows us to control what web sites staff can see and when they see them, we have made significant cost savings."

McConechy's - Network Topology (Simplified)



A Vigor 3300V was installed at McConechy's HQ in Ayr together with Vigor 120 ADSL modems to provide the ADSL connectivity. Two different ISPs and ADSL lines were used in order to provide redundancy in case of one IPS or line failing. The Vigor 3300V at HQ acts as the central VPN concentrator for all of the branches to connect into. At each of the 54 branches, the same setup is installed. A secure VPN tunnel is created between every branch and HQ in order to have access to the central records and systems. HQ can also access network resources within each branch. The Vigor 3300V's are fitted with VoIP expansion cards, giving four phone ports. each branch and the HQ therefore can call each other free of charge across the Internet, saving on call and line rental charges at all locations.

About DrayTek Corp.

DrayTek Corp. was established in 1997 with a mission to design and build premium networking products to help business make their most of the online connectivity. DrayTek's product lines range from enterprise-level firewall Security, VPN facilities for teleworking and branch-linking, versatile xDSL CPE, Switching, Voice-over-IP and wireless solutions:

- I Complete range of WAN Security/Routing products
- I Headquarters, Taipei, Taiwan, ROC
- I Specialising in innovative networking products
- I Worldwide Distribution and offices
- I Listed on Taiwanese Stock Exchange 2004
- I 180 employees worldwide, 45% R&D
- I ISO 9001 Certified



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