Software

Failover & Failback Technology

Ensure business continuity through enterprise-level redundancy and recovery features

Introduction

The high-end redundancy features of Dell SonicWALL E-Class Network Security Appliance (NSA), NSA and TZ Series appliances provide small-, mid- and large-size organizations with business continuity and disaster recovery at levels of reliability usually reserved for larger enterprises. Advanced features include active-passive failover for distributing or load sharing outbound WAN traffic and hardware failover for automatically activating a passive appliance to assume responsibility for forwarding traffic. Failover even extends to the VPN, allowing remote branches to connect to a secondary gateway if the primary gateway is unavailable.

Business continuity

Business continuity is ensured through Dell SonicWALL WAN redundancy features, hardware failover and load balancing. With six configurable Ethernet interfaces, the NSA Series is ideally suited for complex networks requiring a higher level of business continuity features.

WAN ISP failover and load balancing

One of the user-assigned ports can be designated as a secondary WAN port, ensuring highly reliable network connectivity and robust performance. This secondary WAN port can be configured in active-passive failover mode, providing a highly efficient method for distributing or load sharing outbound WAN traffic. Load balancing is available on all the NSA Series and TZ Series appliances.

Automated failover and failback

Failover and failback technologies are integrated into TZ, NSA, E-Class NSA Series appliances. These technologies are designed to ensure continuous uptime for IPSec VPN tunnels by automatically failing over to an alternate WAN connection should the broadband connection fail. Once the broadband is re-established, the appliance fails back to the original WAN connection, providing the best connection speed possible.

Provide small-, mid- and large-size organizations with business continuity and disaster recovery at levels of reliability usually reserved for larger enterprises.

Hardware failover

When in hardware failover mode, if the active unit fails, the passive unit will automatically detect and assume responsibility for forwarding traffic for a greater level of reliability and redundancy.

VPN Gateway failover

The Dell SonicWALL appliance also provides support for remote/branch offices to seamlessly establish a VPN connection to a secondary gateway at the corporate headquarters, should the connection to the primary gateway be terminated. This allows for continuous uptime.

3G/4G Wireless Broadband Networking

By leveraging recent advances in 3G/4G wireless broadband technologies, Dell SonicWALL firewall appliances enable organizations to use the Internet even in locations where wired broadband access is unavailable or requires time-consuming installation and provisioning. This allows businesses to establish high-speed access rapidly for seasonal kiosks, mobile point-of-sale stations, portable ATM machines, disaster recovery networks, construction sites and more—as either a backup to a wired line or as a primary Internet connection.

Alternative to wired broadband

Where wired connectivity is unavailable, wireless offers an efficient alternative, but to date, wireless speed has always been an issue. The most common wireless alternatives are dial-up and satellite. While satellite may offer some speed advantages, it tends to be quite costly. Dial-up, on the other hand, is inexpensive but notoriously slow. In wireless environments such as retail POS applications where speed is critical, 3G/4G wireless broadband is the only real solution.

Management of your 3G/4G wireless network

Your 3G/4G wireless broadband network, as implemented through select Dell SonicWALL appliances, can be managed through Dell SonicWALL's Global Management System (GMS) along with the rest of the network. All nodes on your wireless and wired network can be centrally managed and configured through an easy-to-use central interface.

Broad support

Establishing a secure connection is always ensured with a platform that integrates support for numerous USB-based 3G/4G devices. Additionally, broadband coverage is available almost anywhere in the world, where GSM-based 2G and 3G networks are supported. The latest version of SonicOS firmware provides support for a wide variety of PC cards, USB devices and wireless service providers.

For More Information

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