

HIGH AVAILABILITY MODULE

Secure Virtual Network Architecture

deployments by allowing customers to create clusters of redundant gateways. In the event that a primary gateway fails, all connections are re-directed to a designated backup.

The Challenge:

As organizations increasingly rely on the Internet and VPNs (virtual private networks) to support mission critical business processes, the costs associated with losing connectivity increase dramatically. Even a momentary failure of a corporate VPN or firewall gateway can interrupt high-value transactions resulting in lost revenues, dissatisfied customers, and reduced productivity. Today's e-business must guarantee highly available and uninterrupted access to network resources.

Transparent VPN Fail-Over

The High Availability Module maintains all VPN tunnel connections during a fail-over. If a primary gateway becomes unavailable, all VPN sessions continue seamlessly without the need for users to re-connect and re-authenticate. Users will not even notice that an alternate gateway has taken over. In addition, high value business transactions and large file transfers continue intact without the need to restart.

The Solution:

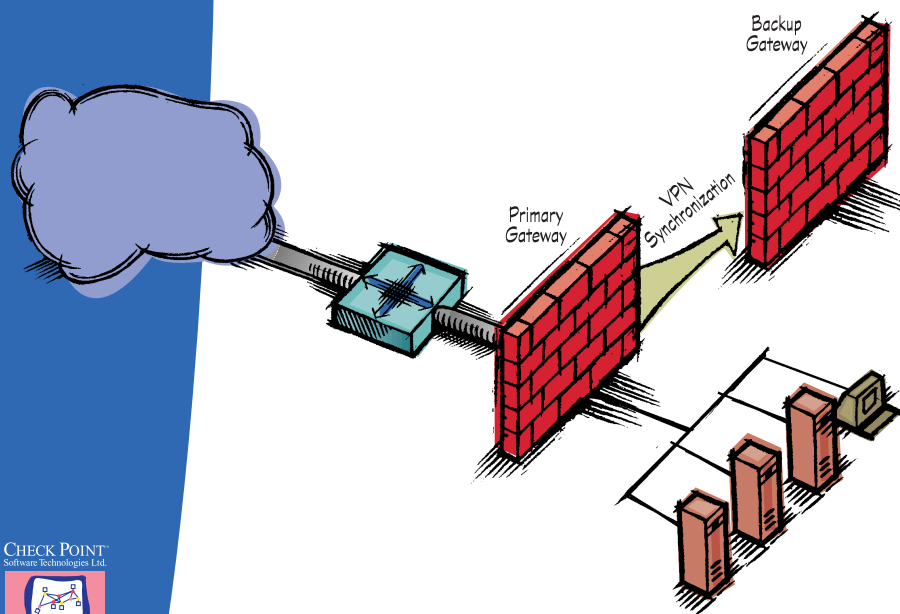
Check Point Software Technologies addresses the need for fully fault tolerant, virtual private networking and firewall gateways with its High Availability Module. The module delivers seamless fail-over for mission critical VPN-1™ and FireWall-1®

Product Features

- Transparent fail-over of VPN and firewall connections
- Tight integration with VPN-1 and FireWall-1 management tools
- Programmable system health monitor
- Automatic recovery of gateway cluster members

Product Benefits

- Provides continuous network availability for customers, employees, and partners
- Ensures that important VPN sessions are not interrupted during fail-over
- Simplifies deployment and management
- Detects and responds to a range of gateway health problems
- Enables gateway maintenance without service disruption



The High Availability Module provides seamless fail-over for mission-critical VPN-1 and FireWall-1 deployments.

CHECK POINT
Software Technologies Ltd.



We Secure the Internet.



Tight Integration

High availability properties are configured with the Check Point Management Client.

Integrated Management

All High Availability set-up parameters are configured directly from the Check Point Management Client and stored on the Check Point Management Server. If a fail-over occurs, the event is logged to Check Point's log file and an alert can be automatically sent to an administrator via email, SNMP, page, etc. In addition, the status of all gateway clusters can be viewed in real time using the Check Point Status viewer. The end result is a powerful solution that is simple to deploy and requires minimal ongoing management overhead.

Auto Recovery/Hot Swap

Gateways can be removed and added to a functioning cluster without reconfiguring or restarting the cluster. For example, if a failure occurs as a result of an operating system problem, the failed machine may automatically restart (if the operating system has been configured for automatic reboot) and

re-enter the cluster without intervention from the administrator. This feature also enables maintenance of cluster machines during normal business hours with no service disruption.

Health Check

The High Availability Module incorporates a programmable health check that continuously monitors gateway processes to identify potential problems. In addition to detecting VPN-1/FireWall-1 failures, it can determine system health by communicating with third-party applications. For example, a disk space agent may notify the Health Check if the amount of available disk space reaches a pre-defined minimum. The system can then respond by forcing a fail-over to a backup gateway. The Health Monitor enables a proactive response to a range of problems; which although not representing catastrophic failures, can effect overall system performance and reliability.

Specifications

Operating Systems <i>Enforcement Points & Management Server</i>	Microsoft Windows NT 4.0 Solaris 2.6 Solaris 7 (32-bit mode) Red Hat Linux 6.1
Management Client	Windows 95, 98 Windows NT 4.0 Solaris 2.6 Solaris 7 (32-bit mode)
VPN Protocol Support	IPSec FWZ
Network Interface	Ethernet Fast Ethernet
Supported VPN-1 or FireWall-1 Versions	Version 4.1, SP1 or higher
Media	CD ROM

Secure Virtual Network Architecture

All Check Point Software products are built on our Secure Virtual Network (SVN) Architecture to provide secure and seamless connectivity of users, networks, systems, and applications across Internet, intranet, and extranet environments. Check Point Software's SVN solutions are available from industry-leading resellers and service providers worldwide.

For more information, please go to: www.checkpoint.com