

# ClusterXL

Software-based high availability and load sharing

## YOUR CHALLENGE

High availability and load sharing are vital requirements for any business-critical firewall or VPN deployment. However, setup and administration can be a complex, time-consuming task. Additional hardware deployment, software configuration, and monitoring can combine to significantly increase the total cost of ownership.

## OUR SOLUTION

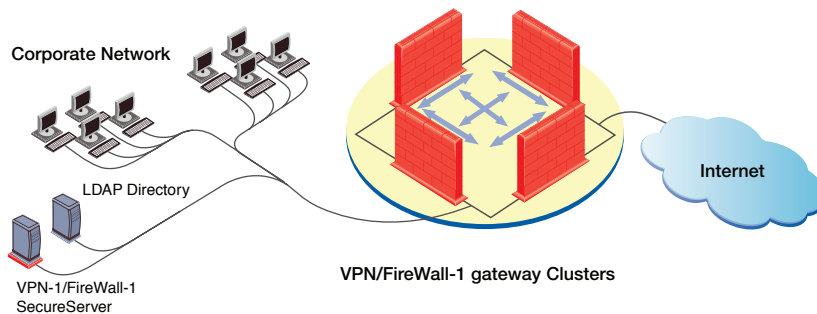
ClusterXL® is a software-based high availability and load sharing solution for Check Point gateways. It enables the distribution of traffic among multiple, redundant gateways so that computing capacity may be combined to increase total throughput. In the event that an individual gateway becomes unreachable, all connections are redirected without interruption to a backup. Tight integration with Check Point management and enforcement points ensures that ClusterXL deployment is simple.

### Resilient security

ClusterXL maintains resilient security for all connections during failover, including VPN connections. If a primary gateway becomes unavailable, all sessions continue securely without interruption. Users will have to neither reconnect and reauthenticate nor notice that an alternate gateway has taken over.

### Load sharing

With load sharing, ClusterXL can expand the performance capability of VPNs by distributing traffic between multiple gateways. Up to five gateways may be added to a cluster.



ClusterXL provides seamless failover and load sharing for mission-critical Check Point gateway deployments.

## PRODUCT DESCRIPTION

ClusterXL® provides high availability and load sharing to keep businesses running by distributing traffic among clusters of redundant gateways so that the computing capacity of multiple machines may be combined to increase total throughput.

## PRODUCT FEATURES

- Transparent failover of all connections
- Software-based load sharing
- Tight integration with Check Point gateways

## PRODUCT BENEFITS

- Provides resilient security
- Does not require additional hardware
- Simplifies deployment and administration



The NGX platform delivers a unified security architecture for Check Point.

## Integrated management

ClusterXL setup parameters are configured directly from the Check Point SmartDashboard™. If a failover occurs, the event is logged, and an alert can be automatically sent to an administrator via email, SNMP, text message, and more. The status of all gateway clusters can be viewed in real-time using Check Point SmartView Status™. The result is a powerful, integrated management solution that is simple to deploy and requires minimal ongoing overhead.

## Auto recovery and hot swap

Gateways may be added to or removed from a functioning cluster without reconfiguring or restarting the cluster. For example, if a failure occurs because of an operating system problem, the failed machine could automatically restart (if the operating system has been configured for automatic reboot) and reenter the cluster without administrator intervention. This enables maintenance of cluster machines during normal business hours with no service disruption.

## Health Check

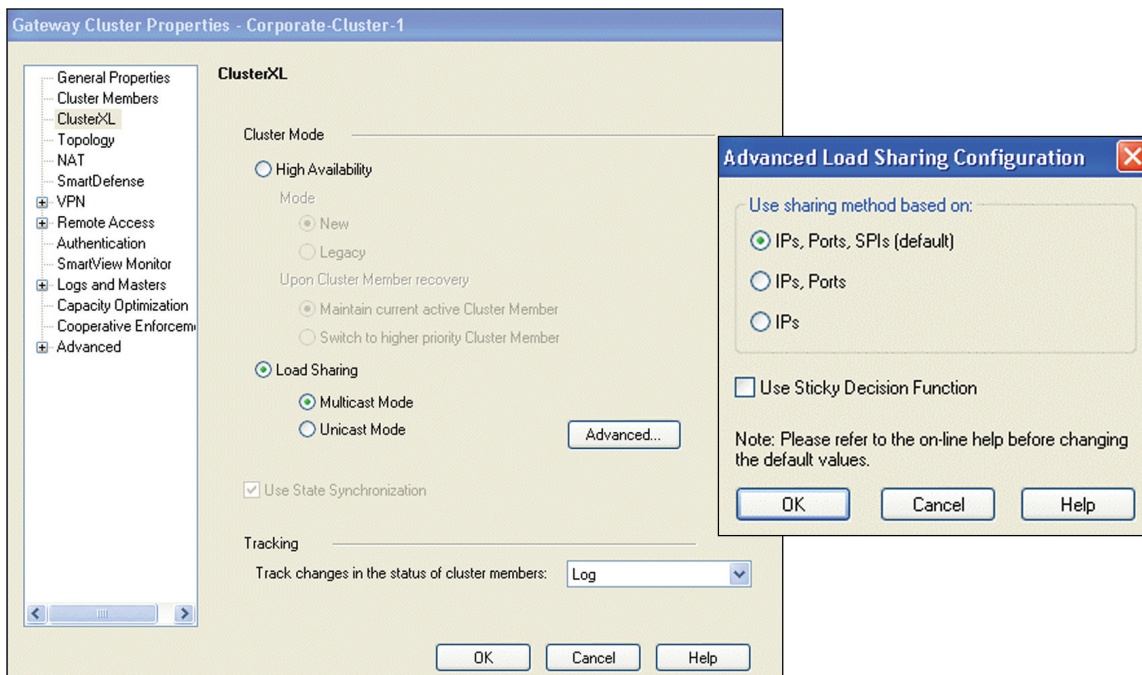
ClusterXL incorporates a programmable Health Check that continuously monitors gateway processes. It enables a proactive response to a range of problems that may not represent catastrophic failures, but can affect overall system performance and reliability.

In addition to detecting VPN-1®/FireWall-1® failures, Health Check can determine system condition by communicating with third-party applications. For example, a disk space agent may notify Health Check if the amount of available disk space reaches a predefined minimum. The system can then respond by forcing a failover to a backup gateway.

## SYSTEM REQUIREMENTS

### VPN-1 gateways

Check Point SecurePlatform™, Nokia IPSO 4.1-4.2, Red Hat Enterprise Linux 3.0 Kernel 2.4.21, Solaris 8/9/10, Windows Server 2003 (SP1-2), Windows 2000 Advanced Server (SP1-4), Windows 2000 Server (SP 1-4)



Deployment and ongoing administration of ClusterXL is simplified through tight integration with Check Point Smart Management Architecture.

©2003–2007 Check Point Software Technologies Ltd. All rights reserved. Check Point, AlertAdvisor, Application Intelligence, Check Point Express, Check Point Express CI, the Check Point logo, ClusterXL, Confidence Indexing, ConnectControl, Connectra, Connectra Accelerator Card, Cooperative Enforcement, Cooperative Security Alliance, CoSa, DefenseNet, Dynamic Shielding Architecture, Eventia, Eventia Analyzer, Eventia Reporter, Eventia Suite, Firewall-1, Firewall-1 GX, Firewall-1 SecureServer, FloodGate-1, Hacker ID, Hybrid Detection Engine, IMsecure, INSPECT, INSPECTXL, Integrity, Integrity Clientless Security, Integrity SecureClient, InterSpect, IPS-1, IQ Engine, MailSafe, NG, NGX, Open Security Extension, OPSEC, OSFirewall, Policy Lifecycle Management, Provider-1, Safe@Home, Safe@Office, SecureClient, SecureClient Mobile, SecureKnowledge, SecurePlatform, SecurePlatform Pro, SecuRemote, SecureServer, SecureUpdate, SecureXL, SecureXL Turbocard, Sentivist, SiteManager-1, SmartCenter, SmartCenter Express, SmartCenter Power, SmartCenter Pro, SmartCenter UTM, SmartConsole, SmartDashboard, SmartDefense, SmartDefense Advisor, Smarter Security, SmartLSM, SmartMap, SmartPortal, SmartUpdate, SmartView, SmartView Monitor, SmartView Reporter, SmartView Status, SmartViewTracker, SofaWare, SSL Network Extender, Stateful Clustering, TrueVector, Turbocard, UAM, UserAuthority, User-to-Address Mapping, VPN-1, VPN-1 Accelerator Card, VPN-1 Edge, VPN-1 Express, VPN-1 Express CI, VPN-1 Power, VPN-1 Power VSX, VPN-1 Pro, VPN-1 SecureClient, VPN-1 SecureServer, VPN-1 UTM, VPN-1 UTM Edge, VPN-1 VSX, Web Intelligence, ZoneAlarm, ZoneAlarm Anti-Spyware, ZoneAlarm Antivirus, ZoneAlarm Internet Security Suite, ZoneAlarm Pro, ZoneAlarm Secure Wireless Router, Zone Labs, and the Zone Labs logo are trademarks or registered trademarks of Check Point Software Technologies Ltd. or its affiliates. ZoneAlarm is a Check Point Software Technologies, Inc. Company. All other product names mentioned herein are trademarks or registered trademarks of their respective owners. The products described in this document are protected by U.S. Patent No. 5,606,668, 5,835,726, 6,496,935, 6,873,988, and 6,850,943 and may be protected by other U.S. Patents, foreign patents, or pending applications.

February 16, 2007 P/N 502343

### Worldwide Headquarters

3A Jabotinsky Street, 24th Floor  
Ramat Gan 52520, Israel  
Tel: 972-3-753-4555  
Fax: 972-3-575-9256  
Email: info@checkpoint.com

### U.S. Headquarters

800 Bridge Parkway  
Redwood City, CA 94065  
Tel: 800-429-4391; 650-628-2000  
Fax: 650-654-4233  
www.checkpoint.com



Check Point  
SOFTWARE TECHNOLOGIES LTD.