



DATA SHEET

3Com® Embedded Firewall for the 3CR990 NICs Family

Secure, tamper-resistant connections for your enterprise LAN

Key Benefits

3Com® Embedded Firewall puts LAN security right on your server and desktop machines—the most likely point of entry for would-be hackers. These policy-enforcing, distributed firewalls protect your network from

inside attacks, something perimeter firewalls can't do. And, because the capabilities are embedded in the NIC, it delivers what software applications can't—tamper- and bypass-resistant data protection.

Protection Against "Inside Jobs"

A joint Computer Security Institute/FBI survey (Computer Crime and Security Survey, 2000) reveals the unpleasant truth—most security breaches come from users with inside access to the company LAN. 3Com Embedded Firewall controls user access and filters all traffic regardless of whether it comes from inside your corporate LAN or from the Internet. Your authorized business partners, onsite employees, and remote users have easy access to the data they need, and nothing else.

Tamper-Resistant Reliability

3Com Embedded Firewall is distributed security, integrated into the NIC hardware. Because it's installed at each machine, right in the network link, a hostile user can't bypass it. And, because it's hardware-based, 3Com Embedded Firewall works independently of the host operating system (OS). Software-based security programs are written to protect a PC's OS. Unfortunately, software is inherently susceptible to decoding or "cracking." Our operating system independent Embedded Firewall offers a new level of hack-resistance. And, because it doesn't need to interact with the host OS, it won't affect other security applications that do.

Centralized Management

The 3Com Embedded Firewall Policy Server helps your IT managers create and define policies that enforce the level of security you need, and applies security where you need it. Centrally managed policies streamline packet filtering and auditing chores. They also thwart sniffing and spoofing attacks. And central control helps keep operating costs down because your security is independent of the host environment or user activity.

The Embedded Firewall Management Console includes one remote interface—Microsoft Management Console—giving you comprehensive control coupled with anytime, anywhere convenience.

Intrusion Resistance

Like setting rebar in concrete, Embedded Firewall strengthens your LAN's resistance to break-ins—preventing intruders from progressing further into the network. The biggest drawback to intrusion detection systems is that they can't differentiate between a random "false positive" alert or a coordinated attack. Embedded Firewall's transparent intrusion resistance saves your IT managers from chasing down every single alarm to determine whether it's true or false.

Easy Deployment and Scalability

The GUI management interface provides visual and intuitive control over policy configuration and audit functions. Embedded Firewall is designed to work in the popular Windows network environment. Upgrading the security on any host is as simple as installing an Embedded Firewall NIC.

Because security capabilities are installed in each end system, LAN security is topology-independent. Scale and build any configuration you want without compromising security. Protecting ad hoc subnets is no longer a problem because security policies and enforcement move with the end system, rather than being associated with a router or traffic stream.

Onboard Processing for Better LAN Performance

With 3Com Embedded Firewall, you'll secure your LAN without sacrificing performance. No more network

bottlenecks at authentication points or routers. IPSec and policy enforcement processing are offloaded to the Embedded Firewall NIC's built-in 3XP RISC processor and encryption chip. This keeps the host system's CPU free to handle application and end user processing tasks.

The Universal Connection

Simplicity with peace of mind. 3Com's objective with the Universal Connection is to tear down any barriers between you and our secure, reliable connections—wherever you are, whenever you need them. With 3Com Embedded Firewall, you receive superior connections, manageability, and ease of use worldwide. Benefits 3Com can offer.

90-Day Warranty

3Com backs Embedded Firewall with a 90-day warranty. For details, visit our warranty support page at <http://support.3com.com/registration/frontpg.pl>.

The challenge of network security

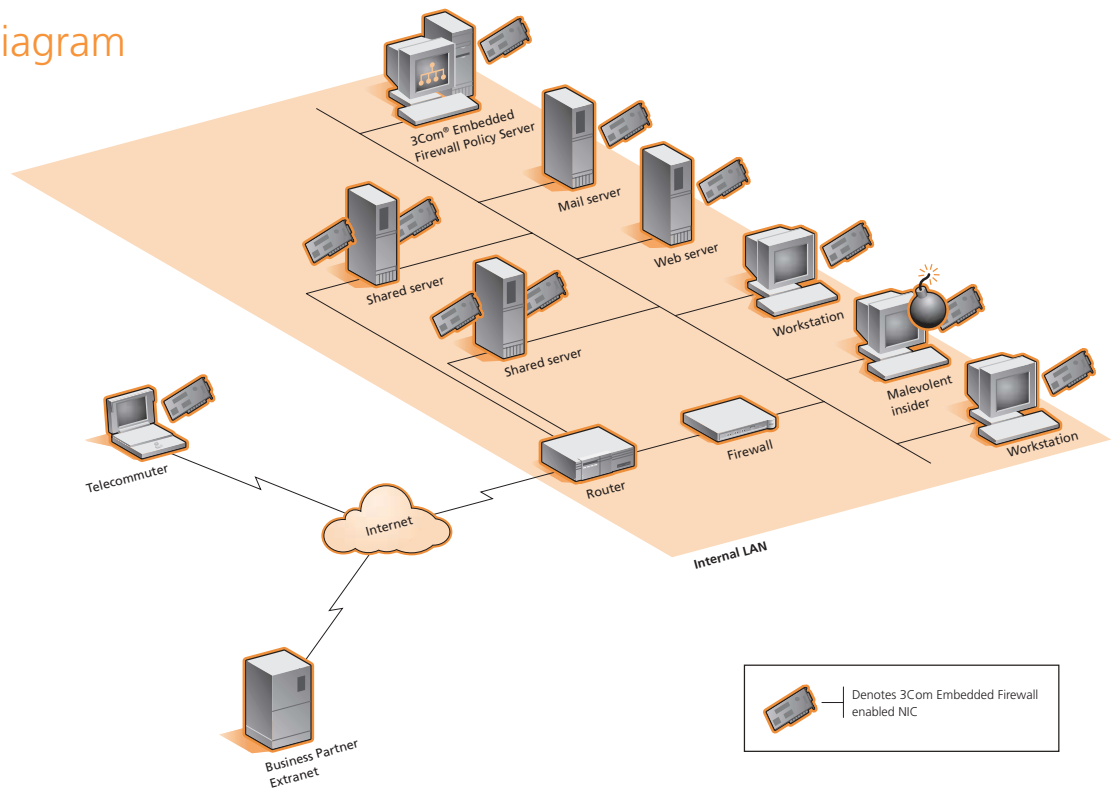
Network technologies and mobile computing have made global partnerships and e-business initiatives achievable for many companies, large and small. At the same time, the enterprise LAN has evolved from a fixed physical infrastructure to a jumble of ever-changing subnets, dial-up VPNs, and roaming users.

The challenge is that these "corporations without walls" also blur the boundaries between friendly users and suspect ones. Security used to be just a matter of keeping the outside Internet separate from internal LAN traffic. That's how perimeter firewalls work, by filtering and blocking communications coming into the corporation. But now, it's not just your employees who need access to your network—but partners, vendors, and even onsite contractors.

Unfortunately, traditional security measures are not nearly adaptable or reliable enough to meet these daily, or even hourly, changes. To protect today's business network, you need a security system that incorporates the following:

- Comprehensive protection that extends to the end system—the source of your data—regardless of how the LAN topology changes.
- Tamper-resistant security that operates independent of the host OS and other security programs.
- Manageable enforcement that allows you to define security through user policies rather than by physical infrastructure.

Network Diagram



Product Features

Feature	Benefit
Open standards architecture	Works with IEEE 802.3-, 802.1x-compatible hardware, Windows XP/2000/NT/98/95; 3CR990 NICs use standard PCI-bus interface.
Centralized management	Helps you easily deploy comprehensive security strategies across the organization, and without requiring user configuration.
Inherent scalability	Add additional NICs when and where you need them.
Low network overhead	Delivers security without sacrificing performance; firewall NIC throughput is over 70 Mbps and firewall management uses less than 1% of the network bandwidth.
Support for multiple policies	Define policies based on user role or host function, rather than on hardware infrastructure.
Global policy enforcement	Impedes attack escalation by preventing packet sniffing from subverted hosts or hostile users; also restricts IP address spoofing (DoS attacks).
Transparent to host software	Works independently from host OS and won't interfere with virus scanners or other security applications.
Tamper and bypass resistance	Because the firewall is embedded in the NIC and independent of the host, we offer a new level of hack-resistance.
Intrusion resistance	Blocks unnecessary IP addresses, ports, and protocols; does not generate false alarms.
Multiple management interfaces	Provide comprehensive visibility and control of network security; use Microsoft Management Console (for version 1.0) for anytime, anywhere convenience or Microsoft interface for greater capabilities.
NIC group-management support	Simplifies management of multiple NICs having common security requirements.

Specifications

3Com Embedded Firewall Policy Server

System Requirements

Hardware:

- Pentium III 800 MHz with CD-ROM drive
- 100 MB hard drive, 128 MB RAM available
- 3CR990 PCI NIC running TCP/IP

Software:

- Microsoft Windows 2000, Windows NT 4.0
- Internet Explorer 5.01 or later recommended

3Com Embedded Firewall Management Console

System Requirements

Hardware:

- Pentium II 400 MHz with CD-ROM drive
- 100 MB hard drive, 128 MB RAM available
- 3CR990 PCI NIC running TCP/IP

Software:

- Microsoft Windows 2000/98, Windows NT
- Internet Explorer 5.01 or later

Management Interfaces

- Microsoft Management Console interface
- Web-based graphical user interface

3Com Embedded Firewall (Server or Desktop Systems)

System Requirements

Hardware:

- Any Pentium PC with CD-ROM drive
- 3Com EtherLink® 10/100 PCI NIC with 3XP Processor*, any of the following models: 3CR990SVR97, 3CR990SVR95, 3CR990-TX-97, 3CR990-TX-95

Software:

- Microsoft Windows XP/2000/NT/98/95
- Internet Explorer 5.01 or later

Ordering Information

3Com Embedded Firewall Policy Server

Includes policy server software, single policy server license; supports up to 3000 clients.

Single policy server 3CR010PS-1-97†

3Com Embedded Firewall

Client licenses for 3CR990SVR95/97 server NICs.

Single client license 3CR010SS-LIC1-97*

5 client licenses 3CR010SS-LIC5-97*

3Com Embedded Firewall

Client licenses for 3CR990-TX-95/97 desktop NICs.

10 client licenses 3CR010CS-LIC10-97*

50 client licenses 3CR010CS-LIC50-97*

200 client licenses 3CR010CS-LIC200-97*

3Com Embedded Security Starter Pack

Includes policy server software and single policy server license; single 3CR990SVR97 server NIC, single server client license, 10 3CR990-TX-97 desktop NICs, 10 desktop client licenses.

Single starter pack 3CR010STRPAK-97*

*This software contains encryption which may not be exported or transferred from the U.S. or Canada without an approved U.S. Department of Commerce export license.

†Client licenses must be purchased separately.



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