

AltaVista Firewall 97

ONSITE BUSINESS

BUSINESS PANORAMA
PRICE LIST
PARTNER PROGRAM

ONSITE SECURITY

TUNNEL CENTER
OVERVIEW
INTERVIEW
TECHVIEW
FIREWALL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE PEOPLE

FORUM CENTER
OVERVIEW
INTERVIEW
TECHVIEW
MAIL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE INFORMATION

DIRECTORY CENTER
OVERVIEW
INTERVIEW
TECHVIEW
SEARCH CENTER
OVERVIEW
INTERVIEW
TECHVIEW

HARDWARE REQUIREMENTS

Any Alpha or Intel processor running Windows NT - System must include a monitor, support two network interface cards or adapters - CD-ROM reader. Note: SQL*Net proxy does not run on Alpha platforms running Windows NT - Disk space required for installation: 11 MB - Disk space required for use: 2 GB - 48 MB of memory, 64 MB of memory is recommended - Windows NT Version 3.51 or 4.0 Workstation or Server (Windows NT V4.0 or later required for remote management).

AltaVista Firewall	Price (US \$)
Up to 25 nodes	\$2,495
Up to 50 nodes	\$3,995
Up to 200 nodes	\$7,995
Unlimited number of nodes	\$14,995

For a complete list of our Business Partners, please visit our site at :
<http://altavista.software.digital.com/partners/firewall/index.htm>

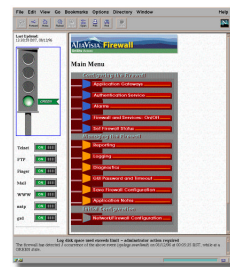
The Active Firewall

Only the widely respected AltaVista Firewall 97 is quick and nimble enough to be called the Active Firewall. It's the only one that independently reacts to network violations while alerting you via pager, e-mail, or audio alarm, and even shutting down the firewall against heavy attacks. AltaVista Firewall 97 knows all the tricks - and it's the highest level of protection for your network.

AltaVista Firewall 97 for Windows NT provides a flexible and secure connection between your private network and the Internet, or other insecure public TCP/IP networks. It prevents unauthorized access to your private network, while providing controlled access to Internet services to users within your network.

AltaVista Firewall 97 "shines in ease of management," according to DataComm (3/21/97). "It is the easiest firewall to control and configure," NetworkWorld said (2/3/97). AltaVista Firewall 97 also leads in advanced management features with the best reporting and alarming, as befits its pride as the Active Firewall.

AltaVista Firewall 97 is the only one that takes an active role in your security management. With its unique intelligence, it warns you of impending danger of intrusions, is constantly looking for threats to your defined security zone, and takes evasive action when attacks do occur.



AltaVista Firewall 97 combines trusted application gateways, comprehensive logging, reporting, real-time alarms, strong authentication, graphical user interface (GUI), and a step-by-step installation wizard all in one software package. AltaVista is by far the fastest firewall available, with no compromise on security. This demonstrates not only its high efficiency, but the tightness of its Windows NT integration.



SERVICES

- ✓ Trusted application including file transfer (FTP), remote sessions (Telnet), World Wide Web, Mail, News, SQL*Net, RealAudio and finger.
- ✓ Customizable generic TCP application gateway, providing secure connections to services that do not use a dedicated application gateway.

SECURITY

- ✓ Secure Sockets Library (SSL) support included with the World Wide Web proxy. Strong authentication support, using one-time passwords.
- ✓ Comprehensive logging and reporting of all events relating to the operation of the firewall.

MANAGEMENT

- ✓ Active architecture which can take actions on behalf of the system administrator with a sophisticated alarming and notification system.
- ✓ Remote management to perform the following operations remotely: View/Change firewall - View firewall event - Stop/Start firewall services.
- ✓ Installation wizard for easy step-by-step firewall installation, including DNS configuration.

AltaVista Firewall 97

ONSITE BUSINESS

BUSINESS PANORAMA
PRICE LIST
PARTNER PROGRAM

ONSITE SECURITY

TUNNEL CENTER
OVERVIEW
INTERVIEW
TECHVIEW
FIREWALL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE PEOPLE

FORUM CENTER
OVERVIEW
INTERVIEW
TECHVIEW
MAIL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE INFORMATION

DIRECTORY CENTER
OVERVIEW
INTERVIEW
TECHVIEW
SEARCH CENTER
OVERVIEW
INTERVIEW
TECHVIEW

Technical Overview

AltaVista Firewall 97 Features	Digital UNIX	NT (Alpha and Intel)
Best-in-class Management	X	X ¹
URL and JAVA blocking	X	X ²
Proxies		
✓ Enhanced WWW proxy	X	
✓ Real-audio proxy	X	X
✓ Generic UDP proxy	X	
✓ SQL*net proxy	X	X
✓ One to one and many to one generic proxy	X	X ³
Authentication		
✓ NT domain login		X
✓ Web user or group of users	X	
Dual DNS	X	
Single server for firewall and VPN	X ⁴	X
DMZ support	X	

1 Some restrictions apply. See feature description. 2 Only URL blocking is supported on NT.

3 Already supported on NT. 4 Already supported on UNIX.

Best-in-class local and remote management

Excelling in all aspects of management: This is a key ingredient in the AltaVista Firewall design center. AltaVista not only delivers leading security features but also offers best-in-class management capabilities to significantly enhance security levels. Firewall management can indeed greatly minimize risk of mis-configuration when implementing policies. It also decreases system managers' time and reduces overall MIS costs.

Managing heterogeneous configurations: Because system administrators may have to manage several platforms, the remote firewall management is very consistent and compatible on all supported platforms. It implements a HTML based user interface for a same look-and-feel. It is written in Java for enhanced portability.

Centralized Management: AltaVista Firewall 97 offers remote management for firewalls within any network sizes from a centralized console running either Windows 95 or Windows NT. This is both a cost and time saving feature which allows system administrators to monitor and take quick actions on their UNIX or NT based firewall.

Remote management without compromises on security: Unlike any competitive offerings which establish a weak link to the firewall via a serial port or telnet session on a high port, AltaVista Firewall remote management includes - at no-cost - the best-in-class features of the AltaVista Tunnel. The tunnel product provides RSA 512 bit authentication, MD5 integrity and the strongest encryption worldwide with RSA 128bit (U.S.) and 56/40 bit (International.)

Efficiently managing firewalls from anywhere: The new remote management enables system administrators to view firewall activities and allows them to quickly take appropriate actions. Consistently with the OnSite Computing vision of AltaVista, network managers are able to manage the firewall from anywhere within the intranet or from an untrusted network.

AltaVista Firewall 97

ONSITE BUSINESS

BUSINESS PANORAMA
PRICE LIST
PARTNER PROGRAM

ONSITE SECURITY

TUNNEL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

FIREWALL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE PEOPLE

FORUM CENTER
OVERVIEW
INTERVIEW
TECHVIEW

MAIL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE INFORMATION

DIRECTORY CENTER
OVERVIEW
INTERVIEW
TECHVIEW

SEARCH CENTER
OVERVIEW
INTERVIEW
TECHVIEW

On all supported platforms, the remote management displays the states of all services as well as various statuses and alarms. It also allows to modify the firewall status and start/stop specific services such as FTP. Additionally, on Digital UNIX, network administrators can maintain and manage security policies, user authentication, DNS, mail, new SNMP alarms and active monitoring of traffic. Furthermore, different levels of control can be assigned on UNIX. As an example, one Firewall administrator can monitor the status of the firewall, while another can change some security policies.

URL and Java blocking

This is both a performance and a security feature. According to easily definable policies, AltaVista Firewall 97 can block URLs to preserve network performance and to restrict access to specific Web sites for productivity purposes. Security managers can define specific policies for URL access. AltaVista Firewall 97 can also detect and block Java applets entirely by allowing selective filtering of Java applets through the firewall to protect against one the most common network attacks.

New and enhanced proxies

Enhanced WWW proxy. This updated proxy contains significant performance improvements based on code optimization and caching implementation. It supports the following protocols: HTTP, HTTPS/SSL, gopher and ftp. It implements the CERN/NCSA Common Log Format for enhanced reporting and integration with third party analysis tools. As for other proxies, access restriction policies per user can also be combined with time limitations.

Support for Real-Audio proxy. RealAudio is an application that allows playback of audio in real-time over internet connections. Through the RealAudio proxy, managers can allow or prevent users on internal network systems with Web browsers to access RealAudio services on the external network. For this proxy, system administrators can specify security policy details, time restrictions and blacklists of hosts forbidden access (common with ftp, telnet and finger proxies.)

New Generic UDP proxy. A new generic UDP proxy allows UDP-based applications, such as Internet Chat, to pass through the firewall securely.

New SQL*net proxy. With AltaVista Firewall 97, system architects are free to build sophisticated, distributed networks of Oracle7 or third-party data repositories across the Internet. SQL*Net establishes a connection to a database when a client or another database server process requests a database session. The proxy is based on the Oracle Multi-Protocol Interchange (MPI), so it inherits many of the Multi-Protocol interchange's features. SQL*Net firewall proxy is able to control access based on information contained in the SQL*Net connection packet. This includes the client machine name, the destination name and the database service. The firewall also integrates the administration of this authorization list with various authentication methods such as smartcards.

Generic TCP relay enhancements. AltaVista Firewall 97 broadens security policies by offering a generic TCP relay for one-to-many and many-to-one connections. Consequently, an instance of the generic relay such as news can have one server on the inside of the firewall getting feeds from multiple news servers on the outside. This generic relay is also fully transparent outbound so there will be no need to reconfigure internal systems. The management GUI supports both one-to-many and many-to-one configurations.

AltaVista Firewall 97

ONSITE BUSINESS

BUSINESS PANORAMA
PRICE LIST
PARTNER PROGRAM

ONSITE SECURITY

TUNNEL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

FIREWALL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE PEOPLE

FORUM CENTER
OVERVIEW
INTERVIEW
TECHVIEW

MAIL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE INFORMATION

DIRECTORY CENTER
OVERVIEW
INTERVIEW
TECHVIEW

SEARCH CENTER
OVERVIEW
INTERVIEW
TECHVIEW

Powerful and Flexible Authentication

Authentication for WWW users or group of users. The enhanced WWW proxy includes authentication for specific users or group of users by any authentication schemes currently supported by the UNIX firewall such as CRYPTOcard or re-useable passwords. This feature provides system administrators with great flexibility to implement their policies with finer granularity. This authentication is integrated with the existing system management GUI on UNIX.

Windows NT domain authentication support. This feature Integrate Windows NT domain authentication scheme. This allows access to Internet services (e.g. FTP, telnet) to users authenticated by this scheme and finer grained control over firewall traversal. This is a clear win for both end-users and MIS managers. MIS managers can easily integrate NT domain concept in their policies and users can appreciate a simplified login mechanism. The AltaVista Firewall 97 authenticates in both directions across the firewall.

Dual-DNS Server

Before the introduction of AltaVista Firewall 97, the recommended name server configuration was the hidden DNS setup hiding the internal address space from the untrusted network. However, this recommendation required to set up a second name server within the intranet causing some management issues.

With AltaVista Firewall 97, firewalls can now be configured as Dual-DNS servers that understand which name services are internal or external. This Dual-DNS server is fully configurable through the GUI based management.

Single Server for Tunnel and Firewall

F500 companies are mostly interested in dedicated boxes for security, performance and management reasons. AltaVista has been offering the capability of running a security low-end server on the same UNIX box. It managed to minimize any security impacts by a close integration between those two products. With Firewall 97, AltaVista now extends this integrated solution to Windows NT servers.

DMZ support

With DMZ (Demilitarized Zone), AltaVista Firewall 97 on UNIX offers more than a simple trusted/untrusted implementation supporting only two LAN connections. While two interfaces is often enough for an Internet-oriented firewall, many organizations need three: one for the Internet, one for public servers for such items as WWW, News and File Transfer Protocol (FTP), and one for the intranet. The introduction of DMZ support provides security managers with great flexibility when configuring their security implementations. While DMZ is fully supported, it still needs to be done outside the GUI. An application note in the GUI describes the configuration process.

AltaVista Firewall 97

ONSITE BUSINESS

BUSINESS PANORAMA
PRICE LIST
PARTNER PROGRAM

ONSITE SECURITY

TUNNEL CENTER
OVERVIEW
INTERVIEW
TECHVIEW
FIREWALL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE PEOPLE

FORUM CENTER
OVERVIEW
INTERVIEW
TECHVIEW

MAIL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE INFORMATION

DIRECTORY CENTER
OVERVIEW
INTERVIEW
TECHVIEW

SEARCH CENTER
OVERVIEW
INTERVIEW
TECHVIEW

Firewall Checklist

	Digital UNIX	Windows NT
Type of Firewall		
- Hardware	Alpha	Intel and Alpha
- Software	Only	Only
- Packet filtering	Yes	Future
- Application-level	Yes	Yes
- Circuit-level	Yes	Yes
- Dual Homed	Yes	Yes
- Fast networking connections	Yes	Yes
- DMZ support	Yes	No (Future)

Proxies	Digital UNIX	Windows NT
- Proxy server	Yes	Yes
- Transparent proxy	Yes (FTP, Telnet, Generic TCP, SMTP)	Future
- Telnet	Yes	Yes
- FTP	Yes	Yes
- SMTP	Yes	Yes
- NNTP	Yes	Yes
- HTTP	Yes	Yes
- Gopher	Yes	Yes
- S-HTTP	Yes (with SSL)	Yes (with SSL)
- POP	Yes (via generic tcp relay)	Yes (via generic tcp relay)
- RPC	No (large security risk)	No (large security risk)
- ICMP	No (no pings through fw)	No (no pings through fw)

Authentication and encryption	Digital UNIX	Windows NT
- Reusable passwords	Yes	Supported through NT domain authentication
- One-time passwords	Yes	No
- Token-based	Yes (Security Dynamics, Crypto Card, S/Key, RACALWatchword)	Yes (Security Dynamics)
- Encryption	Yes, via AltaVista Tunnel (40-56-128 bits)	Yes, via AltaVista Tunnel (40-56-128 bits)
Tunneling/Virtual Private Networking	Yes, via AltaVista Tunnel	Yes, via AltaVista Tunnel

AltaVista Firewall 97

ONSITE BUSINESS

BUSINESS PANORAMA
PRICE LIST
PARTNER PROGRAM

ONSITE SECURITY

TUNNEL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

FIREWALL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE PEOPLE

FORUM CENTER
OVERVIEW
INTERVIEW
TECHVIEW

MAIL CENTER
OVERVIEW
INTERVIEW
TECHVIEW

ONSITE INFORMATION

DIRECTORY CENTER
OVERVIEW
INTERVIEW
TECHVIEW

SEARCH CENTER
OVERVIEW
INTERVIEW
TECHVIEW

Additional security	Digital UNIX	Windows NT
- Anti-spoofing	Yes	Yes
- Internal address hiding	Yes	Yes
- Trusted Operating System	Yes	Yes
- Virus Scanning	Yes (via third-parties e.g. Finjan, McAfee)	Yes (via third-parties e.g. FinJan, McAfee)
- Java Blocking	Yes	No
- URL Blocking	Yes	Yes
- ActiveX Blocking	Future	Future

Certification	Digital UNIX	Windows NT
NCSA	Yes	Yes (first vendor to obtain NT certification)
ITSEC	Future	Future

Management	Digital UNIX	Windows NT
Graphical interface	Yes (HTML)	Yes (HTML and Windows)
Real-Time monitoring	Yes	Yes
Real-Time reporting	Yes	Yes
Service-user logging	Yes	Yes
Failed-Usage attempt logging	Yes	Yes
Statistical analysis	Yes	Yes
Alarm analysis	Yes	Yes
Evasive action	Yes	Yes
Paging	Yes (SNPP and script)	Yes (script only)
Remote administration	Yes	Yes
Central admin of multiple firewalls	Yes	Yes