digital™

Software Product Description

PRODUCT NAME: DIGITAL Firewall for OpenVMS VAX and Alpha, Version 1.0   SPD 56.26.00

DESCRIPTION

The DIGITAL Firewall for OpenVMS is an application-level firewall that provides secure connectivity to the Internet and within private TCP/IP networks (intranets) on a proven secure operating system. The DIGITAL Firewall for OpenVMS uses a combination of technologies that enable a dedicated OpenVMS Alpha or OpenVMS VAX system to serve as a highly secure yet flexible barrier between your private networks and the Internet or among multiple intranets. The firewall ensures that no direct connections between your private networks and the Internet are permitted. All traffic must pass through one of the application gateways included with the DIGITAL Firewall for OpenVMS. Each gateway verifies that only the traffic you specify can pass into and out of your network.

The DIGITAL Firewall for OpenVMS Version 1.0 provides a full suite of custom application gateways for popular Internet services:

- Electronic mail using an **SMTP** gateway

- File transfer using an **ftp** gateway

- World-Wide Web using an **HTTP** gateway

- remote access using a **telnet** (including TN3270) gateway

- Usenet news using an **NNTP** gateway

A generic TCP-application gateway is provided for use with nonstandard services. The application gateways can be configured to allow controlled access from the private network to the public network and from the public network into the private network.

Comprehensive logging ensures that a record is kept of all attempts to access the private network. For each service, the DIGITAL Firewall for OpenVMS offers a set of predefined security policies to enable the customer to set up secure connections as quickly as possible.

The DIGITAL Firewall for OpenVMS incorporates dedicated software to prevent so-called "IP spoofing" attacks. All packets received from the external network that try to appear as through they originate from an address in the private network are rejected.

The DIGITAL Firewall for OpenVMS Version 1.0 is a port of the DIGITAL Firewall for UNIX Version 1.0. The OpenVMS port delivers the same features as those available in the DIGITAL UNIX product with the following exceptions:

- The ability to perform filtered routing, such as that provided by the **screend** utility on DIGITAL UNIX.

- An application gateway for **finger**, allowing users to be located on remote Internet hosts.

FEATURES

The DIGITAL Firewall for OpenVMS Version 1.0 includes the following features:

A *graphical user interface* — Simplifies the configuration, administration and management of the firewall. Simple point-and-click menus reduce firewall configuration complexity and minimize the potential for human error.

User-based authentication — Uses one-time passwords. All incoming connections from the public network and, optionally, some outgoing connections can

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be required to use user-based, handheld authentication devices.

Extensive online help — Includes task-oriented help, context-sensitive help on all significant screens in the user interface, and reference help. In addition, the user interface includes text that helps guide the user through management and configuration tasks.

Color-coded security status warnings — Indicates at a glance whether the firewall is under attack. The firewall status can be checked easily through the user interface. Four status levels are defined: green, yellow, orange, and red.

Automatic shutdown — Removes individual services or brings down the whole firewall to prevent the firewall from being compromised if it is under continued or re-peated attack.

Comprehensive logging — records all events relating to the operation of the firewall. The DIGITAL Firewall for OpenVMS automatically manages and maintains old log files. Old log files are systematically archived, com-pressed, and, after a longer period, deleted. Users can choose to disable any of these actions through the user interface.

Automatic alarms — Alerts the system administrator to unusual or potentially threatening events relating to the firewall. The alarm system continually monitors the sys-tem log files in real time for any events that are unusual or suspicious, and triggers one or more alarm actions in response. Standard alarm actions include sending mail to the system administrator, increasing the security sta-tus of the firewall, and shutting down individual services or the whole firewall. The DIGITAL Firewall for Open-VMS is installed with a default set of alarms. Users can modify or delete the existing alarms, or they can create their own using the user interface.

Extensive reporting — Provides summaries of firewall usage and individual services. The reports can be viewed through the user interface, mailed automatically to a specified distribution list at regular intervals, or both. All reports use information from the firewall log files. A wide range of summary reports and detailed reports is available.

HARDWARE REQUIREMENTS

To maximize the security and to ensure the integrity of the firewall, Digital requires that the system running the DIGITAL Firewall for OpenVMS be a dedicated machine. This system should also be secure from physical intru-sion.

The following are the minimum hardware requirements for the DIGITAL Firewall for OpenVMS.

- An OpenVMS VAX or OpenVMS Alpha computer that supports two network interfaces and a video adapter.

  Note: VAXstation 3100, VAXstation 2000, and most VLC systems do not support two Ethernet cards.

- A CD–ROM drive

- A second network card

- A minimum of 1 GB of available disk space, with 4 GB being the recommended disk size for protecting an average-sized private network.

Note: To ensure optimal performance, DIGITAL recom-mends a minimum configuration of a VAXstation 3500 with 32 MB of memory or an Alpha system with 64 MB of memory.

SOFTWARE REQUIREMENTS

The following are the minimum software requirements for the DIGITAL Firewall for OpenVMS.

- OpenVMS Alpha Version 6.2 operating system (or later)

- OpenVMS VAX Version 6.1 operating system (or later)

- DECwindows Motif® Version 1.2-3 for OpenVMS (or later)

- DIGITAL TCP/IP Services for OpenVMS Version 4.0 (or later)

All required ECO and update kits are provided as part of the DIGITAL Firewall for OpenVMS. Please refer to the product installation documentation for more informa-tion about the ECO version required for DIGITAL TCP/IP Services for OpenVMS.

If you are installing the DIGITAL Firewall for OpenVMS software on DECwindows Motif Version 1.2-3, be sure to install update ALPMOTF_03012 on Alpha or VAX-MOTF_03012 on VAX.

Prior to installing the DIGITAL Firewall for OpenVMS on a system running DECwindows Motif Version 1.2-4; ensure that the CDE option has not been installed. If necessary, Reinstall DECwindows Motif Version 1.2-4 without the CDE option.

ORDERING INFORMATION

The online documentation, binaries, and trial license for the DIGITAL Firewall for OpenVMS version 1.0 are available exclusively as part of the OpenVMS Internet Product Suite CD–ROM. Hardcopy documentation for the firewall can be ordered separately.

Media

OpenVMS Internet Product Suite Media Kit	QA-5CNAA-H8 (CD–ROM)
DIGITAL Firewall for OpenVMS version 1.0 Documentation Kit	QA-57MAA-GZ

Licenses

The DIGITAL Firewall for OpenVMS is licensed based upon the number of nodes protected by your firewall. A "node" refers to any host protected by the firewall.

DIGITAL Firewall for OpenVMS	Protecting a 50-node private network	QL-57MAA-3C
DIGITAL Firewall for OpenVMS	Protecting a 200-node private network	QL-57MAA-3D
DIGITAL Firewall for OpenVMS	Protecting a private network of more than 200 nodes	QL-57MA9-AA

SOFTWARE LICENSING OPTIONS

The DIGITAL Firewall for OpenVMS is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about DIGITAL's licensing terms and policies, contact your local DIGITAL office.

SOFTWARE PRODUCT SERVICES

Digital provides Firewall configuration and installation services. Please contact DIGITAL for a specific offering tailored to your site.

SOFTWARE WARRANTY

Warranty for this software product is provided by DIGITAL with the purchase of a license for the product as defined in the Software Warranty Addendum of the OpenVMS Operating System for VAX and Alpha, Version 7.0 (SPD 25.01.48).