Firewall

iSecurity

Firewall Product Description

Firewall protects and secures all types of access, to and from the IBM i, whether within or outside the organization, and under all types of communication protocols. This robust, cost-effective security solution is by far the most intuitive and easy-to-use security software product on the market today.

As part of iSecurity's Intrusion Detection and Prevention system, **Firewall**, secures access via pre-defined entry points and sends real-time alerts as defined.

Firewall's "top-down" functional design and intuitive logic creates a work environment that even IBM i novices can master in minutes. **Firewall** features a user-friendly, Java-based GUI in addition to the traditional green-screen interface.

The Firewall Solution

Technological advances in recent years have compelled IBM to open the System i and its IBM i (OS/400) operating system to the rest of the world. This new "openness" brought with it many of the security risks inherent in distributed environments. System administrators need to equip themselves with a new generation of security tools to combat these evolving threats. **Firewall** is just such a tool as it enhances native IBM i (OS/400) by controlling access via all known external sources and controls precisely what users are permitted to do once access is granted.

Firewall is designed for clarity, simplicity, and ease-of-use. Its unique "Best Fit" algorithm saves precious work time by eliminating the need for pre-defined security rule priorities. The software automatically selects and dynamically applies the most suitable and efficient rules, thereby minimizing throughput delays. In addition, **Firewall** rule wizards greatly simplify the security definition process, extracting and summarizing data (IFS and native objects, IPs, users, etc.) from the history logs and then displaying the actual transaction statistics alongside current rules. The user may then choose to modify rules based on the data or create new rules – all from one convenient screen.

Firewall works together with **Action** to automatically trigger alert messages and immediate corrective actions when an intrusion or other security breach is detected.

Firewall Protection

- Incoming and outgoing TCP/IP address filtering for Internet, FTP, REXEC, Telnet, and DHCP
- Subnet mask filtering
- Remote system (SNA) firewall protection for DDM, DRDA and
- Passthrough operations
- Powerful Intrusion Detection enables Firewall to trigger proactive responses to the security administrator by MSGQ and email
- DHCP request packet validation

User Security

- User-to-server security for all server functions and exit points
- Prevents users from performing specific actions, irrespective of access method or of location
- Verb support provides control over the execution of commands for specific servers
- Internal profile groups simplify rule creation for specific groups of users
- DDM/DRDA security including pre- and post- validation user swapping
- Protection over user signon from Telnet – limits user access to specific IPs and terminals
- Login control, including alternate user name support, for FTP, REXEC, WSG and Pass-through
- User-definable exit program support (global and per server)
- User management and statistics tools ease system and security tasks

Object Security

- Controls object access at the level of specific action, such as read, write, delete, rename, run etc.
- Secures native O/S 400 and IFS objects
- Protects files, libraries, programs, commands, data queues and print files
- Definable rule exceptions for specific users

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History Logs and Reports

- Total user control over which transactions are logged and displayed
- Many pre-defined queries and reports
- Powerful report generator
- Wizard to generate accurate reports from Firewall log
- Redirecting output to an output file for further processing
- Print all Firewall definitions for review and documentation
- Flexible report scheduler enables reports processing at off peak
- Modify rules directly from Firewall log

Features

- Protect all exit points by determining how servers are to be protected and what level of access control is desired.
- Control activity to and from to specific IP addresses
- Control individual servers by users, profiles, groups and Firewall user groups
- Define security rules for files, libraries, data queues, printer files, programs, commands and IFS objects
- Define attributes for specific combinations of IP addresses (or SNA names) and user profiles at logon
- Reporting features provide queries and reports for system activity traceability
- Emergency Override, which enables overriding existing security rules temporarily - useful for responding quickly to sudden security breaches
- Clear, easy navigation through hierarchy-based levels gives quick, streamlined usage

Benefits

- Protects all IBM i exit points and servers - more than any other product on the market!
- Protects all communication protocols (TCP/IP, FTP, Telnet, WSG, Passthrough, etc.)
- Superior human engineering makes Firewall incredibly easy to understand and learn, even for non-technical system administrators
- Precisely controls what users may do after access is granted – unlike standard firewall products
- "Best-Fit" algorithm minimizes throughput delays by rapidly and efficiently applying security rules
- Rule Wizards dramatically simplify security rule definition
- State-of-the-art intrusion detection guards against hacker attacks
- Standard firewall protection provides IP address and SNA name filtering
- Subnet mask filtering for all IP addresses – one rule can protect an entire workgroup or LAN
- Protects both native and IFS objects – all of your databases are secured
- Remote logon security limits IP address to specific users at specific times
- Automatic signon with alternate user profile (usually with restricted authorities) enhances security when authorized users connect from remote locations
- Powerful report generator and scheduler

Server	Server Description	Secure	Level	IP Filtering	Log	Action	FYI	User Exit Program
FILTFR	Original File Transfer Function	Yes	Full (User+Object)	Not supported	All	All	Yes	By server
SSHD	SSH,SFTP,SCP- Secured CMD Entry,FTP,COPY	No						
FTPLOG	FTP Server Logon (*)	Yes	Full (User+Logon)	No	All	All	Yes	By server
FTPSRV	FTP Server-Incoming Rqst Validation (*)	Yes	Full (User+Object)	Not supported	All	All	Yes	By server
FTPCLN	FTP Client-Outgoing Rqst Validation (*)	Yes	Full (User+Object)	No	All	All	Yes	By server
TFTP	TFTP Server Request Validation	Yes	Full (Object)	Not supported	All	All	Yes	Yes
REXLOG	REXEC Server Logon	Yes	Full (User+Logon)	No	All	All	Yes	By server
REXEC	REXEC Server Request Validation	Yes	Full (User+Object)	Not supported	All	All	Yes	By server
RMTSQL	Original Remote SQL Server	Yes	Full (User+Object)	No	All	All	Yes	By server
SQLENT	Database Server - entry	Yes	User to Service	No	All	All	Yes	By server
SQL	Database Server - SQL access & Showcase	Yes	User to Service	No	All	No	Yes	By server
DBOPEN	Open Database	No						
NDB	Database Server - data base access	Yes	Full (User+Object)	No	All	All	Yes	By server
OBJINF	Database Server - object information	Yes	User to Service	No	All	All	Yes	By server
RMTSRV	Remote Command/Program Call	Yes	Full (User+Object)	No	All	No	Yes	By server
FILSRV	File Server (*)	Yes	Full (User+IFS File)	Not supported	All	All	Yes	By server
TELNET	Telnet Device Initialization	Yes	Logon control	No	All	All	Yes	By server
TELOFF	Telnet Device Termination	Yes		Not supported	All	All	Yes	No
SIGNON	Sign-On Completed (*)	Yes	Allow All	Not supported	All	All	Yes	By server
ORDTAQ	Original Data Queue Server	Yes	Full (Object)	Not supported	All	All	Yes	By server
DTAQ	Data Queue Server	Yes	Full (User+Object)	Not supported	All	All	Yes	By server

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