



## VPN-1/FireWall-1/FloodGate-1 Application Support

VPN-1<sup>®</sup>, FireWall-1<sup>®</sup>, and FloodGate-1<sup>™</sup> offer unequaled application awareness, and provide policy-based security and control of mission-critical application traffic across VPNs, private WANs and Internet links. This awareness is enabled by Check Point's patented Stateful Inspection<sup>SM</sup> engine, which resides at the kernel level, and understands the internal structures of the IP protocol family as well as the applications built on top of them.

Below is a partial list of applications, protocols and services supported by VPN-1, FireWall-1, and FloodGate-1.

Application Intelligence  
Multi-Media Streaming  
Internet Services  
Enterprise Services  
Authentication and Security  
Network Mail Services

Routing  
TCP and UDP Services  
RPC Services  
ICMP Services

Please visit the OPSEC page to get more information on specific vendors listed in the tables below.



## Multi-Media Streaming

<b>Service/Application</b>	<b>Vendor</b>	<b>Access Policy</b>	<b>VPN Policy</b>	<b>QoS Policy</b>
<b>CoolTalk</b>	Netscape	√	√	√
<b>Conferencing</b>	Microsoft	√	√	√
<b>CreativePartner</b>	Emotion	√	√	√
<b>CU-SeeMe</b>	White Pine	√	√	√
<b>VoIP (H.323 and SIP)</b>	Multiple	√	√	√
<b>VoIP - MGCP</b>	Multiple	√	√	√
<b>VoIP – SCCP</b>	Cisco	√	√	√
<b>Skype</b>	Skype	√	√	√
<b>NetMeeting</b>	Microsoft	√	√	√
<b>Internet Phone</b>	Intel	√	√	√
<b>QuickTime</b>	Apple Computer	√	√	√
<b>Real Audio Real Video</b>	RealNetworks	√	√	√
<b>RTSP RealPlayer G2</b>	RealNetworks	√	√	√
<b>StreamWorks 2.0</b>	Xing	√	√	√
<b>VDOLive</b>	VDONet	√	√	√
<b>Vosaic Media Suite</b>	Vosaic	√	√	√
<b>Web Theater</b>	VXtreme	√	√	√
<b>Windows Media Services</b>	Microsoft	√	√	√

## Internet Services

Service/Application	Vendor	Access Policy	VPN Policy	QoS Policy
<b>AOL Network Connection</b>	AOL	√	√	√
<b>Archie</b>	FTP Searches	√	√	√
<b>BackWeb</b>	BackWeb	√	√	√
<b>Gopher</b>	Mosaic	√	√	√
<b>File Sharing, e.g.</b> - <b>Kazaa</b> - <b>Morpheus</b> - <b>Gnutella</b> - <b>Emule</b>	KaZaA Morpheus	√	√	√
<b>Instant Messaging, e.g.</b> - <b>AOL Instant Messenger</b> - <b>Yahoo! Messenger</b> - <b>ICQ</b> - <b>Microsoft Messenger</b>	AOL Yahoo ICQ Microsoft	√	√	√
<b>HTTP Sub Services</b> - <b>NetCaster</b> - <b>Channels</b> - <b>CastaNet</b>	NetScape Microsoft Marimba	√	√	√
<b>NNTP</b>		√	√	√
<b>FTP</b>		√	√	√

<b>DNS</b>		√	√	√
<b>PcANYWHERE</b>	Symantec	√	√	√
<b>PcTELECOMMUTE</b>	Symantec	√	√	√
<b>WAIS</b>		√	√	√

### Enterprise Services

<b>Service/Application</b>	<b>Vendor</b>	<b>Access Policy</b>	<b>VPN Policy</b>	<b>QoS Policy</b>
<b>Citrix ICA</b>	Citrix	√	√	√
<b>Terminal Services</b>	Microsoft	√	√	√
<b>DCOM</b>	Microsoft	√	√	√
<b>DCE RPC - Exchange</b>	Microsoft	√	√	√
<b>CU-SeeMe</b>	White Pine	√	√	√
<b>IIOF - Application Server - CORBA - Orbix</b>	Oracle Oracle IONA	√	√	√
<b>NFS</b>	Sun Microsystems	√	√	√
<b>Notes</b>	Lotus	√	√	√
<b>Open Client</b>	Sybase	√	√	√
<b>X11</b>		√	√	√
<b>SQL - Server 6.0 - SQLNet - Server</b>	Microsoft Oracle Sybase	√	√	√

## Network Protocols and Services

All Check Point policy enforcement and traffic management products support the services and protocols listed below.

### Authentication and Security

<b>Service/Protocol</b>	<b>Detail</b>
<b>CVP (Content Vectoring Protocol)</b>	OPSEC protocol for Content Security
<b>Certificate Authority</b>	Entrust 4.0, X.509
<b>Defender</b>	Axent Server Protocol
<b>HTTPS</b>	Secured HTTP
<b>ISAKMP/IKE</b>	IPSEC Key Exchange Protocol
<b>IPSEC</b>	ICSA Interoperability
<b>Kerberos</b>	Authentication Directory
<b>LDAP</b>	Internet Directory Standard
<b>LDAP-SSL</b>	SSL security for directory access
<b>RADIUS</b>	Remote authentication protocol
<b>Real Secure</b>	Intrusion detection
<b>SecurID</b>	Two-factor, token-based authentication
<b>TACACS,TACACS+</b>	Router Authentication
<b>UFP</b>	An OPSEC URL filtering Protocol

### Network Mail Services

<b>Service/Protocol</b>
<b>Biff</b>
<b>IMAP Internet Mail Protocol</b>

<b>Post Office Protocol v.2,3</b>
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<b>SMTP Simple Mail Transfer Protocol</b>
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## Routing

<b>Service/Protocol</b>
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<b>EGP Exterior Gateway Protocol</b>
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<b>IGRP Internet Gateway Routing Protocol</b>
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<b>GGP Gateway to Gateway Protocol</b>
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<b>GRP Dynamic Routing Protocol</b>
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<b>OSPF Open Shortest Path First Protocol</b>
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<b>RIP Routing Information Protocol</b>
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<b>BGP</b>
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<b>Ping: echo-request, echo-reply</b>
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<b>IGMP Internet Group Management Protocol</b>
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## TCP and UDP Services

<b>Service/Protocol</b>
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<b>AOL Instant Messenger</b>
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<b>Bootp Bootstrap Protocol</b>
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<b>Chargen</b>
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<b>CIFS Common Internet File System</b>
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<b>Daytime</b>
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<b>Discard</b>
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<b>DNS Domain Naming System</b>
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<b>Echo</b>
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<b>Finger</b>
<b>FTP File Transfer Protocol</b>
<b>Gnutella</b>
<b>Ident User Identification</b>
<b>IRC Internet Relay Chat</b>
<b>Kazaa</b>
<b>Mask: r1equest -&gt; reply</b>
<b>NetBEUI</b>
<b>NetBIOS over IP – Microsoft</b>
<b>NIS Network Information Service</b>
<b>NTP Network Time Protocol</b>
<b>PPTP Point to Point Tunneling Protocol</b>
<b>Open Windows</b>
<b>RAS Remote Access Service</b>
<b>Rexec Remote Execution</b>
<b>Rlogin remote Login</b>
<b>Rsh remote Shell</b>
<b>SMB</b>
<b>SNMP Simple Network Management Protocol</b>
<b>SNMP trap</b>
<b>SOAP Simple Object Access Protocol</b>
<b>Syslog</b>
<b>Telnet Telecommunications Network Protocol</b>
<b>TFTP Trivial File Transfer Protocol</b>

<b>Time</b>
<b>Traceroute</b>
<b>UUCP Unix to Unix Copy</b>
<b>Yahoo!Messenger</b>
<b>WinFrame 1.6 from Citrix</b>
<b>Who</b>
<b>X.11</b>
<b>XML Extensible Markup Language</b>

### RPC Services

<b>Service/Protocol</b>
<b>Lockmanager</b>
<b>Mountd</b>
<b>NFS Network File System</b>
<b>NIS Network Information System</b>
<b>Rstat</b>
<b>Rwall</b>

### DCE RPC services

<b>DCOM-RemoteActivation</b>
<b>MSExchangeDNSPI</b>
<b>MSExchangeDSRep</b>
<b>MSExchangeDSXDS</b>
<b>MSExchangeIS</b>
<b>MSExchangeMTA</b>
<b>MSExchangeADL</b>



**MSExchangeDirRep**  
**MSExchangeDirRef**  
**MSExchangeSysAtt**  
**MSExchangeSysAttPriv**  
**MSExchangeStoreAdm**  
**MSExchange**  
**MSExchange-SiteConnector**  
**MSExchange-2000**  
**HP-OpCdistm**  
**HP-OpCmsgprd-std**  
**HP-OpCmsgprd-m2m**  
**HP-OpCmsgprd-coa**  
**HP-OpCctla**  
**HP-OpCctla-cfgpush**  
**HP-OpCctla-bulk**  
**DCOM-OXID\_Resolver**  
**DCOM-RemUnknown2**  
**MS-WINS-Replication-TCP\_SD**  
**MSExchangeDatabase**  
**MSExchangeInformationStore1**  
**MSExchangeInformationStore2**  
**MSExchangeInformationStore3**

**Redirect**

**Time Exceeded**

**Timestamp: request and reply**

## ICMP Services

<b>Service/Protocol</b>
<b>Dest-Unreach Destination Unreachable</b>
<b>Source-Quench</b>
<b>Information Request</b>
<b>Information Reply</b>
<b>Address Mask Request</b>
<b>Address Mask Reply</b>
<b>Parameter Problems</b>
<b>Ping: echo-request, echo-reply</b>
<b>Redirect</b>
<b>Time Exceeded</b>
<b>Timestamp: request and reply</b>