



Clearswift SECURE Web Gateway V4.x

Ports and Protocols

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1 Connection Ports and Protocols

The Clearswift SECURE Web Gateway requires connectivity to external services over a number of different ports and protocols.

Clients should be aware that these entries may be liable to change with limited notice as Clearswift extends its infrastructure to exceed demands.

Wherever possible, clients should configure their firewalls to utilize the hostname of the service and only use IP addresses if defining access by hostname is not possible.

1.1 External Connections

The following table summarizes the required connections from the Gateway to or from servers outside the organization.

Description	Protocol	Port	Direction	Hostname/URL	Current IP Address
FTP Over HTTP	TCP	20/21	Out		
DNS requests to Internet servers	UDP	53	Out/In		
Kaspersky AV updates	TCP	80	Out	kav-update-8-1.clearswift.net	184.72.245.1
				kav-update-8-2.clearswift.net	79.125.8.252
				kav-update-8-3.clearswift.net	175.41.136.7
				kav-update-8-4.clearswift.net	174.129.26.118
				kav-update-8-5.clearswift.net	176.34.251.142
				kav-update-8-6.clearswift.net	54.254.98.96
Sophos AV updates	TCP	80	Out	sav-update-1.clearswift.net	184.72.245.1
				sav-update-2.clearswift.net	79.125.8.252
				sav-update-3.clearswift.net	175.41.136.7
				sav-update-4.clearswift.net	174.129.26.118
				sav-update-5.clearswift.net	176.34.251.142
				sav-update-6.clearswift.net	54.254.98.96
Clearswift Update Server	TCP	80	Out	repo.clearswift.net	46.51.174.180
				rh.repo.clearswift.net	176.34.178.169
RSS Feed	TCP	80	Out	www.clearswift.com	162.13.22.202
Gateway online help	TCP	80	Out	apphelpweb.clearswift.com	79.125.18.99
Service Availability List	TCP	80	Out	services1.clearswift.net services2.clearswift.net	See https://ip-ranges.amazonaws.com/ip-ranges.json

Description	Protocol	Port	Direction	Hostname/URL	Current IP Address
URL Database Updates	TCP	80	Out	url1.clearswift.net	79.125.3.206
				url2.clearswift.net	184.72.241.7
				url3.clearswift.net	174.129.200.98
				url4.clearswift.net	46.137.169.34
NTP server	UDP	123	Out/In	time.clearswift.net	Forms part of the NTP Pool project (http://www.pool.ntp.org)
Clearswift license key validation	TCP	443	Out	applianceupdate.clearswift.com	86.188.240.24
					213.106.99.208
					46.236.38.70
General HTTPS web access	TCP	443	Out		
WCCPv2	GRE (47)		In		
	TCP	8444	In		
	TCP	9102	In		
PBR	TCP	8444	In		
	TCP	9102	In		

1.2 Internal Connections

The following table summarizes the required connections from the Gateway to or from servers inside the organization.

Description	Protocol	Port	Direction	Comment
FTP/S Backup/Restore	TCP	20/21	Out	
SSH access to the Gateway Console	TCP	22	In	Disabled by default
SFTP Lexical data import	TCP	22	Out	To the server containing the lexical data
SFTP Backup & Restore	TCP	22	Out	To the backup server
SFTP Transaction Log Export	TCP	22	Out	To the log repository server
Outbound SMTP for alerts	TCP	25	Out	
DNS requests to internal servers	UDP	53	Out	
User Authentication using Kerberos	TCP	88	Out	
	UDP	88	Out	

Description	Protocol	Port	Direction	Comment
NTP to internal server	UDP	123	Out/in	By default it is configured to connect to Clearswift NTP server
User Authentication using NTLM	TCP	135	Out	To directory servers
	UDP	137	Out	
	TCP	139	Out	
	TCP	445	Out	
SNMP monitoring	UDP	161	In	From SNMP management servers
SNMP alerts	UDP	162	Out	
LDAP Directory access	TCP	389	Out	The port is configurable
Secure LDAP Directory access	TCP	636	Out	The port is configurable
HTTPS access to the Gateway's Web Interface	TCP	443	In	
HTTPS Lexical data import	TCP	443	Out	To the server containing the lexical data
SYSLOG export	TCP	514	Out	To the central SYSLOG server
FTPS Lexical data import	TCP	990/21	Out	To the server containing the lexical data
FTPS Backup & Restore	TCP	990/21	Out	To the backup server
FTPS Transaction Log Export	TCP	990/21	Out	To the log repository server
SCOM Monitoring	TCP	1270	In	From the SCOM server
LDAP connection to an active directory global catalogue	TCP	3268	Out	
	TCP	3269	Out	
Master/Slave HTTPS configuration – Only if selected	TCP	8071	In (Master)	Communications are always between Master and Slaves. So "In" for Master means "Out" from Slaves to Master
	TCP	8070	In (Slave)	
	TCP	8090	In (Slave)	
Distribution of information to peer appliances	UDP	9000	In/Out	This port is configurable through the Web UI