

# Clearswift SECURE Email Gateway V4.10

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Ports and Protocols

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## Connection Ports and Protocols

The Clearswift SECURE Email Gateway Version 4 requires connectivity to both internal and external services over a number of different ports and protocols.

Clearswift recommends that Email Gateways have unrestricted outbound access to HTTP, HTTP/S and DNS services to permit connections to the various cloud based services used for detection of spam and malware.

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

However, Clearswift appreciates that some customers may wish to restrict access to HTTP, HTTP/S and DNS services using external firewall rules. Clearswift recommends customers configure their firewalls to utilise the Hostname of the service and only use IP addresses if defining access by hostname is not possible.

## DNS configuration

The performance of the DNS servers in use will have an effect on overall message processing rates, therefore choose the fastest most reliable servers. It is advisable not to use large public DNS servers such as Google's 8.8.8.8 service as the behaviour of RBL servers will be impaired.

## HTTP/S Proxy support restrictions

Customers using HTTP/S proxies will suffer from 2 issues

1. If customers are using Avira or Kaspersky AV with Cloud Lookup enabled will not be able to decrypt the 443 traffic due to it being a proprietary protocol, therefore it is advisable to bypass any form of scanning.
2. Customers performing license validation can either bypass content inspection on the proxy or deploy a client certificate to enable the SSL content to be processed and validate the license key correctly.

## External Connections

Item	UDP/ TCP	Port	Details	
TRUSTmanager LiveFeed checks	UDP/ TCP	53 (in/out)	<p>If the Gateway will use an <b>internal DNS</b> then the local DNS servers have full access then no changes are required (which is the norm)</p> <p>If the Gateway is using an <b>external DNS</b> server then the Gateway needs to have unrestricted access to DNS for resolution</p>	
Item	UDP/ TCP	Port	Hostname	IP Address
SMTP	TCP	25	Any	Any
Appliance online help	TCP	80	apphelp.clearswift.com	79.125.18.99
Product and OS updates	TCP	80	Repo.clearswift.net rh.repo.clearswift.net	46.51.174.180 176.34.178.169 54.216.128.43
Avira AV Updates	TCP	80	aav-update-1.clearswift.net aav-update-2.clearswift.net aav-update-3.clearswift.net aav-update-4.clearswift.net	185.155.104.24 70.33.161.213 185.155.104.25 70.33.161.214
Kaspersky AV updates	TCP	80	kav-update-8-1.clearswift.net kav-update-8-2.clearswift.net kav-update-8-3.clearswift.net kav-update-8-4.clearswift.net	185.155.104.24 70.33.161.213 185.155.104.25 70.33.161.214
Sophos AV updates	TCP	80	sav-update-1.clearswift.net sav-update-2.clearswift.net sav-update-3.clearswift.net sav-update-4.clearswift.net	185.155.104.24 70.33.161.213 185.155.104.25 70.33.161.214
SpamLogic Rule/Engine updates	TCP	80	<p>If the customer is using a HTTP Proxy then the HTTP proxy must be able to access the servers listed in Section 4 – Spam Rule updates</p> <p>If the customer is <b>*NOT*</b> using a HTTP Proxy then the Gateway must be able to access the servers listed in Section 4 – Spam Rule updates</p>	
RSS Feed	TCP	80	www.clearswift.com	185.181.126.115
Service availability list	TCP	80	services1.clearswift.net services2.clearswift.net services3.clearswift.net	See <a href="https://ip-ranges.amazonaws.com/ip-ranges.json">https://ip-ranges.amazonaws.com/ip-ranges.json</a>
NTP server	UDP	123	time.clearswift.net (default)	Forms part of the NTP Pool project
Avira APC Cloud lookup	TCP	443	query-api.eu1.apc.avira.com	See <a href="https://ip-ranges.amazonaws.com/ip-ranges.json">https://ip-ranges.amazonaws.com/ip-ranges.json</a>
Kaspersky KSN lookup	TCP	443	ksn1.kaspersky-labs.com ksn2.kaspersky-labs.com ksn3.kaspersky-labs.com ksn4.kaspersky-labs.com ksn-url.geoksn.kaspersky.com	Multiple servers exist and are subject to change
Sophos Cloud Lookups	TCP	443	cls.sophosxl.net	Multiple servers exist and are subject to change

Spam Detection Stats	TCP	80	Clearswiftstat.mailshell.net	45.79.132.16
License key validation	TCP	443	applianceupdate.clearswift.com	86.188.240.24 213.106.99.208 46.236.38.70

## Internal Connections

Item	Protocol	Port
For backing up and restoring the system	TCP	<u>FTP 21</u> <u>FTP/S 21 or 990</u> <u>SFTP 22</u>
Secure console access	TCP	SSH 22
Browser access to the management UI Peer communications	TCP	443
Browser access to the PMM UI	TCP	80
Connecting to directory servers for user authentication (PMM)	TCP	135 139 445
Connecting to directory servers for user authentication (PMM)	UDP	137
For accessing directory servers Accessing Global Catalogue server (normal and secure)	TCP	389 3268 3269 LDAP/S 636
Accessing keyservers over LDAP and LDAP/S	TCP	LDAP 389 LDAP/S 636
Accessing keyservers over HTTP and HTTP/S	TCP	HTTP 11371 HTTP/S 443
Greylisting synchronisation between peers	UDP	19200
SNMP alerts from the system	UDP	162
To the server containing the lexical data HTTP/S, SFTP, FTP/S	TCP	HTTP/S 443 SFTP 22 FTPS 990
To the central SYSLOG server	TCP	514

## Spam Rule Updates

The following servers are accessed by the product to gather update information and to perform real-time checks

- sn12.mailshell.net
- sn60.mailshell.net

- db11.spamcatcher.net
- verio.mailshell.net
- ruledownloads.mailshell.net
- tisdk.mailshell.net

178.79.188.10
82.165.143.243
104.131.131.132
173.255.209.236
173.255.232.151
176.58.112.126
176.58.117.75
212.71.251.168
80.85.85.200
162.216.18.163
173.230.152.57
213.171.205.141
50.21.180.126
50.116.4.68

80.85.85.58
88.208.248.146
178.79.182.43
87.106.141.10
88.80.190.155
104.200.24.34
192.155.86.92
209.157.64.163
209.157.64.164
209.157.64.166
209.157.64.175
209.157.64.177
198.74.58.243

## TRUSTmanager Connections

The following name servers are accessed by the product to verify information about the senders IP and its reputation.

- dnsbl7.mailshell.net
- lbl7.mailshell.net
- lbl8.sn12.mailshell.net
- rules.mailshell.net
- lbl8.mailshell.net

173.255.254.232
198.58.97.43
88.80.184.106
139.162.166.52
209.157.64.166
74.208.79.224
74.208.99.25
74.208.79.219
87.106.214.177
87.106.240.160
176.58.99.196
176.58.99.197
178.79.190.135
178.79.163.250
178.79.164.196

176.58.117.5
178.79.190.174
178.79.138.31
176.58.111.163
178.79.152.167
176.58.112.160
176.58.115.138
50.116.50.102
50.116.50.105
50.116.50.109
173.255.234.85
50.116.2.121
173.255.243.160
198.74.57.188
74.207.240.108

50.116.63.215	178.79.183.81
50.116.63.216	50.116.50.197
50.116.62.242	50.116.50.202
50.116.61.111	66.175.214.89
50.116.14.27	173.255.218.51
173.255.245.232	192.155.87.170
192.155.84.126	192.81.134.251
66.175.223.13	176.58.111.122
50.116.11.250	176.58.111.124
176.58.119.151	176.58.115.39
176.58.101.140	178.79.128.94
85.159.211.160	178.79.150.32
178.79.143.222	

## Change History

Date	Vers	Description
Oct-2018	2.3	Add additional IPs for new AV mirrors (old addresses will be retired)  The following addresses used for AV updates will be retired on 22/11/18 184.72.245.1, 79.125.8.252, 175.41.136.7, 174.129.26.118, 176.34.251.142 and 54.254.98.96
Nov-2018	2.4	Added aav-update[1-4] update servers
April-2019	2.5	Add more details to Cloud lookups