

Clearswift SECURE Exchange Gateway V4.10

Ports and Protocols

Issue 2.5

April 2019

Copyright

Published by Clearswift Ltd.

© 1995–2019 Clearswift Ltd.

All rights reserved.

The materials contained herein are the sole property of Clearswift Ltd unless otherwise stated. The property of Clearswift may not be reproduced or disseminated or transmitted in any form or by any means electronic, mechanical, photocopying, recording, or otherwise stored in any retrievable system or otherwise used in any manner whatsoever, in part or in whole, without the express permission of Clearswift Ltd.

Information in this document may contain references to fictional persons, companies, products and events for illustrative purposes. Any similarities to real persons, companies, products and events are coincidental and Clearswift shall not be liable for any loss suffered as a result of such similarities.

The Clearswift Logo and Clearswift product names are trademarks of Clearswift Ltd. All other trademarks are the property of their respective owners. Clearswift Ltd. (registered number 3367495) is registered in Britain with registered offices at 1310 Waterside, Arlington Business Park, Theale, Reading, Berkshire RG7 4SA, England. Users should ensure that they comply with all national legislation regarding the export, import, and use of cryptography.

Clearswift reserves the right to change any part of this document at any time.

Contents

Connection Ports and Protocols	4
DNS configuration	4
HTTP/S Proxy support restrictions	4
External Connections.....	5
Internal Connections	6
Change History	6

Connection Ports and Protocols

The Clearswift SECURE Email Gateway Version 4 requires connectivity to both internal and external services over several 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, they 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	
DNS	UDP/ TCP	53 (in/out)	<p>If the Gateway will use an internal DNS 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 external DNS server then the Gateway needs to have unrestricted access to DNS for resolution</p>	
Item	UDP/ TCP	Port	URL/Hostname	IP Address
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
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 https://ip-ranges.amazonaws.com/ip-ranges.json
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 https://ip-ranges.amazonaws.com/ip-ranges.json
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
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
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

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