



Whitelisting IPs and Ports Information v2.5 (effective 16-Jun-2022)

If your network implements Firewall restrictions it could stop your terminal or integrated system connecting to our Payment Gateway (PayRouter).

The following describes the IP address subnets with corresponding TCP/UDP ports that require outbound access from your network and need to be whitelisted for outbound access (only).

Please note:

No direct inbound (unsolicited) TCP or UDP port access into your network is required.

Network connections are only ever initiated as outbound connections by the client software running on the customer site.

Opayo will never try to open an inbound connection to a customer site or installation from the hosted service/Internet side.

Here is the current list of TCP and UDP Port numbers the Opayo client software needs to be able to connect to:

Port Numbers	TCP/UDP	Purpose
TCP ports 3000 through 3199	TCP Only	Encrypted PayRouter transaction traffic
TCP ports 4400 through 4499	TCP Only	Code and parameter updating functionality
TCP port 4545	TCP Only	Code and parameter updating functionality
TCP ports 5000 through 5999	TCP Only	Encrypted PayRouter transaction traffic
TCP and UDP ports 53	TCP and UDP	DNS - Name Resolution
TCP port 443	TCP Only	*Only required for specific web reporting, tokenisation and web services
TCP ports 9001-9999	TCP Only	*Only required for specific token proxy, Oracle OPI and custom TLS services (new)

Here is the current list of IP addresses and subnets Opayo client software needs to be able to connect to:

Subnet	Ports	Comment	Note
86.47.188.0/26	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
31.193.220.64/27	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
31.193.220.96/27	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
195.137.204.0/24	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
195.137.205.0/24	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
195.170.169.0/24	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
213.225.230.0/24	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
213.225.231.0/24	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
194.106.141.128/26	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
213.133.66.160/27	Any TCP/UDP port listed above	Essential	This whole range is allocated and managed only by Opayo
8.8.8.8/32	UDP and TCP ports 53 (DNS only)	Not currently used - may be used in future	Google Open DNS Public Resolver
8.8.4.4/32	UDP and TCP ports 53 (DNS only)	Not currently used - may be used in future	Google Open DNS Public Resolver
4.2.2.1/32	UDP and TCP ports 53 (DNS only)	Not currently used - may be used in future	Level 3 Open DNS Public Resolver
4.2.2.2/32	UDP and TCP ports 53 (DNS only)	Not currently used - may be used in future	Level 3 Open DNS Public Resolver
4.2.2.3/32	UDP and TCP ports 53 (DNS only)	Not currently used - may be used in future	Level 3 Open DNS Public Resolver
4.2.2.4/32	UDP and TCP ports 53 (DNS only)	Not currently used - may be used in future	Level 3 Open DNS Public Resolver
83.71.135.0/30	Any TCP/UDP port listed above	Not currently used - may be used in future	This whole range is allocated and managed only by Opayo

Here is the current list of Opayo registered DNS domains that Opayo client software will [only] attempt to resolve (through DNS Servers)

DNS Domain Name	Comment
*.payrouter.net	Will resolve to an IP address contained within the ranges listed above
*.selfsignedcerts.net	Will resolve to an IP address contained within the ranges listed above (new)
*.tokenproxy.net	Will resolve to an IP address contained within the ranges listed above (new)

Imperva Web Application Firewall Service subnets for:
Virtual Terminal, Web Services and Web Based Reporting

<https://docs.imperva.com/howto/c85245b7>

199.83.128.0/21

198.143.32.0/19

149.126.72.0/21

103.28.248.0/22

45.64.64.0/22

185.11.124.0/22

192.230.64.0/18

107.154.0.0/16

45.60.0.0/16

45.223.0.0/16