

TCP/IP Ports Used by Orchestrator and Silver Peak Appliances

The following tables list the default ports used by Orchestrator and Silver Peak Appliances.

Orchestrator as a Server

Application	Protocol & Port
Outbound	
FTP ¹	TCP 21
SCP ¹	TCP 22
SSH	TCP 22
SMTP	TCP 25
TACACS+	TCP 49
HTTP	TCP 80
HTTPS ²	TCP 443
SMTPS	TCP 465, 587
DNS	TCP/UDP 53
NTP	UDP 123
Audit Log ³	UDP 514
Syslog ³	UDP 514
RADIUS ⁴	UDP 1812, 1813
Inbound	
SSH (optional)	TCP 22
HTTP	TCP 80
HTTPS ⁵	TCP 443

1. FTP and SCP are optional and used as backups to customer-owned servers in the on-prem version of Orchestrator. You can always use the HTTPS port, as it is already allowed. This is not applicable to Orchestrator-as-a-service.
2. Orchestrator communicates with Cloud Portal over both HTTPS and Websockets over TLS 1.2.
3. Audit log and Syslog ports are configurable.
4. These ports may differ. Verify the ports are the same as the server during configuration.
5. Inbound HTTPS connections can be restricted to authorized subnets only. EdgeConnect talks on these ports.

Orchestrator as a Client

Application	Protocol & Port
Google Maps ¹ (optional)	TCP 443
AWS ²	TCP 443

1. Access to Google Maps is to populate the topology view charts.
2. Connect to AWS S3 for case files and sysdump uploads. If you need to enable access through a firewall, you can allow only outbound connections to *.s3.amazonaws.com. Refer to [this page](#) for more information — the Silver Peak S3 bucket is the us-east-1 region. If outbound access is prohibited, users can manually download files from Orchestrator and attach to new or existing cases.

Appliance as a Server

Application	Protocol & Port
HTTPS	TCP 443

Appliance as a Client

Application	Protocol & Port
TACACS+	TCP 49
HTTPS	TCP 443
DNS	TCP/UDP 53
NTP	UDP 123
SNMP	UDP 161
Syslog	UDP 514
RADIUS ¹	UDP 1812, 1813
IPFIX ²	UDP 2055

1. These ports may differ. Verify the ports are the same as the server during configuration.
2. The IPFIX port is configurable.

Data Plane

Application	Protocol & Port
GRE	IP PROTO 47
IPSEC	IP PROTO 50, UDP 500, UDP 4500
UDP	UDP 4163
IPSEC_UDP ¹	UDP 12000, UDP 12001

1. These ports may differ. The port will be the same as what you set the default UDP port in the Orchestrator settings during configuration.