

TCP/IP Ports used for listening by the Orchestrator and Silver Peak appliances



Following are lists of ports that are used by the appliances and by the Orchestrator.

If you intend to use a port, make sure that it is open in the firewall(s).

Ports used by the Orchestrator

Following is the list of ports used by the Orchestrator. All are part of the management plane.

It is mandatory for certain ports to be open. Opening other ports is optional (opt.), depending on your network, applications, and chosen deployment.

Must open port?	TCP	UDP	Port	Application	Direction relative to the GMS	Comments
yes	x		22	SSH	bidirectional	CLI (Command Line Interface) access over SSH
yes	x		443	HTTPS	bidirectional	communications between the Orchestrator and a physical or virtual appliance
opt.	x		21	FTP	outgoing	for Orchestrator backup This is the default port. If you've configured a different port, then you also need to configure the firewall with that port number.
opt.	x		22	SCP	outgoing	for Orchestrator backup This is the default port. If you've configured a different port, then you also need to configure the firewall with that port number.
opt.	x		49	TACACS+	outgoing	user authentication and authorization
opt.	x	x	53	DNS	outgoing	domain name services
opt.	x		80	HTTP	outgoing	If the appliance's web configuration is for HTTP only , then you must open this port.
opt.		x	123	NTP	outgoing	synchronizes clocks
opt.		x	1812	RADIUS	outgoing	user authentication and authorization

Ports used by the Silver Peak Appliances

Data Plane

This is for packets that traverse the optimization path. For creating tunnels, at least one of the first three applications — GRE, IPsec, or UDP — must be open.

Must open?	Application	Ports and Protocols	Use
yes	GRE	Protocol 47	If tunnel mode is GRE
yes	IPsec	Protocol ESP 50; UDP port 500 (for IKE key exchange)	If tunnel mode is IPsec
yes	UDP	UDP Port 4163	If tunnel mode is UDP
yes	ICMP	Protocol 1	Checks reachability of next-hop routers
opt.	flow redirection	TCP Port 4164 and UDP Port 4164	If flow redirection is enabled and clustered via routers
opt.	VRRP	Protocol 112	For VRRP protocol messages
opt.	WCCP protocol	UDP Port 2048	For WCCP redirection
opt.	WCCP GRE tunnel	Protocol 47	If L3 WCCP redirection is enabled, then Protocol 47 is used to redirect traffic between WCCP router and VXOA appliance, in both directions.

Management Plane

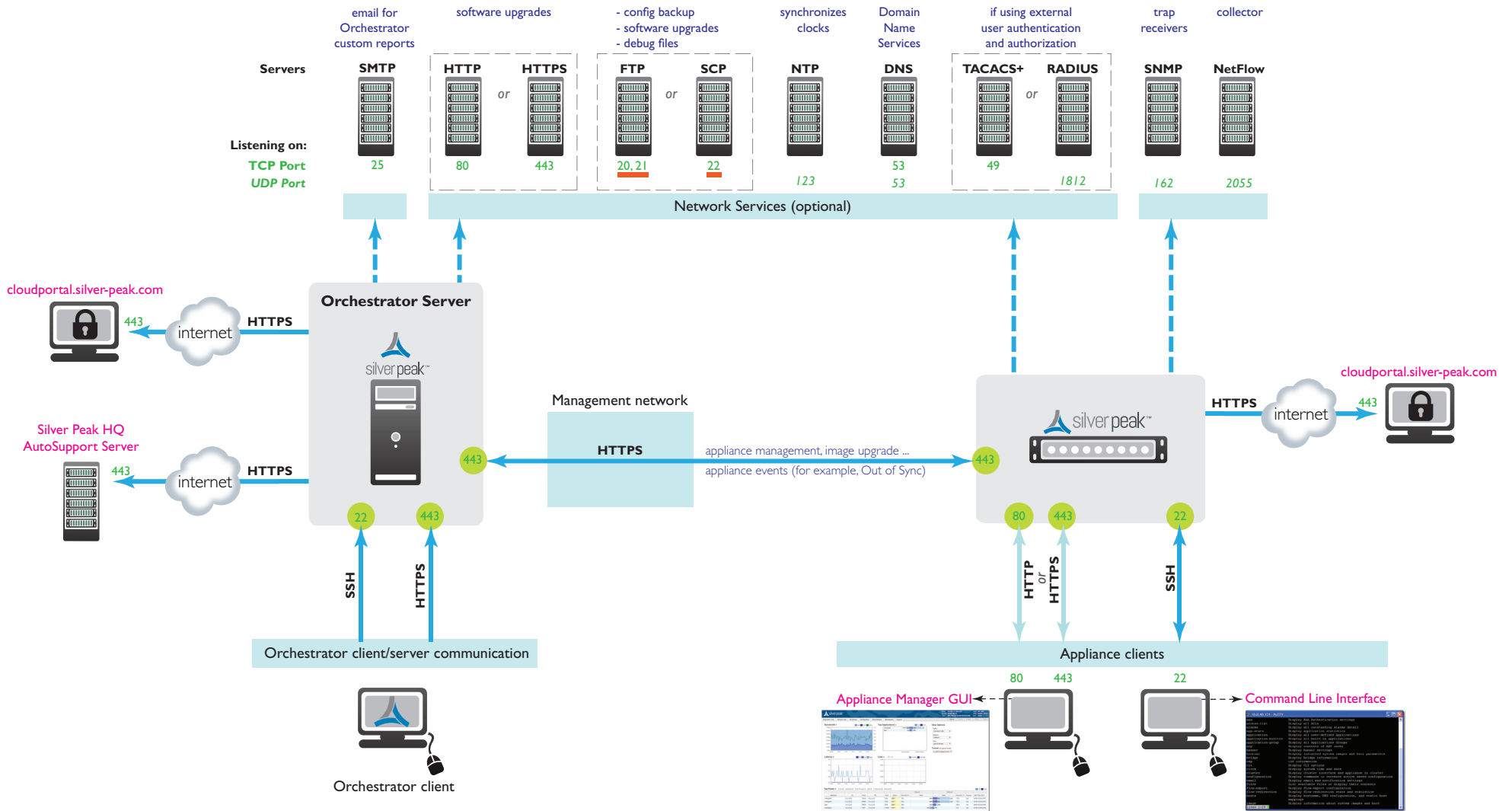
It is mandatory for certain ports to be open. Opening other ports is optional (opt.), depending on your network, applications, and chosen deployment.

Must open port?	TCP	UDP	Port	Application	Direction relative to the appliance	Used for ...
yes	x		22	SCP	bidirectional	<ul style="list-style-type: none"> configuration backup software upgrades
yes	x		80	HTTP	bidirectional	communication with VXOA clients and with the Orchestrator
yes	x		443	HTTPS	bidirectional	communication with NX clients
opt.	x		20 [data channel] 21 [control channel]	FTP	bidirectional	<ul style="list-style-type: none"> configuration backup software upgrades
opt.	x		49	TACACS+	outgoing	user authentication and authorization
opt.	x	x	53	DNS	outgoing	domain name services
opt.		x	123	NTP	outgoing	synchronizes clocks
opt.		x	1812	RADIUS	outgoing	user authentication and authorization
opt.		x	162	SNMP	outgoing	SNMP trap receivers
opt.		x	2055	Netflow	outgoing	Netflow collector

TCP/IP ports used for listening by the Orchestrator and Silver Peak appliances Management Plane

LEGEND

- # = mandatory port(s)
- 21 = underline indicates a user-configurable default port



TCP/IP ports used by the GMS and the Silver Peak appliances
Data Plane

