

Secure Remote Services

Release 3.34

Port Requirements

REV 2

March 1, 2019

Note: EMC Secure Remote Services (ESRS) is being rebranded to Secure Remote Services (SRS). This change is not reflected in the user interface as of the time of this publication. Consequently, the screen samples in this document do not reflect the rebranding.

This document contains supplemental information about Secure Remote Services (SRS), Release 3.34. SRS 3.34 is the virtual edition of SRS. This document includes the following topics:

- ◆ Communication between SRS and Dell EMC 2
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Note: Some ports used by SRS and devices may be registered for use by other parties, or may not be registered by Dell EMC. Dell EMC is addressing these registration issues. In the meantime, be aware that all ports listed for use by the SRS servers and devices will be in use by the Dell EMC applications listed.

Communication between SRS and Dell EMC

To enable communication between your Secure Remote Services (SRS) Virtual Edition Server and Dell EMC, you must configure your external network and/or firewalls to allow traffic over the specific ports as shown in [Table 1 on page 5](#). These tables identify the installation site network firewall configuration open-port requirements for SRS. The protocol/ports number and direction are identified relative to the SRS servers and storage devices. [Figure 1 on page 3](#) shows the communication paths.

Communication between SRS and Policy Manager

To enable communication between SRS and Policy Manager, you must configure your internal firewalls to allow traffic over the specific ports as shown in [Table 1 on page 5](#). These tables identify the installation site network firewall configuration open-port requirements for SRS. The protocol/ports number and direction are identified relative to the SRS servers and storage devices. [Figure 1 on page 3](#) shows the communication paths.

Communication between SRS and devices

There are two connection requirements between the SRS server and your managed devices:

- ◆ The first is the communication between SRS and your managed devices for remote access connections. SRS secures remote access connections to your Dell EMC[®] devices by using a session-based IP port-mapped solution.
- ◆ The second communication requirement is between SRS and your managed devices for Connect Home messages. SRS brokers Connect Home file transfers from your managed devices that support Connect Home through SRS, thus ensuring secure transport, authorization, and auditing for those transfers.

To enable communication between SRS and your devices, you must configure your internal firewalls to allow traffic over the specific ports as shown in [Table 1 on page 5](#) and [Table 2 on page 7](#). These tables identify the installation site network firewall configuration open-port requirements for SRS IP. The protocol/ports number and

direction are identified relative to the SRS servers and storage devices. [Figure 1 on page 3](#) shows the communication paths.

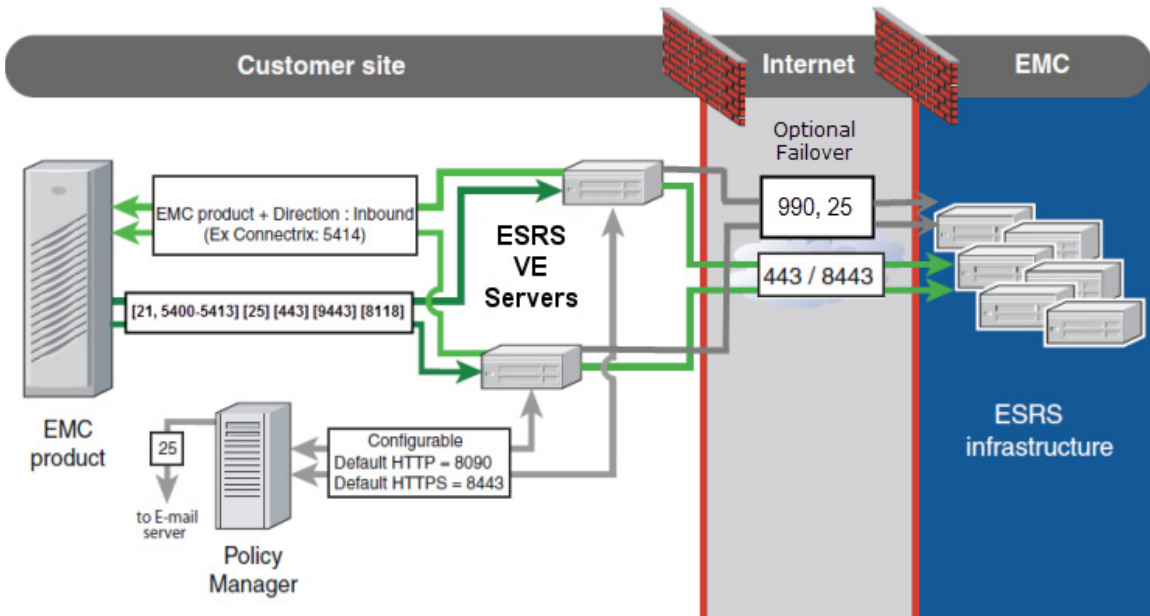


Figure 1 Port diagram for generic Dell EMC managed product

Note: For the optional failover, ports 990 and 25 are used on the SRS Virtual Edition outbound to Dell EMC *only* when the failover Connect Home is configured for FTPS and/or the email option is used as the failover channel.

Port requirements for SRS and Policy Manager (PM) servers

Table 1 on page 5 lists the port requirements as follows:

Note: See Knowledgebase (KB) Article 494729, “What IP addresses are used by Secure Remote Services IP Solution.” You can access this article through <https://support.emc.com/kb/494729>.

Table 1 Port requirements for SRS and Policy Manager servers

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel; Support objective (frequency)	
SRS	HTTPS 443		Outbound	to Dell EMC	Client service	Service notification, setup, all traffic except remote support	N/A	
	HTTPS 443 and 8443		Outbound	to Dell EMC Global Access Servers (GAS)	Client service	Remote support	N/A	
	IMPORTANT: Port 8443 is not required for functionality, however without this port being opened, there will be a significant decrease in remote support performance, which will directly impact the time to resolve the issues on the end devices.							
	Port 990 for Connect Home failover (if configured)	Supports Connect Home failover if the SRS Channel is unavailable	Outbound	FTPS to Dell EMC FEP				
	HTTPS 443	Usage of the HTTPS for the inbound service notifications is dependent on the version of ConnectEMC used by the managed device. For more information, refer to the product documentation. If configured, you MUST use the customer SMTP server.	Inbound	from Managed device (Dell EMC product)	Apache httpd listener	Service notification from device	N/A	
	Port 9443 HTTPS 9443	<ul style="list-style-type: none"> Customer access to SRS GUI Use HTTPS 9443 for making RESTful service calls to add/remove/update managed devices, to send Connect Homes, to utilize Managed File Transfer (MFT), and to send device heartbeat check to SRS 	Inbound	<ul style="list-style-type: none"> from customer network from Managed device (Dell EMC product) 	<ul style="list-style-type: none"> SRS Virtual Edition Web UI SRS Virtual Edition REST Communication Channel 	<ul style="list-style-type: none"> SRSv3 server Management traffic Service notification from device 	N/A	
	Port 22	Customer access to SRS Virtual Edition console	Inbound	from customer network	CLI (via SSH)	SRSv3 server Management traffic	N/A	
	Passive FTP ports: 21, 5400–5413	During the SRS-IP installer execution, the value for Passive Port Range in FTP is set to 21 and 5400 through 5413 . This range indicates the data channel ports available for response to the PASV commands. See RFC 959 for the passive FTP definition. These ports are used for the Passive FTP mode of the Connect Home messages as well as for the GWExt loading and output. GWExt uses HTTPS by default but can be configured to use FTP.	Inbound	from Managed device (Dell EMC product)	SRS: Apache httpdftp	Service notification from device	N/A	
	SMTP 25	<ul style="list-style-type: none"> Acts as failover if heartbeat fails Alert customer's contact 	Outbound	from SRS Virtual Edition	Customer's email server	Service notification	N/A	
		Process Connect Home files	Inbound	from SRS monitored devices	SRS: postfix	Action request	N/A	
	IMPORTANT: When opening the ports for the devices in Table 2, you must also open the same ports on the SRS server, identified as "Inbound from SRS Virtual Edition (VE) server".							
		HTTP (configurable) Default = 8090		Outbound	to Policy Manager	Client service	Policy query	N/A
	HTTPS 8443							
	HTTP 8118	To support SRS proxy	Inbound	To Gateway	Proxy client	Services eLicensing requests and inbound traffic to the gateway for MFT. Leveraged by standalone embedded SRS Device Clients.	N/A	

Port requirements for SRS and Policy Manager (PM) servers

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	<i>Performed by authorized Dell EMC Global Services personnel; Support objective (frequency)</i>
Policy Manager	HTTP (configurable) Default = 8090		Inbound	from SRS Clients (and customer network)	Policy Manager service	Policy query (and policy management by customer)	N/A
	HTTPS 8443		Outbound			to Customer email server	
	SMTP 25						

Port requirements for devices

Table 2 on page 7 lists the port requirements for Dell EMC devices.



IMPORTANT

The SRS team highly recommends using CEC- HTTPS transport protocol as FTP and SMTP are plain text protocols.

Note: Any device using REST to communicate to SRS will use port 9443 on the gateway (that is, HTTPS 9443 needs to be opened from device to SRS).

Note: If using integrated model see product documentation.

Table 2 Port requirements for devices

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)
Atmos®	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	N/A
	Passive FTP			to SRS or to Customer SMTP server			
	SMTP		Inbound	from SRS	CLI (via SSH)	Remote support	Administration (occasional)
	22				Secure Web UI		Troubleshooting (frequent)
443							
Avamar®	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a				ConnectEMC		
	Passive FTP						
	SMTP		Inbound	from SRS	to SRS or to Customer SMTP server	Remote support	Administration (occasional)
	22				CLI (via SSH)		
	443	AVInstaller					
	80, 443, 8778, 8779, 8780, 8781, 8580, 8543, 9443, 7778, 7779, 7780, and 7781	Enterprise Manager					
7778, 7779, 7780, 7781, and 9443	MCGUI						

Port requirements for devices

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -of- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)	
Celerra®	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	Note: NAS code 5.5.30.x and earlier supports only FTP; NAS code 5.5.31.x supports both FTP and SMTP for Connect Home by using SRS.	
	Passive FTP							
	SMTP							
	All of: 80, 443, and 8000	Inbound	from SRS	Celerra Manager (Web UI)	Remote support	Administration (occasional)		
22	Troubleshooting (frequent)							
	23	This Telnet port should be enabled only if SSH (port 22) cannot be used.			Telnet		Troubleshooting (rare) Use <i>only</i> if CLI cannot be used	
Dell EMC Centera®	SMTP		Outbound	to Customer SMTP server	ConnectEMC	Service notification	N/A	
	Both 3218 and 3682		Inbound	from SRS	Dell EMC Centera Viewer	Remote support	Diagnostics (frequent)	
	22	CLI (via SSH)			Troubleshooting (frequent)			
CLARiiON® and CLARiiON portion of EDL	HTTPS ^a	The service notification for CLARiiON and EDL is supported only on the centrally managed devices via a management server. For the service notifications, the distributed CLARiiON devices (including EDL) use SRS or the Customer email server (SMTP).	Outbound	to SRS	ConnectEMC	Service notification	N/A	
	Passive FTP ^a							
	SMTP							
	13456		Inbound	from SRS	KTCONS, RemoteKTrace	Remote support	Troubleshooting (occasional)	
	Both 80 and 443, or optionally (depending on configuration), both 2162 and 2163	For more information, refer to the CLARiiON documentation.			Navisphere Manager; also allows Navisphere SecureCLI		Administration (frequent) for Navisphere Manager	
	9519				RemotelyAnywhere, RemoteKTrace		Troubleshooting (frequent) for Navisphere SecureCLI	
	5414				EMCRemote			
	All of: 6389, 6390				Navisphere CLI			
	6391, 6392						Remote Diagnostic Agent	Diagnostics (occasional)
	9519, 22						RemoteKTrace	Administration (occasional)
CloudArray	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A	
	HTTPS ^a							
	Passive FTP ^a							
	SMTP							
	41022	Inbound	from SRS	CLI (via SSH)	Remote support	Administration (occasional)		
	443			BMCUI CLOUDARRAYUI		Troubleshooting (frequent)		

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -of- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)
CloudBoost	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a				ConnectEMC or DialEMC		
	Passive FTP ^a						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Administration (occasional)
CloudIQ-CLTR	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a				ConnectEMC or DialEMC		
	Passive FTP ^a						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Administration (occasional)
Connectrix [®]	HTTPS ^a	When using Connectrix Manager	Outbound	to SRS	ConnectEMC or DialEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP						
	HTTPS 9443	When using CMCNE 14.0.1+	Inbound	from SRS	REST	Remote support	Troubleshooting (frequent)
	5414				EMCRemote		
	3389				Remote desktop		
	22				CLI (via SSH)		
Customer Management Station	5414		Inbound	from SRS	EMCRemote	Remote support	Troubleshooting (frequent)
	9519				RemotelyAnywhere		
	3389				Remote desktop		
	80, 443, 8443				WebHTTP/HTTPS		
	22				CLI (via SSH)		
Data Domain	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	443, 25, 21				ConnectEMC		
	80, 443	This Telnet port should be enabled <i>only</i> if SSH (port 22) cannot be used.	Inbound	from SRS	Enterprise Manager	Remote support	Administration (occasional) Troubleshooting (frequent)
	22				CLI (via SSH)	Remote support	Administration (occasional) Troubleshooting (frequent)
	23				Telnet		Troubleshooting (rare) Use <i>only</i> if CLI cannot be used
DellEMC Symphony	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
DL3D Engine	SMTP		Outbound	to Customer SMTP server	CentOS	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	443	Secure Web UI					
	11576	EDL Mgt Console					

Port requirements for devices

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)
DLm, DLm3, DLm4	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	80, 443, 8000				Celerra Manager (Only for DLm)		
80, 443				DLmConsole (Only for DLm3 and DLm4)			
23	This Telnet port should be enabled only if SSH (port 22) cannot be used.			Telnet (Only for DLm)		Troubleshooting (rare) Use <i>only</i> if CLI cannot be used	
DPA	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a				ConnectEMC		
	Passive FTP ^a						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
9002, 9003, 9004	DPA GUI						
3389	Remote desktop						
DPAppliance	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	8543				DPAppliance ACM		
443	Data Protection Search UI, vSphere Web Client, iDRAC Web						
DSSD	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a				ConnectEMC		
	Passive FTP ^a						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
ElasticCloudStorage (ECS)	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP						
	HTTPS 9443				REST		
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	80, 443, 4443				ECS UI		

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel; Support objective (frequency)
EDL Engine (except DL3D)	HTTPS ^a	The service notification for EDL is supported only on the centrally managed devices via a management server. For the service notifications, the distributed CLARiiON devices (including EDL) use SRS or the Customer email server (SMTP).	Outbound	to SRS	ConnectEMC	Service notification	
	Passive FTP ^a						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	11576	EDL Mgt Console			Administration (occasional)		
443	Secure Web UI	Diagnostics (occasional)					
Embedded NAS (eNAS)	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	2022						Troubleshooting (rare)
Dell EMC Enterprise Copy Data Management	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a	ConnectEMC					
	Passive FTP						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	9000	Skyline UI					
	14443	SkylineUpgradeUI					
8443	SkylineRESTAPIUI						
Greenplum Data Computing Appliance (DCA) [®]	HTTPS ^a		Outbound	to Customer SMTP server	ConnectEMC	Service notification	
	Passive FTP						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	N/A	Administration (occasional) Troubleshooting (frequent)
Invista [®] Element Manager	HTTPS ^a		Outbound	to SRS	ConnectEMC	N/A	Troubleshooting (frequent)
	Passive FTP ^a						
	SMTP						
Invista CPCs	5414		Inbound	from SRS	EMCRemote	N/A	Troubleshooting (frequent)
	All of: 80, 443, 2162, and 2163	Invista Element Manager and InvistaSecCLI					
	5201, 6390, 6391, 6392	ClassicCLI (InvistaCLI)					

Port requirements for devices

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)
Isilon®	HTTPS 9443	<ul style="list-style-type: none"> Within Isilon OneFS 7.1, the isi_gather_info script will send the Isilon log file back to Dell EMC via MFT using port 8118 on SRS. All other Connect Homes will use ConnectEMC to send the files to SRS using HTTPS, Passive FTP, or SMTP. MFT for Isilon is not considered full MFT and therefore is not handled as such in the SRS Web UI. 	Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a				ConnectEMC		
	Passive FTP						
	SMTP						
	Managed File Transfer (MFT) 8118		ISI-Gather Log Process	Configuration information			
22		Inbound	from SRS	CLI (via SSH)	Remote support	Administration (occasional)	
8080				Secure Web UI		Troubleshooting (frequent)	
NetWorker	HTTPS 9443		Outbound	to SRS	REST	Service notification	NA
	7938		Inbound	from SRS		N/A	Monitoring/polling
Neutrino®	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	80, 443	Neutrino® UI					
PowerPath	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Administration (occasional) Troubleshooting (frequent)
Recover-Point	REST		Outbound	to SRS	REST	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	80, 443, and 7225	RecoverPoint Management GUI					
ScaleIO	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	6611		Inbound	from SRS	ScaleIOClient	Remote support	Troubleshooting (frequent)
	22	CLI (via SSH)					
	3389	Remote desktop					
Switch–Brocade-B	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	SMTP	Requires separate Windows monitoring workstation running Fabric Manager Server 5.x or higher		to Customer SMTP server			
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	23	This Telnet port should be enabled only if SSH (port 22) cannot be used.			Telnet		Troubleshooting (rare) Use <i>only</i> if CLI cannot be used
	3389				Remote desktop		Troubleshooting (frequent)

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)
Switch–Cisco	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	SMTP	Requires separate Windows monitoring workstation running Fabric Manager Server 5.x or higher		to Customer SMTP server			
	22	SSH must be enabled and configured.	Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	23	This Telnet port should be enabled <i>only</i> if SSH (port 22) cannot be used.		Telnet	Troubleshooting (rare) Use <i>only</i> if CLI cannot be used		
Symmetrix®	HTTPS ^a		Outbound	to SRS	ConnectEMC or DialEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP						
	HTTPS 9443		Inbound	from SRS	RemotelyAnywhere EMCRemote SGBD/Swuch/ Chat Server/Remote Browser/InlineCS	Remote support	Troubleshooting (frequent)
	9519						
	5414						Advanced troubleshooting (by Dell EMC Symmetrix Engineering) (rare)
Unity®/UnityVSA	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	80, 443				Unisphere		
Unisphere	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
VCE Vision	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	22 443		Inbound	from SRS	CLI (via SSH) Secure Web UI	Remote support	Troubleshooting (frequent)
ViPR	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP		Inbound	from SRS	CLI (via SSH) ViPR Management GUI (ViPRUI)	Remote support	Troubleshooting (frequent)
	22 443, 4443, 80						
ViPR SRM	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a				ConnectEMC		
	Passive FTP ^a						
	SMTP		Inbound	from SRS	CLI (via SSH) Remote desktop ViPRSRM UI	Remote support	Troubleshooting (frequent)
	22						
	3389						
	58443, 58080						

Port requirements for devices

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)
VMAX ³	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP		Inbound	from SRS	REST/MFT- VMAX ³	Remote support	Troubleshooting (frequent)
	HTTPS 9443						
	22						
	5414						
	4444, 5555, 7000						
	7000						
	9519						
	5555, 23004, 23003, 1300						
5555, 23004							
VNX [®]	HTTPS ^a		Outbound	to SRS	ConnectEMC	Service notification	N/A
	Passive FTP ^a						
	SMTP		Inbound	from SRS	MFT	Remote support	Troubleshooting (occasional) Administration (frequent) Troubleshooting (frequent)
	HTTPS 9443						
	13456						
	13456, 13457						
	9519						
	22, 2022						
	80, 443, 2162, 2163, 8000						
	6391, 6392, 60020						
VNXe [®]	HTTPS ^a		Outbound	to Customer SMTP server	ConnectEMC	Service notification	N/A
	Passive FTP						
	SMTP		Inbound	from SRS	MFT	Remote support	Administration (occasional) Troubleshooting (frequent)
	HTTPS 9443						
	22, 2022						
	80 and 443						
VPLEX [®]	SMTP		Outbound	to SRS	ConnectEMC	Service notification	N/A
					CLI (via SSH)		
	443		Inbound	from SRS	Invista Element Manager	Remote support	Troubleshooting (frequent)
	22				CLI (via SSH)		Advanced troubleshooting (by Dell EMC Symmetrix Engineering) (rare)

Dell EMC product	TCP port or Protocol	Notes for port settings	Direction open	Source -or- Destination	Application name	Communication (network traffic) type	Performed by authorized Dell EMC Global Services personnel: Support objective (frequency)
VxRack FLEX	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	8080		Inbound	from SRS	Secure Web UI	Remote Support	Troubleshooting (frequent)
	3389	Remote desktop					
	22	CLI (via SSH)					
VxRack SDDC	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
VxRail (VSPEX BLUE [®])	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a	ConnectEMC					
	Passive FTP						
	SMTP						
	22		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
XtremIO [®]	HTTPS 9443		Outbound	to SRS	REST	Service notification	N/A
	HTTPS ^a	ConnectEMC					
	Passive FTP ^a						
	SMTP						
	22, 80, 443		Inbound	from SRS	CLI (via SSH)	Remote support	Troubleshooting (frequent)
	80, 443, 42502	XTREMIOGUI					
<p>a. The use of HTTPS for service notifications is dependent on the version of ConnectEMC used by the managed device. For more information, refer to the product documentation. The default port for HTTPS is 443. The value for Passive Port Range in FTP is set to 21 and 5400 through 5413. This range indicates the data channel ports available for the response to the PASV commands. These ports are used for the Passive FTP mode of the Connect Home messages as well as for the GWExt loading and output.</p> <p>Note: If connectivity is restricted to allow only communication from your products to the SRS VE, then Dell EMC will only be able to receive connect home information and will not be able to use SRS to connect in remotely to your products. Customers choosing this configuration should have alternate connect-in means available.</p>							

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