

Information about Network Ports

- [Network Management Traffic for NMIS](#)
- [Network Management User Traffic for NMIS](#)

For NMIS to function, certain network ports must be enabled for communication.

Network Management Traffic for NMIS

The following table shows the traffic required for using NMIS and complementary applications, e.g. using opConfig for configuration collection.

Port #	Protocol	Service name	Connection Initiation	Application	Notes
161	UDP	SNMP	Server to Device	NMIS	
162	UDP	SNMP Traps	Device to Server	NMIS	
123	UDP	NTP	Device to NTP Server	NMIS	
514	UDP/TCP	syslog	Device to syslog Server	NMIS	syslogd, syslog-ng
22	TCP	SSH	Server to Device	opConfig	
23	TCP	Telnet	Server to Device	opConfig	
389	TCP	LDAP	Server to LDAP Server	NMIS	NMIS Authentication
49	TCP	TACACS+	Device to TACACS Server	NMIS	NMIS Authentication
123	UDP	NTP	NMS Server to NTP Server	NMIS	
80 or 443	TCP	HTTP or HTTPS	NMIS Master to NMIS Poller	NMIS opHA	

Network Management User Traffic for NMIS

The following table shows the traffic required for a user to communicate with NMIS or for NMIS to communicate to the user.

User	Port Number	Protocol	Service Name	Direction (of establishment) of connection
Customer	80/443	TCP	HTTP/HTTPS	Customer to NMIS Server
NOC User	80/443	TCP	HTTP/HTTPS	NOC to NMIS Server
NOC Admin	22	TCP	SSH	NOC to Server
Email Notifications	25 or 465 or 587	TCP	SMTP or SMTP/SSL	NMIS Server to Mail Server