

# Reference Guide

## Port Communication to Quantum® RUDDER

(Firewall Rules for Quantum® RUDDER)

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The table below list ports that must be opened or allowed in the network firewall to ensure that Quantum® RUDDER (Quantum® Cloud Controller), managed Access Points, and RADIUS servers can communicate with each other.

Port Number	Protocol	From	To	Purpose
80	TCP	All QN Devices	rudder.qntmnet.com	Quantum® RUDDER web access (auto redirection to https)
443	TCP	All QN Devices	rudder.qntmnet.com	Secured access to Quantum® RUDDER
2232	TCP	All QN Devices	rudder.qntmnet.com	Management tunnel to Quantum® RUDDER
1883	TCP	All QN Devices	rudder.qntmnet.com	Used for management and reporting data
7777	TCP	All QN Devices	rudder.qntmnet.com,	Secure Communication between Switch to Switching server
123	UDP,TCP	All QN Devices	ntp.qntmnet.com	Time Synchronization

**Note:**

- For firewall rule - allow [rudder.qntmnet.com](http://rudder.qntmnet.com)