



# Manage SNMP

## Element Software

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# Manage SNMP

## Learn about SNMP

You can configure Simple Network Management Protocol (SNMP) in your cluster.

You can select an SNMP requestor, select which version of SNMP to use, identify the SNMP User-based Security Model (USM) user, and configure traps to monitor the SolidFire cluster. You can also view and access management information base files.



You can use both IPv4 and IPv6 addresses.

### SNMP details

On the SNMP page of the Cluster tab, you can view the following information.

- **SNMP MIBs**

The MIB files that are available for you to view or download.

- **General SNMP Settings**

You can enable or disable SNMP. After you enable SNMP, you can choose which version to use. If using version 2, you can add requestors, and if using version 3, you can set up USM users.

- **SNMP Trap Settings**

You can identify which traps you want to capture. You can set the host, port, and community string for each trap recipient.

## Configure an SNMP requestor

When SNMP version 2 is enabled, you can enable or disable a requestor, and configure requestors to receive authorized SNMP requests.

1. Click **Cluster** > **SNMP**.
2. Under **General SNMP Settings**, click **Yes** to enable SNMP.
3. From the **Version** list, select **Version 2**.
4. In the **Requestors** section, enter the **Community String** and **Network** information.



By default, the community string is public, and the network is localhost. You can change these default settings.

5. **Optional:** To add another requestor, click **Add a Requestor** and enter the **Community String** and **Network** information.
6. Click **Save Changes**.

## Find more information

- [Configure SNMP traps](#)
- [View managed object data using management information base files](#)

## Configure an SNMP USM user

When you enable SNMP version 3, you need to configure a USM user to receive authorized SNMP requests.

1. Click **Cluster > SNMP**.
2. Under **General SNMP Settings**, click **Yes** to enable SNMP.
3. From the **Version** list, select **Version 3**.
4. In the **USM Users** section, enter the name, password, and passphrase.
5. **Optional:** To add another USM user, click **Add a USM User** and enter the name, password, and passphrase.
6. Click **Save Changes**.

## Configure SNMP traps

System administrators can use SNMP traps, also referred to as notifications, to monitor the health of the SolidFire cluster.

When SNMP traps are enabled, the SolidFire cluster generates traps associated with event log entries and system alerts. To receive SNMP notifications, you need to choose the traps that should be generated and identify the recipients of the trap information. By default, no traps are generated.

1. Click **Cluster > SNMP**.
2. Select one or more types of traps in the **SNMP Trap Settings** section that the system should generate:
  - Cluster Fault Traps
  - Cluster Resolved Fault Traps
  - Cluster Event Traps
3. In the **Trap Recipients** section, enter the host, port, and community string information for a recipient.
4. **Optional:** To add another trap recipient, click **Add a Trap Recipient** and enter host, port, and community string information.
5. Click **Save Changes**.

## View managed object data using management information base files

You can view and download the management information base (MIB) files used to define each of the managed objects. The SNMP feature supports read-only access to those objects defined in the SolidFire-StorageCluster-MIB.

The statistical data provided in the MIB shows system activity for the following:

- Cluster statistics
- Volume statistics
- Volumes by account statistics
- Node statistics
- Other data such as reports, errors, and system events

The system also supports access to the MIB file containing the upper level access points (OIDs) to SF-Series products.

### Steps

1. Click **Cluster > SNMP**.
2. Under **SNMP MIBs**, click the MIB file you want to download.
3. In the resulting download window, open or save the MIB file.

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