How to Configure SNMP Trap in AccelStor All-Flash Array

Version History

Version	Changed	Date
V1.0	First release	20170603

SNMP Trap

SNMP (Simple Network Management Protocol) is used to manage network connected systems. It has a simple set of operations that allow devices to be managed remotely. A network connected system consists of one or more remotely managed devices. Managers control a device by sending SNMP messages to SNMP agent software installed in the device. SNMP agents send an event or notification to managers when a given condition is met. These are sent as SNMP trap messages.
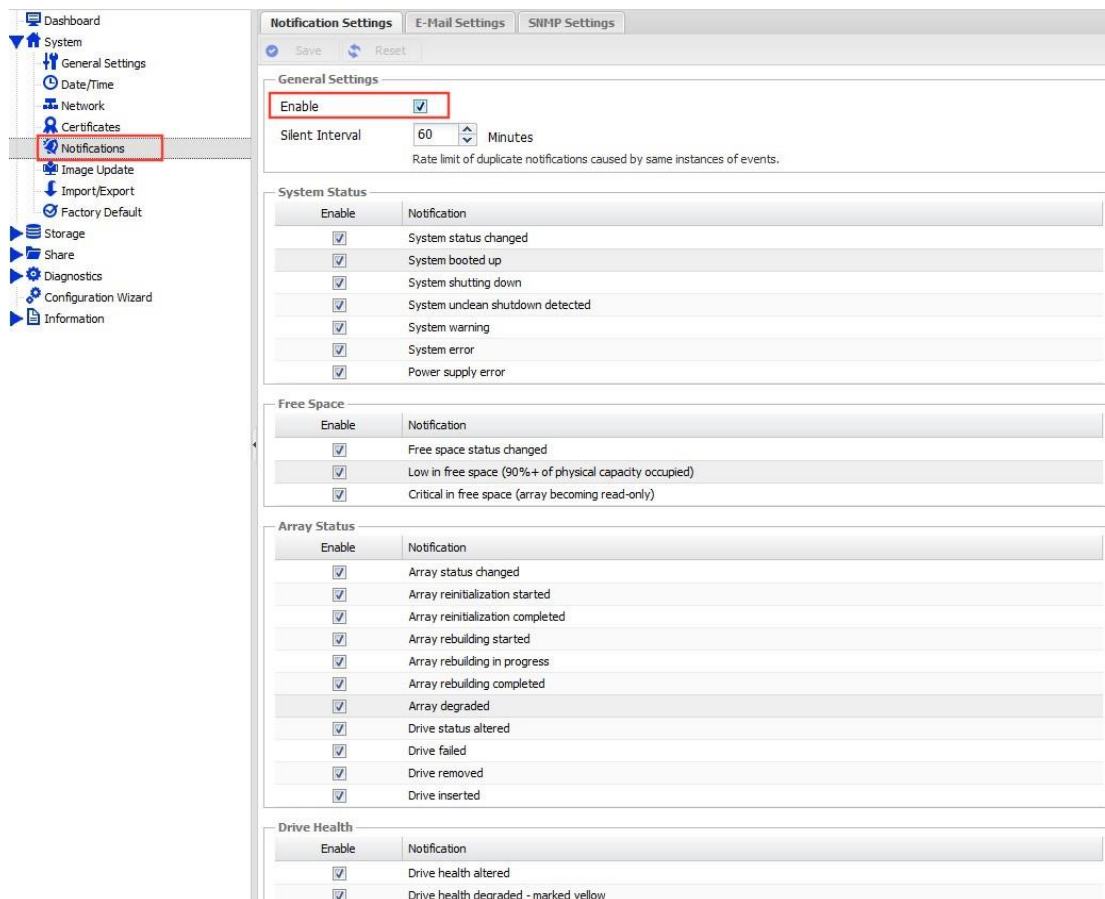
An introduction about how to configure SNMP trap service follows below.

NeoSapphire GUI

1. On the menu to the left, select **System** -> **Notifications** and check **Enable**.

For administrative purposes, there are many event notifications available that have been categorized into 4 groups: **System Status**, **Free Space**, **Array Status** and **Drive Health**.

Select some or all of the items as needed.

2. Switch to the **SNMP Settings** tab and enable **SNMP Control**.

Notification Settings | **E-Mail Settings** | **SNMP Settings**

✓ Save   ↻ Reset   ⬇ Download MIB   ✉ Send Test Trap

SNMP Control

Enable   ☐

3. Enter the IP address of the **Receiver Host** (the SNMP management server) and click **Save**.

✓ Save   ↻ Reset   ⬇ Download MIB   ✉ Send Test Trap

SNMP Control

Enable   ☑

Trap Configuration

Version	2c
Community	public
Receiver Host	10.144.1.141
	This field should be a domainname or an IP address
Receiver Port	162

Click **Apply** and **Yes** to complete the configuration.

⚠ The configuration has been changed. You must apply the changes in order for them to take effect.   ✓ Apply

| Parameters	
Version	Version of SNMP protocol to use for the trap. Default is 2c. (Note: only community-based SNMPv2c is supported.)
Community	The communities configured in the community menu to use when sending out the trap. (Note: please enter your exact SNMP trap community name given by the network monitoring software setting on the server. Public is a string for read-only community; private is for read-write community.)
Receiver Host	Enter host information. IP address and host name are allowed, not the local host information.
Receiver Port	Specify that port number 162 is set to default for SNMP trap; it can be modified to the same port number as the above host server.
Download MIB	Acquire AccelStor-defined Management Information Base (MIB) file. Import this MIB file into your trap receiver application/SW. Once you get the trap notifications, you don't have to look up the Object ID (OID) from the MIB.
Send Test Trap	Validate settings are correct.

SNMP Management Server

1. You need SNMP trap software to receive event trap notifications. For demonstration purposes, there is ample free software available. Choose one with support for SNMP trap functionality. (Note: for commercial use, please purchase a genuine copy.) In this document, the SNMP browser is used for demonstration. You can download it from <u>here</u>.

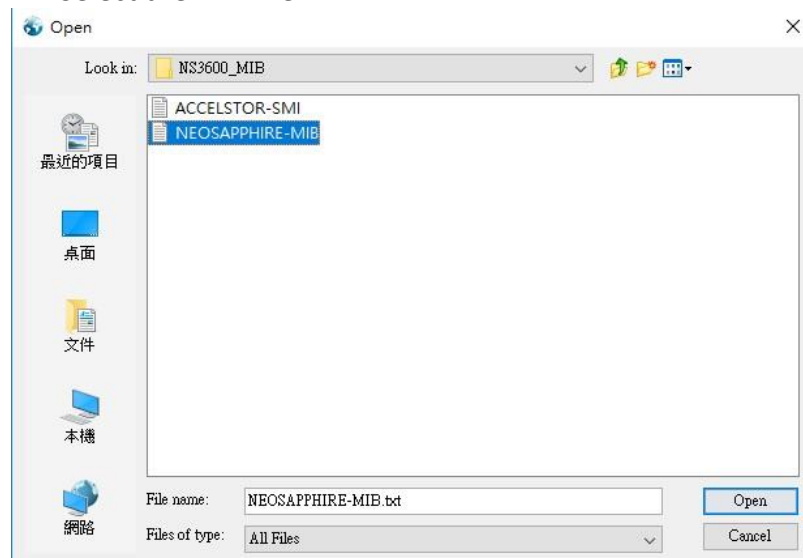2. Download and unzip the MIB file from the management interface on NeoSapphire.
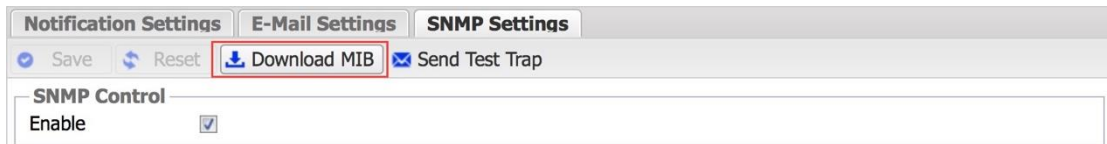
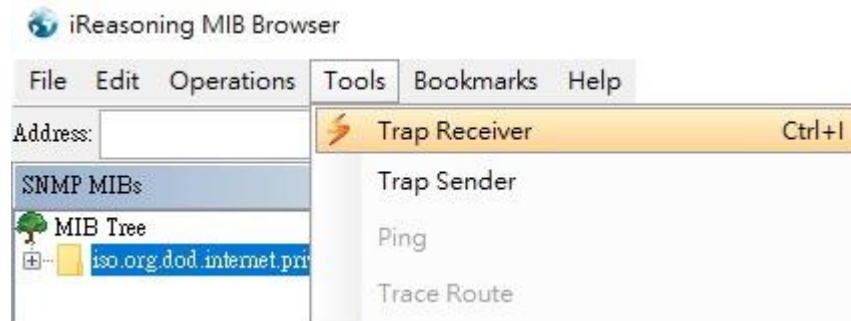3. Load the MIB into the SNMP browser.
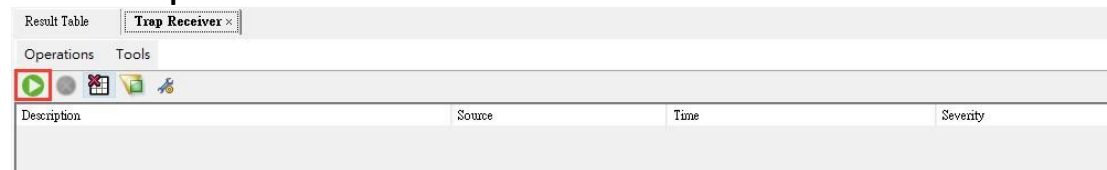
1.
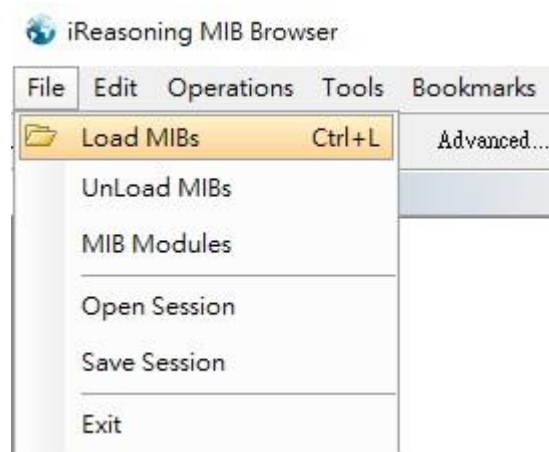
4. Select the MIB file.

Test Result

1. Enable **Trap Receiver** in the SNMP browser.

2. Start **Trap Receiver**.

3. In the NeoSapphire management interface, click **Send Test Trap**.

4. Check to ensure that the **Trap Receiver** received the test trap notification.