

SERVERSCHECK

www.serverscheck.com

**Quick Installation Guide
For Sensors with OpManager**

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Document Overview

This document outlines the integration with the ServersCheck PoE & SNMP sensors with the open source and free Manage Engine's OpManager software. This document assumes that a sensor was configured on the network as per user manual instructions.

The manual can be downloaded from www.serverscheck.com/sensors/manual.asp. This document also assumes that OpManager has been installed on a system and the user is knowledgeable with the SNMP technology. For more information on OpManager, please visit <https://www.manageengine.com/network-monitoring/>

For this guide our gateway's SNMP settings is as shown below

SNMP Settings

SNMP Agent

Enable SNMP Agent

Port:

Version:

SNMP v2 Community

Read Community:

Write Community:

SNMP v3 USM

Username:

Auth Key:

Privacy Key:

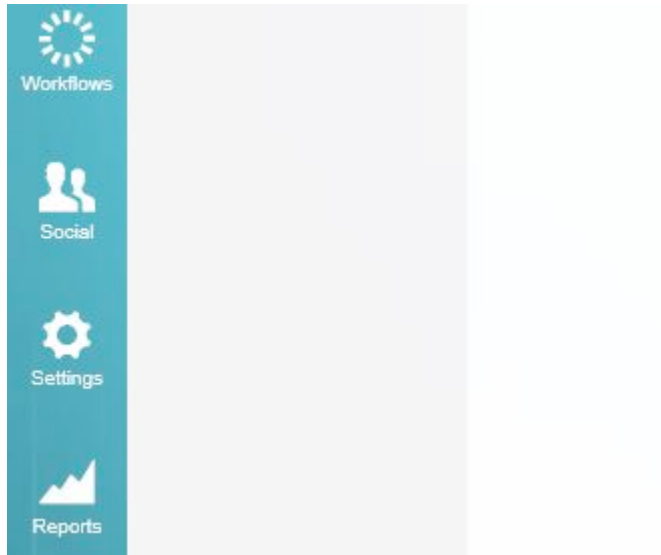
Protocol:

Protocol:

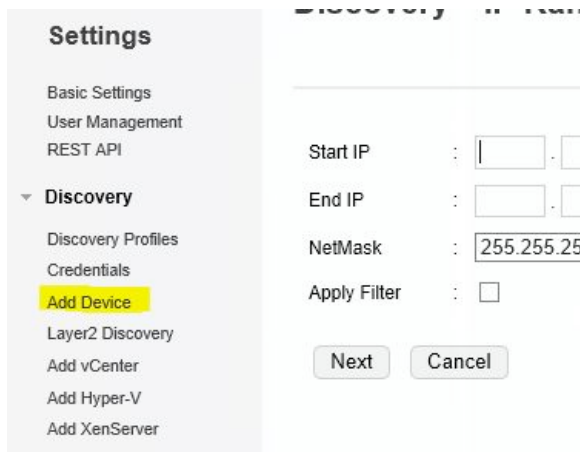
SNMP Tran

Guide to add a ServersCheck device.

1. Open the software and then click on “Settings” on the left side of the page



2. Under settings Click on Discovery then “Add Device”



3. Place the IP address of the gateway then click on Add Credentials.

Add Device

Device Name / IP Address	:	<input type="text" value="192.168.9.26"/>	x
Netmask	:	<input type="text" value="255.255.255.0"/>	
Credentials to use	:	<input type="button" value="+ Add Credential"/>	

4. Then complete the form with the credentials that you have configured on your Gateway then click on save. (For this example we named the credentials as SNMPCred)

Add Credential

Credential Type	<input type="text" value="SNMP v1/v2"/>	▼
Name	<input type="text" value="SNMPCred"/>	
Description	<input type="text"/>	↑ ↓
SNMP Read	<input type="text" value="public"/>	
SNMP Write	<input type="text" value="private"/>	x
SNMP Port	<input type="text" value="161"/>	
SNMP Timeout (secs)	<input type="text" value="5"/>	
SNMP Retries	<input type="text" value="0"/>	

5. Click discover and make sure the Credentials you created for the gateway is checked, after a couple of seconds the device should be added.

Add Device

Device Name / IP Address	:	<input type="text" value="192.168.9.26"/>
Netmask	:	<input type="text" value="255.255.255.0"/>
Credentials to use	:	<input type="button" value="+ Add Credential"/>


Select All
 SNMP v1/v2

- Public
- SNMPCred
- snmpG

6. After discovering the gateway we now need to add a template so that we can integrate the specific values that we need to monitor. Click on Settings again located on the right panel then click on the Configuration Tab then Device Template.

7. On the Upper right corner click on “Add New” you will now be in New Device Template, Fill up the form and then click on Query Device. Add the IP address of your gateway along with its community string and make sure the right version of SNMP is chosen.

Click on Query, if it is successful the base OID of the gateway would show.

Device Image 

Device Identifier

Monitors

8. Next is to click Add Monitors, and then click on SNMP.

Add Monitors + Add Bulk | + SNMP

Vendor Monitors

9. Another form would appear and you have to complete the form for each type of sensor you want to monitor. Below is an example for the built in temperature sensor each of our gateway has.

Vendor Name

New Monitor

SNMP OID

Monitor Name

Display Name

Description

Functional Expression

Interval (mins)

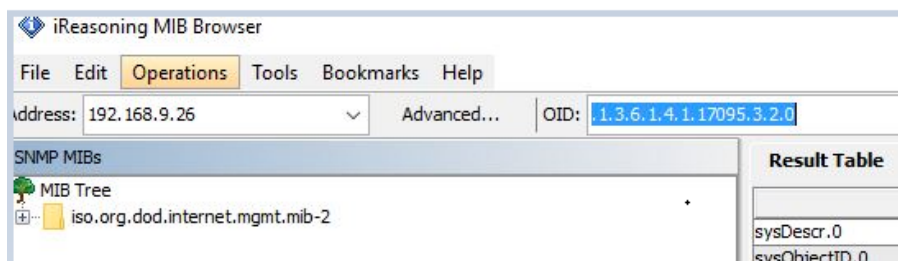
Units

Store Data Yes,I need graphs No,just alert

Threshold Details

	Condition	Value	Message
Attention Threshold	< ▼	45	\$MONITOR is \$CURRENTVALUE \$UNITS,
Trouble Threshold	< ▼	40	\$MONITOR is \$CURRENTVALUE \$UNITS,
Critical Threshold	< ▼	35	\$MONITOR is \$CURRENTVALUE \$UNITS,
Rearm Value	> ▼	50 <input type="button" value="x"/>	\$MONITOR is \$CURRENTVALUE \$UNITS,
Consecutive Times		<input type="text" value="1"/>	

Note: The SNMP OID .1.3.6.1.4.1.17095.3.2.0 is the value for the internal temperature reading and to know the OID of specific values you need an MIB browser to explore the gateway. An example of that is the iReasoning software. (for more information see link <http://www.ireasoning.com/mibbrowser.shtml>)

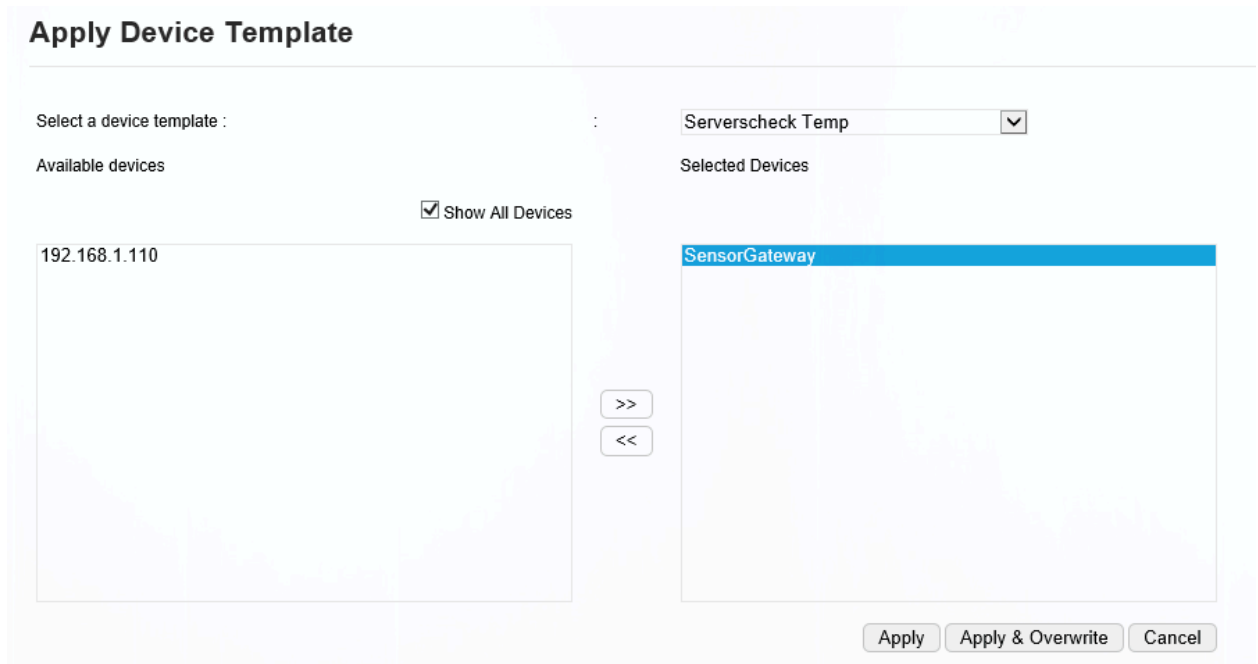


To scan the OID's we have to perform an SNMP Walk

Name/OID	Value	Type	IP:Port
sysDescr.0	Temperature & Sensor Gateway	OctetString	192.168.9.26
sysObjectID.0	.1.3.6.1.4.1.17095	OID	192.168.9.26
sysUpTime.0	116 hours 29 minutes 35 seconds (41937512)	TimeTicks	192.168.9.26
sysContact.0	http://www.serverscheck.com	OctetString	192.168.9.26
sysName.0	SensorGateway	OctetString	192.168.9.26
sysLocation.0	Data Center	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.1.1.0	Temperature & Sensor Gateway	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.1.2.0	Beta 7.01	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.1.3.0	Feb 5 2016	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.1.4.0	SensorGateway	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.1.5.0	Data Center	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.1.6.0	192.168.9.26	IpAddress	192.168.9.26
.1.3.6.1.4.1.17095.1.7.0	192.168.9.1	IpAddress	192.168.9.26
.1.3.6.1.4.1.17095.1.8.0	4.2.2.2	IpAddress	192.168.9.26
.1.3.6.1.4.1.17095.1.9.0	8.8.8.8	IpAddress	192.168.9.26
.1.3.6.1.4.1.17095.3.1.0	Int. Temp1	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.3.2.0	26.63	OctetString	192.168.9.26
.1.3.6.1.4.1.17095.3.3.0	-	OctetString	192.168.9.26

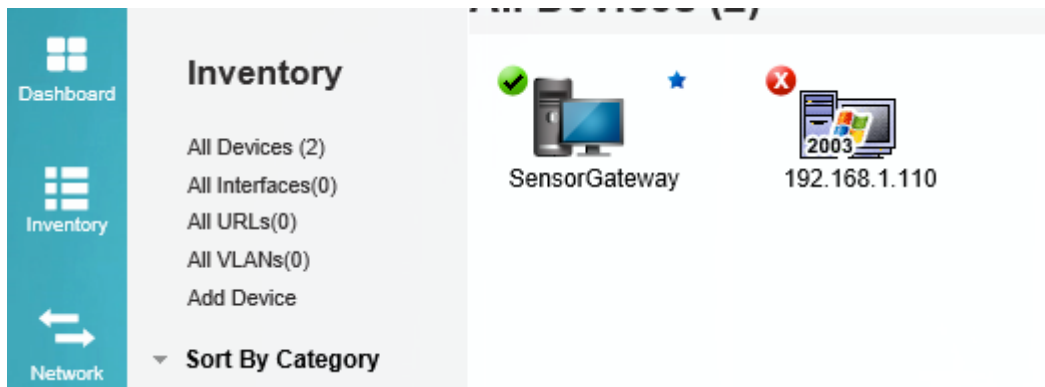
(if your software requires an MIB file you can download it from our site)
<https://serverscheck.com/support/downloads.asp>

- Now that we have added the Gateway (device) and the device template (unit to monitor) We will now proceed to have it shown on your dashboard. 1st we have to perform an association by going back to “Device Template” and then on the upper right corner click on “Associate”.



Choose the device template you have created and then move all the units/devices to the right window which the template would be applied for.

- Now on the left panel click on “Inventory” then click on the device you have applied the template for. Then click on the “Monitors” Tab.



12. You should now see if the sensors are within the threshold limits that you have set on the template.

SensorGateway SNMP



192.168.9.26 | Unknown | Serverscheck Temp | SNMP

Summary	Alerts	Monitors	Graphs	Notifications	Workflow	Interfaces	Apps
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▼ ● Performance Monitors					
<input type="checkbox"/>	Monitors	Protocol	Polling Interval	Threshold	L
1	<input type="checkbox"/> Serverscheck Temperature	SNMP	1	Normal	

This is the end of the guide as you can now add specific OID's of the specific values that you need to monitor on your OpManager Software. And customise to your needs.