

SERVERSCHECK

www.serverscheck.com

Quick Installation Guide For Sensors with Cacti

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1. Document Overview

This document outlines the integration with the ServersCheck PoE & SNMP sensors with the open source and free Cacti monitoring software.

This document assumes that a sensor was configured to the network user manual instructions. The manual can be downloaded from <http://wiki.serverscheck.com>

This document also assumes that Cacti has been installed on a system. For more information on Cacti please visit <http://www.cacti.net>

2. Enabling SNMP on the sensor

The SensorGateway supports 2 kinds of SNMP messages:

- Pulling: a network management systems requests status for the sensors through SNMP get requests
- Pushing: the SensorGateway pushing SNMP notifications (called SNMP Traps) to network or building management systems

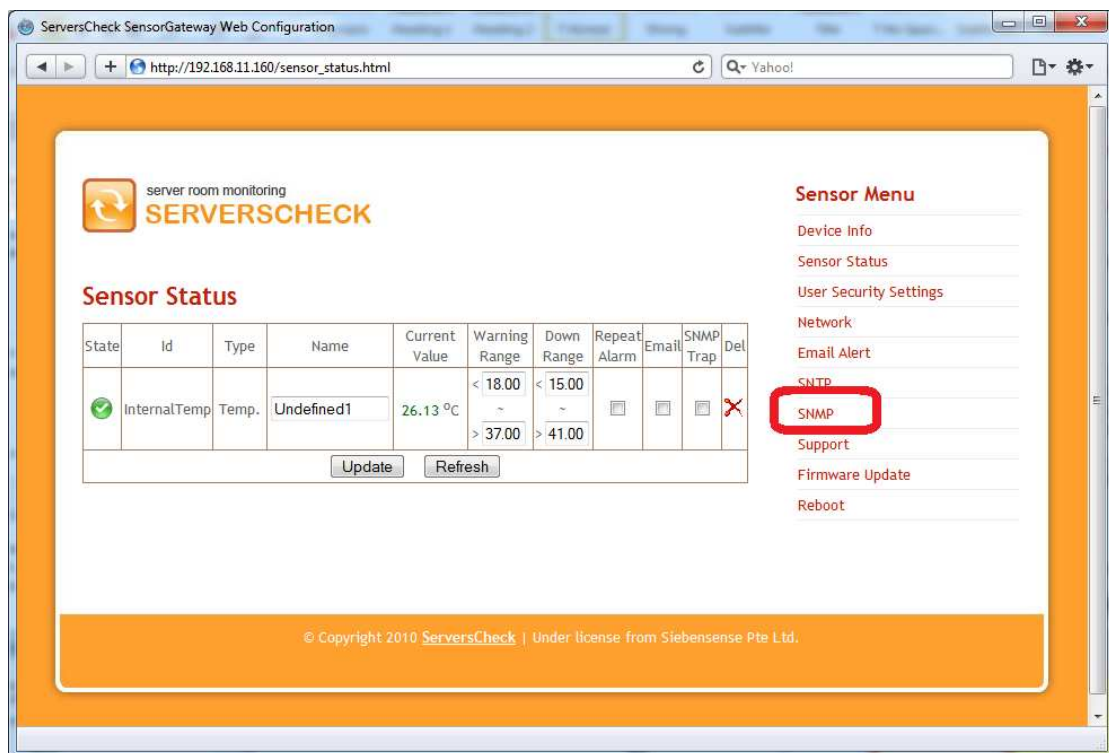
3.1 SNMP Get Requests

In the SensorGateway the built-in SNMP agent needs to be enabled to allow for querying of the sensor by external applications using the SNMP GET protocol.

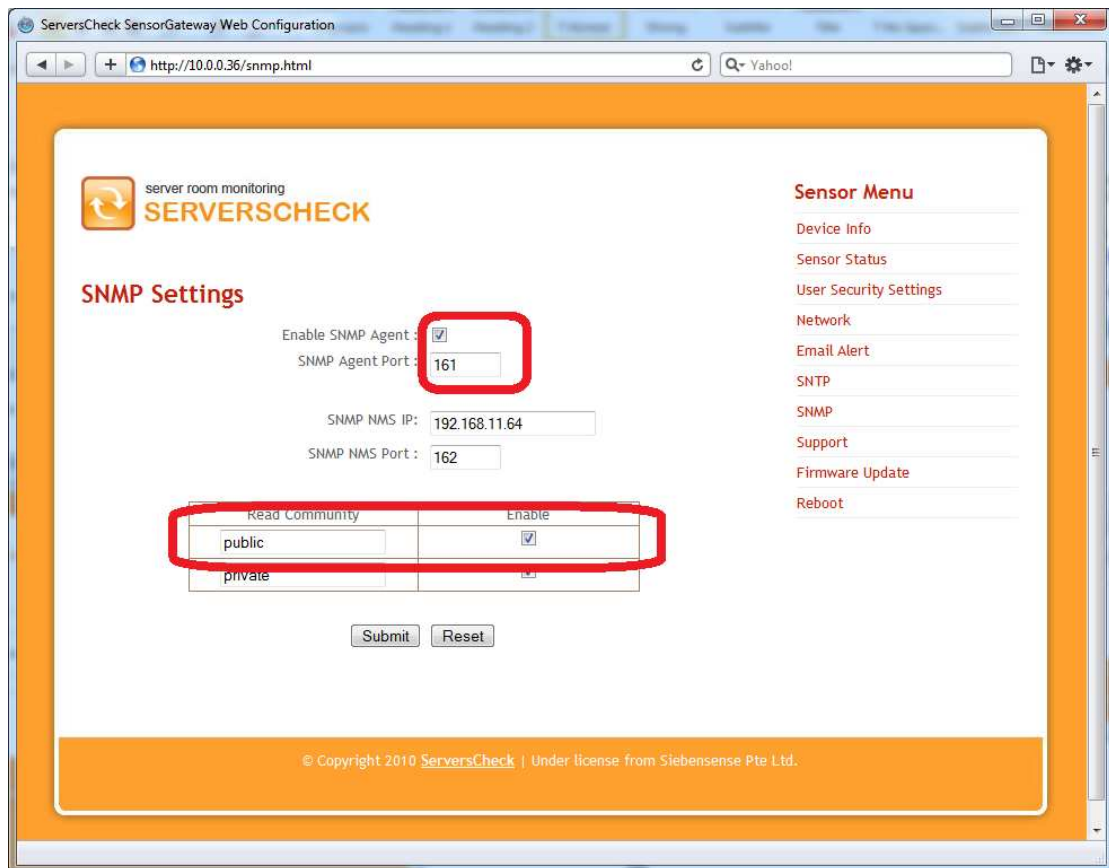
The SensorGateway has its own MIB file which can be downloaded here:

<http://downloads.serverscheck.com/sensors/sensorgateway.mib>

To enable SNMP, connect to the SensorGateway and click on the **SNMP** menu option



You need now to enable the SNMP Agent (default port for this UDP 161). If you want to use a different community string, then you can change the value too.



Click on the **Submit** button when done.

SNMP is now enabled on the sensor.

3. Integrating with Cacti

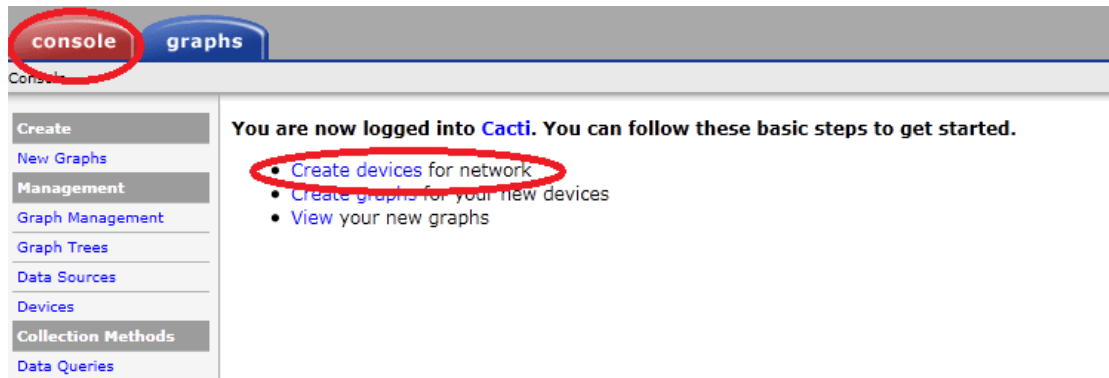
A default Cacti installation will work with the ServersCheck SNMP & PoE sensors out the box.

In order to integrate the sensors with Cacti, you need to do following:

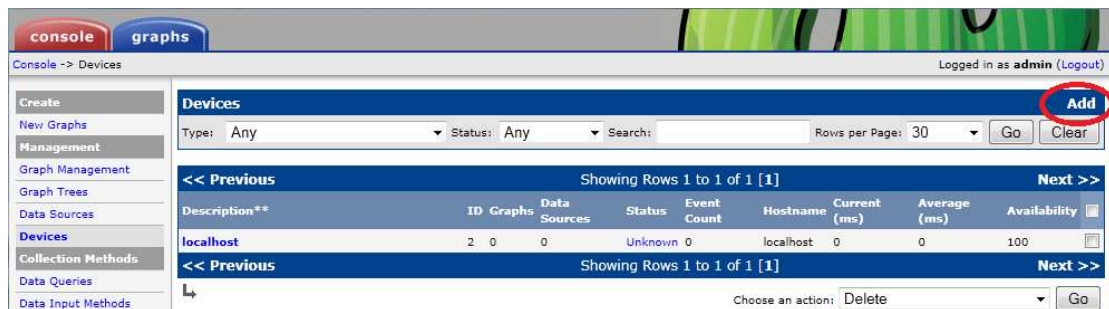
- a) Add the sensor as a new device
- b) Configure graphs for the sensor

3.1. Adding the sensor as a new device

Click on the **Console** tab and then on **Create devices**



In the following window click on the **Add** link



Enter a name for the sensor in the **Description** field
 The **Hostname** can either be the IP address or domain name of the sensor
 As a **Host Template** select **Generic SNMP-enabled Host**
 To avoid false positives, we recommend setting the **Ping Retry Count** to 2 or higher

Other parameters should not be changed from default values.

Click on the **Create** button

Save Successful.

Sensor1 (demo.serverscheck.info)

SNMP Information

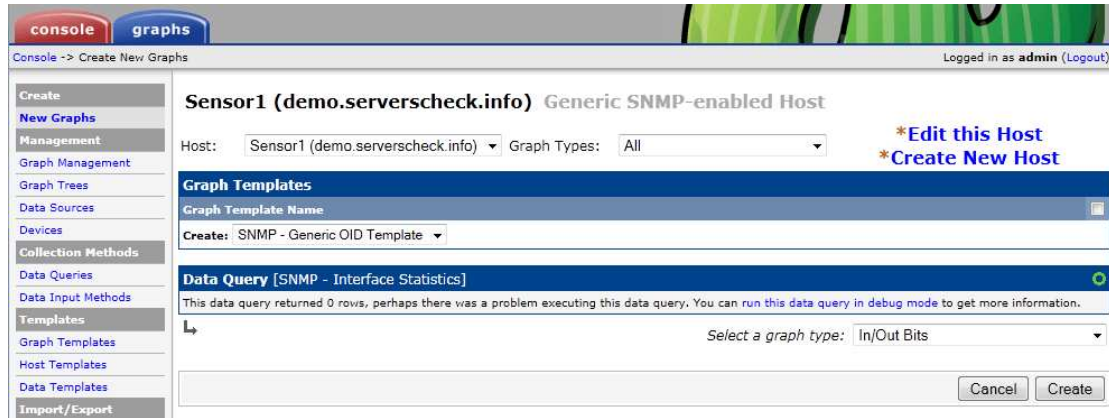
System: Temperature & Sensor Gateway
 Uptime: 4808859 (0 days, 13 hours, 21 minutes)
 Hostname: Sensor Gateway: SC-T801
 Location: Europe Data Center
 Contact: http://www.serverscheck.com

- [* Create Graphs for this Host](#)
- [* Data Source List](#)
- [* Graph List](#)

3.2. Adding the graphs to the device

Click on the **Create Graphs for this Host** link

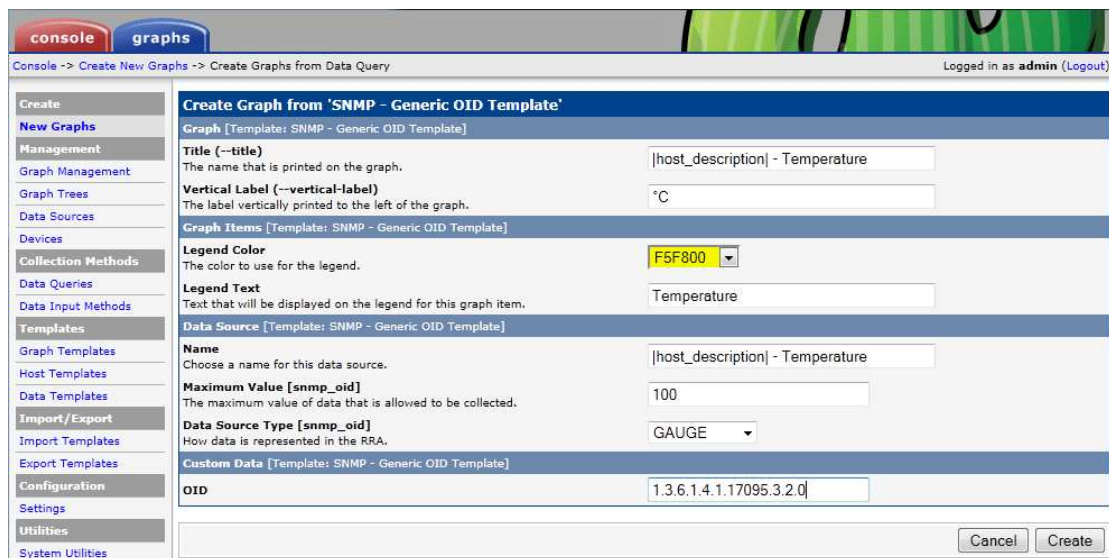
Select “Generic OID Template” and click on the **Create** button



The sensor has 3 OID's that are important for Cacti:

- 1.3.6.1.4.1.17095.3.2.0 - reading from built-in temperature sensor
- 1.3.6.1.4.1.17095.3.6.0 - reading from external probe (temperature, flooding, airflow, power failure, fuel level)
- 1.3.6.1.4.1.17095.3.10.0 - reading from the external probe (humidity)

In this example we are going to use OID 1.3.6.1.4.1.17095.3.2.0 This is the value for the built-in temperature sensor in the Sensor Gateway



All fields can be left to their default value except for the OID.

Fill in the correct OID and click on the **Create** button.