

www.serverscheck.com

Quick Installation Guide For Sensors with Solarwinds Network Performance Monitor Software

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Document Overview

This document outlines the integration with the ServersCheck PoE & SNMP sensors with the Solarwinds NPM monitoring software. This document assumes that a sensor was configured on the network as per user manual instructions.

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

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

SNMP Settings

SNMP Agent

Enable SNMP Agent 🕑 Port: 161	Version:	SNMPv2 ▼
SNMP v2 Community		
Read Community: public		
Write Community: private		
SNMP v3 USM		
Username: Serversched	:k	
Auth Key:	Protocol:	MD5 🔻
auth12345y:	Protocol:	AES 🔻
priv12345		
SNMP Tran		

Guide on how to add a ServersCheck device to a Solarwinds NPM Software.

Adding the SensorGateway

1. Open the Solarwinds NPM software. If the Discovery Wizard does not start automatically after configuration, click Settings - Network Discovery.

Click Add New Discovery, and then click Start.

or on the Network Panel, add the IP address you want to search

Network Sonar Wiza	rd
	LIZATION $ ightarrow$ SNMP $ ightarrow$ WINDOWS $ ightarrow$ MONITORING SETTINGS $ ightarrow$ DISC
Network Selection How do you want to add device maximum of 512 devices at a ti	es to Orion monitor? You can use one or more of the options be ime.
IP RANGES	+ Add Range
SUBNETS	(+) Add ~
IP ADDRESSES ()	Write one IP address or hostname per line:
	192.168.9.29
	VALIDATE
ACTIVE DIRECTORY	+ Add Active Directory Domain Controller to query

2. On the SNMP Panel:

Put in the SNMP credentials, it could be SNMP v1, SNMP v2c or SNMP V3. If you uses the community string other that public or private, click Add Credentials and provide the required information.

Add New Credential				
SNMP Version:				
SNMP v3 Credential				
Choose Credential:				
<new credential=""> ¥</new>				
U New .				
User Name:				
Authentieties Methods	None	-	December of (Keys	
Authentication Method:	None	•	Password / Key:	×
Privacy / Encryption Method:	None	Ŧ	Password / Key:	×
ADD CANCEL				

3. Go to Discovery Scheduling, provide the frequency and run the discovery immediately for you to search for the device.

Network Sonar Wizard		
NETWORK AGENTS VIRTUALIZATION SNMP WINDOWS MONITORING SETTINGS DIS	COVERY SETTINGS	
Discovery Scheduling Configure a schedule for your discovery.		
Frequency: Once		
	BACK	DISCOVER

4. Once finished discovering, you could now select the Device Types to Import

Network Sonar Results Wizard					
Dev Selec	ice Type	es to Import ce types to monitor.			
✓	Count	Device Type			
\checkmark	1	Serverscheck Gateway			
			NEXT		

- 5. When the import completes, click Finish
- 6. Click the My Dashboards summary to explore the device



Updating the MIB file on the Solarwinds Database

Solarwinds has already preloaded MIB files in its database. But to load the MIB file specific to the Serverscheck Sensorgateway, you may follow these instructions:

1. Download the MIB file from Serverscheck Website https://serverscheck.com/support/downloads.asp 2. Copy the sensorgateway.mib file and paste in the default location of the Solarwinds

For Windows Server 2008

C:\Program Files (x86)\SolarWinds\Orion

anize 🔻 Include in librar	v 🔻 Share with 💌 New folder			85
	Name	Date modified		
Favorites		4/20/2016 2:22 PM		ZIND
Desktop	ForwardSyslog.trap	4/29/2016 5:47 AM	TRAP File	3 KB
United Second Places	sensorgateway (1).mib	7/14/2016 3:43 PM	MIB File	49 KB
A Recent Haces	NetPerfMon.views	8/5/2004 3:43 PM	VIEWS File	3 KB
Libraries	Close.wav	4/29/2016 5:47 AM	WAV File	3 KB
Documents	Open.wav	4/29/2016 5:47 AM	WAV File	8 KB
J Music	📳 SolarWindsSnmpEnabler	3/21/2012 9:55 AM	Windows Installer P	2,543 KB
E Pictures	EverfMon-WebSite	6/9/2016 3:40 PM	WinRAR ZIP archive	74,086 KB
Videos	EverfMon-WebSite.precompiled	6/9/2016 3:40 PM	WinRAR ZIP archive	78,100 KB
	🕋 AlertingEngine	5/27/2016 8:05 PM	XML Document	1 KB
Local Disk (C:)	🖆 DllsList	6/15/2011 12:56 PM	XML Document	1 KB
Files and Backup (D:)	Full.Core.Services	9/4/2014 10:31 AM	XML Document	1 KB
🕫 Documents (H:)	InstallSettings	6/25/2016 2:59 AM	XML Document	1 KB
	LogConfigurations	11/25/2015 12:21 PM	XML Document	32 KB
Network	NPMChartsConversion	5/29/2016 6:52 PM	XML Document	28 KB
	OrionCoreChartsConversion	9/7/2012 10:42 AM	XML Document	14 KB
	OrionResourceConfig	10/15/2014 8:30 AM	XML Document	15 KB
	SolarWinds.DataGap.AnalysisTool.Data	4/20/2016 4:49 PM	XML Document	5 KB
	SolarWindsAdministrationLogConfigurations	4/28/2016 9:17 AM	XML Document	1 KB
	WebsitePermissions	10/30/2014 6:03 PM	XML Document	4 KB

Adding Nodes/OIDs for Monitoring

Example on how to get OID from iReasoning

1. Put the IP address and click Advanced. Then put in the SNMP credentials

Preserving Mill Browser		
ddress: 192,168.9.32 * Advanced OID: .1.3.6.1.4.1.1709	5.11.1.2.0	
UMP MEE	Result Table	
H MB: Tree	Name Name 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.35.0 1.3.6.1.4.1.17995.10.40.0 None 10.05.0 Homes Takene.0 None 10.05.0 Homes Takene.0 None 20.05.0 Homes Takene.0 None 20.05.0	- - - - - - - - - - - - - - - - - - -

1	• • •	Advanced Properties of SNMP Agent	
	Address	192.168.9.32	
Res	Port	161	
1.3.6.	Read Community	*****	
1.3.6.	Write Community	*****	
1.3.6.	SNMP Version	2	\$
3.6			
ensor		Ok Cancel	
ensor			
ensor2	Name.0		Humic

2. Select under Operations : Walk

	•	Operations:	Walk		÷ 6
				T	10.0
value				OctatString	102.168
				OctetString	192.100
				OctetString	192.100
				OctetString	192.100
				OctetString	192.168
				OctetString	192.168
				OctetString	192.168
				OctetString	192.168
				OctetString	192.168
				OctetString	192.168
				OctetString	192 168

This will scan the device for all SNMP OID's

3. In this example, we will be using the OID for the Internal Temp of the Gateway

Result Table	
Name/OID	Value
1.3.6.1.4.1.17095.10.34.0	
1.3.6.1.4.1.17095.10.35.0	÷
1.3.6.1.4.1.17095.10.36.0	
1.3.6.1.4,1.17095.10.37.0	÷
1.3.6.1.4.1.17095.10.38.0	
1.3.6.1.4.1.17095.10.39.0	
1.3.6.1.4.1.17095.10.40.0	
sensor1Name.0	Ext. Temp1
sensor 2 value .0	22.25
sensor1ErrState.0	The second
sensor llastfrrTime.0	
serisor HastErrMsg.0	The second se
sensor2Name.0	Humidity1
sensor2value.0	79.69
sensor2ErrState.0	DOWN
sensor2lastExyTime.0	14 July 2016,16:08:59
sensor2lastErrMsg.0	Humidity1,79.69,DOWN,14 July 2016,16:08:5
sensor3Name.0	Dew Point1
sensorTvalue 0	18.19

The SNMP OID .1.3.6.1.4.1.17095.11.1.2.0 is the value of the internal temperature reading of the Gateway.

To Monitor this Node on Solarwinds

1. Open Solarwinds Universal Device Poller



2. Select Sys Object ID as the group

🗘 New Universal Device Poller 🔍 Assign Pollers 👔	Transform Results
GROUP BY SysObjecti0 Contact USimage 13.61.41 Contact 13.61.41 USimage 13.61.41 USimage 13.61.41 USimage 13.61.41 Location 13.61.41 Status 13.61.41 <th>Details</th>	Details
LL DEFINED POLLEPS	
🖲 🖵 Example	List of assigned objects

3. Add the OID of the internal temp of the sensorgateway

Orion Universal Device Po	ller			_ 🗆 X
Define Your Create a poller usi	Universal Device Poller ng any MIB supported on your network.			
OID:	1.3.6.1.4.1.17095.11.1.2.0		Browse MIB Tree	
	Enter an OID or browse the MIB tree.	More about OIDs.		
Name:	sensor1Value		-	
Description:	Value of Sensor	×		
	+ Show Advanced Options			
Keep Historic Dat	al C Yes C No ac Keeping historical data will take up disk space, More about historical data.	but will allow you to graph data and dis	play gauges.	
Statu	a: C Enabled C Disabled Disabling your poller's status will end polling unit	il it is enabled again.		
Grou	p: Default Group			
	Organize your pollers into groups.			_

4. Click Next and Test the OID if it is supported and if it has a value

ROUP BY: Vendor		
Nodes	Test Results	
All Devices		
Chandwin	22 43	

5. Click Next and put a check mark for Node Details to show up on the NPM software and click finish.

Include the following on Orion views:			
Chart	Gauge	Table	Orion View Name
F	Г	Π	Network Summary Home
	E	V	Node Details
E	E	Π	Interface Details
E.	E	-	Current Top 10 Lists
1	E	E	Network Trends
П	Π	E	Problem Areas
d			
-		_	Þ

To add Alerts

- 1. Select Alerts & Activity Alerts and click Manage Alerts
- 2. Select the Node and customize the Alert depending on the condition you want.

	A1				
igger condition is simp	xe condition or set of multip	ale nested conditions which mus	it be mell before the alert is trigger	ed. «Learn more	
want to alert on: Node	v				
he scope of alert: ①)				
All objects in my env Only following set of	ronment (Show List) objects				
The actual trigger con	dition:				
Trigger alert when	All child conditions must b	be satisfied (AND)			
		and a second sec	👻 is equal to	- Down	~ X
	- II Node	· status			
	- 11 Node	✓ status			
	- 11 Node	 Status 			
Condition must exist f	for more than	Talls			

3. Add an action to the Alert

Add Action

select action you want to execute	Select	action	you	want	to	execute
-----------------------------------	--------	--------	-----	------	----	---------

	Action	Description
9. 9,	Change Custom Property	Changes a Custom Property of Network Object when the Alert is Triggered or Reset
0 8	Dial Paging or SMS Service	Send a Page, SMS or Beeping message via NotePage
0.00	Email a Web Page	Send an Email message that contains a Web Page
a .m	Execute an External Program	Execute a program when the Alert is Triggered or Reset
0 14	Execute an External V8 Script	Execute a VB Script file when the Alert is Triggered or Reset
5 B	Log the Alert to a File	Logs the Alert to a text file
8 6	Log the Alert to the NetPerfMon Event Log	Log the Alert in the Network Performance Monitor Event Log
0.0	Play a Sound	Play a Sound when an Alert is Triggered or Reset
	Send Net Message	Send a Windows Net Message
9 17	Send SNMP Trap	Send SNMP Trap when the Alert is Triggered or Reset
0 6	Send a GET or POST Request to a Web Server	Interface with other applications via HTTP GET or POST
0 5	Send a Syslog Message	Send a Syslog Message when Alert is Triggered or Reset.
. 6	Send an Email/Page	Send an E-Mail message via an SMTP Server
) q	Set Custom Statuk	Set a Custom Status for a Node Object (advanced)
0 P.	Text to Speech Output	Speak a phrase using Text-to-Speech when an Alert is Triggered or Reset
0 5	Windows Event Log	Log an entry in the Windows Event log

CONFIGURE ACTION CANCEL