EM01b SNMP Proxy Installation for Windows Vista, 7, Server 2003, Server 2008, Server 2008 R2

Extract the contents of the compressed archive (ZIP) to a root directory (i.e. c:\esensors)
Edit *C:\esensors\snmpd.conf* on line 73, rename all occurrence of "192.168.254.102" to the Websensor's actual IP address. (Assuming the zip file is extracted to C:\) Example:

```
exec em01_temperature /esensors/check_em01 192.168.254.102 T
exec em01_humidity /esensors/check_em01 192.168.254.102 H
exec em01_illumination /esensors/check_em01 192.168.254.102 I
```

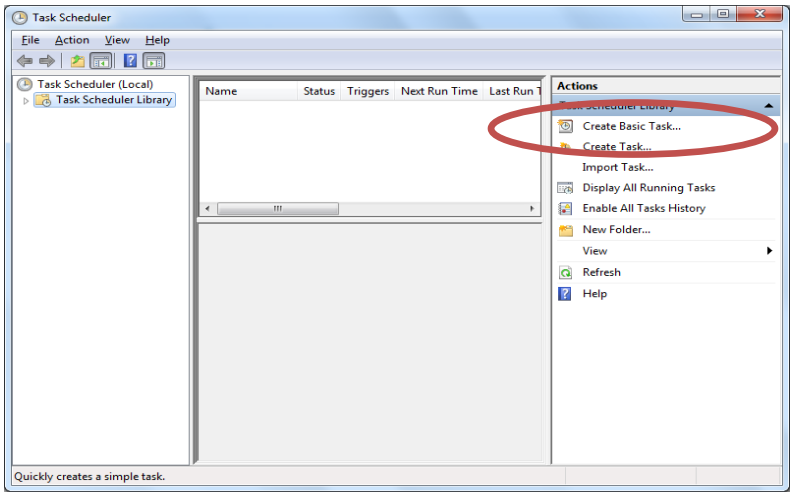
a. If you would like to detect Contact Closure, uncomment line 77.
b. If you would like to detect Thermistor Interface or RTD, uncomment line 79.
c. If you would like to detect Voltage, uncomment line 81.

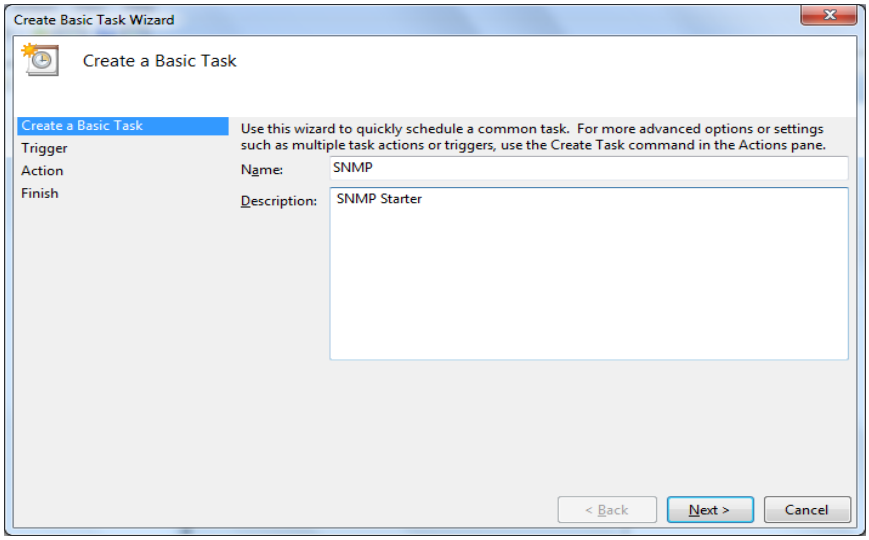
Activate the agent by executing the file *run_agent.bat*

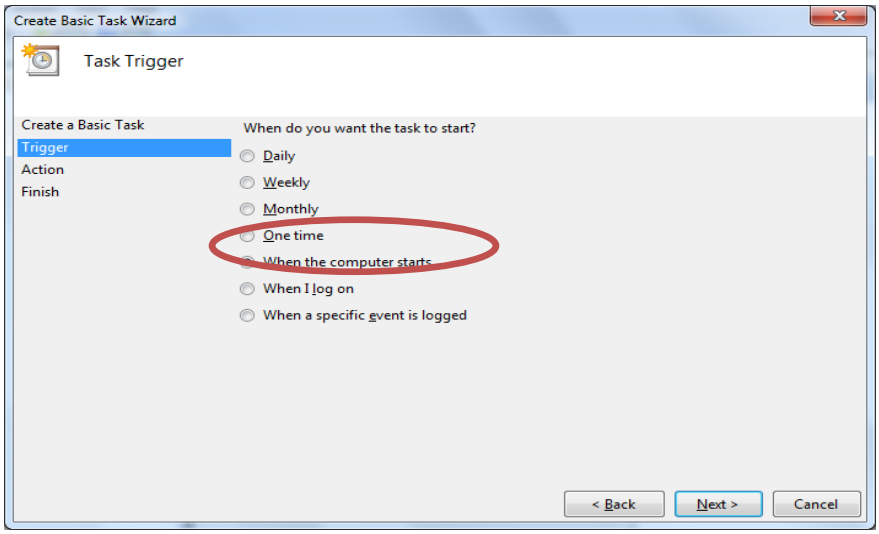
If you would like to install this program as a NT service so that it starts up automatically. Place a shortcut of the start.bat in your windows start up folder. The first time you restart you will be prompted for Security action. Uncheck the Always ask before opening this file and proceed. The NET –SNMP will automatically run in background after you login.

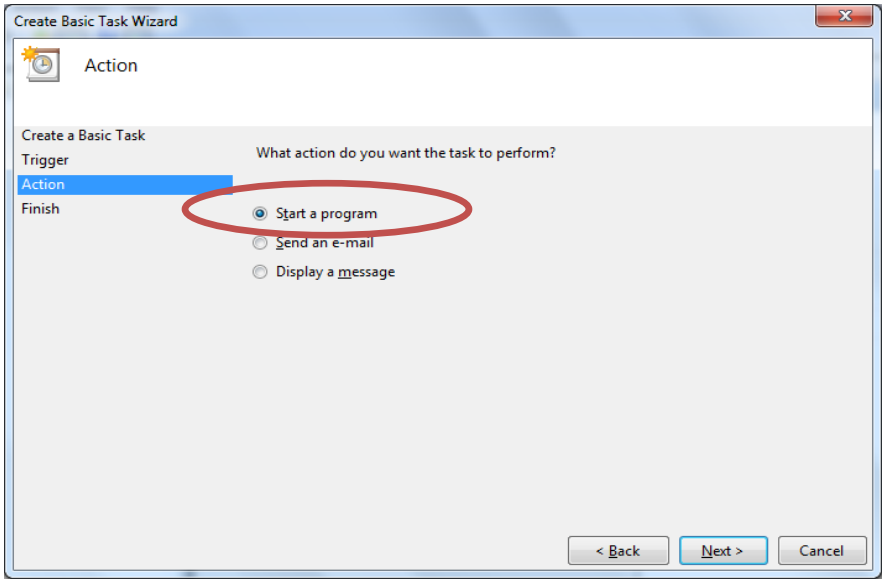
However if you want the service to **run before you log in**, the following Instructions enable you to run the SNMP proxy like a server on newer operating systems

Download the SNMP Proxy from website, **Make sure your firewall is disabled**
Launch Task Scheduler *Start*=> *Run*=> *taskschd.msc*
Create Basic task




Create Basic Task Wizard
Create a Basic Task
Create a Basic Task
Trigger
Action
Finish
Use this wizard to quickly schedule a common task. For more advanced options or settings such as multiple task actions or triggers, use the Create Task command in the Actions pane.
Name: SNMP
Description: SNMP Starter
< Back
Next >
Cancel

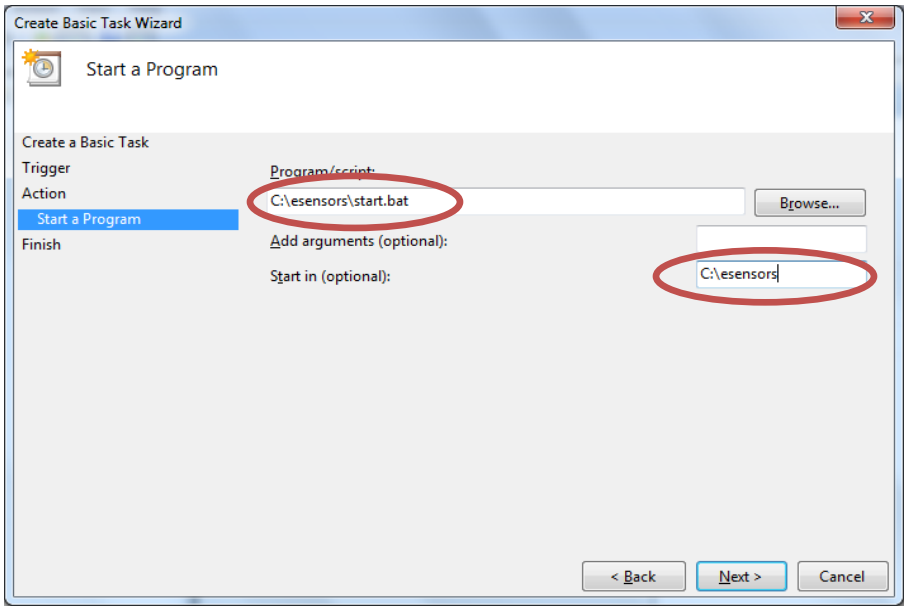

Create Basic Task Wizard
Task Trigger
Create a Basic Task
Trigger
Action
Finish
When do you want the task to start?
Daily
Weekly
Monthly
One time
When the computer starts
When I log on
When a specific event is logged
< Back
Next >
Cancel


Create Basic Task Wizard
Action
Create a Basic Task
Trigger
Action
Finish
What action do you want the task to perform?
Start a program
Send an e-mail
Display a message
< Back
Next >
Cancel

If all the files of the SNMP proxy are located in the folder C:\esensors

Follow the configuration as show below.

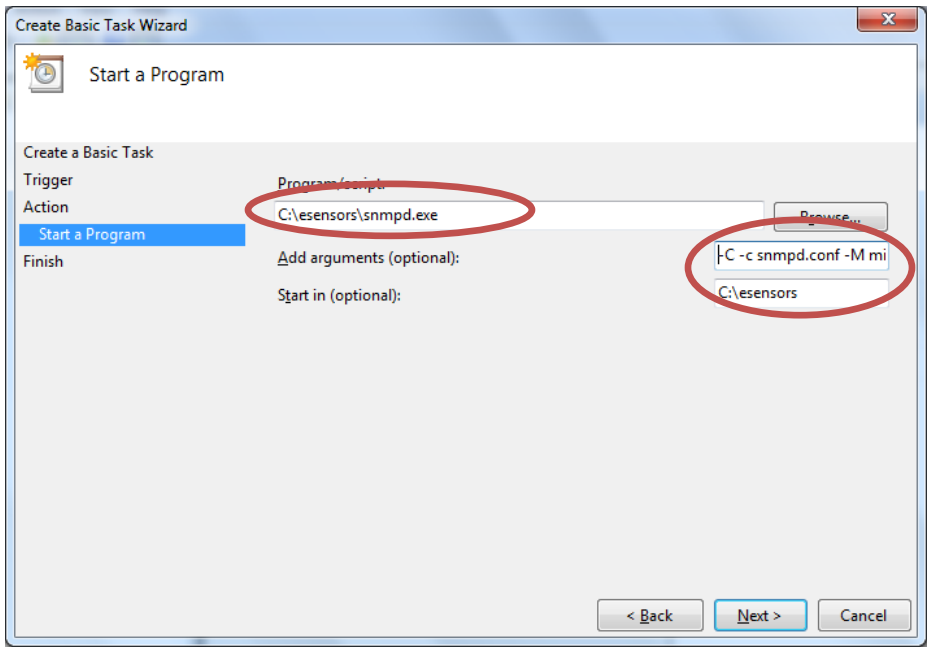
Specify Start in the folder were all files are present ***C:\Esensors***

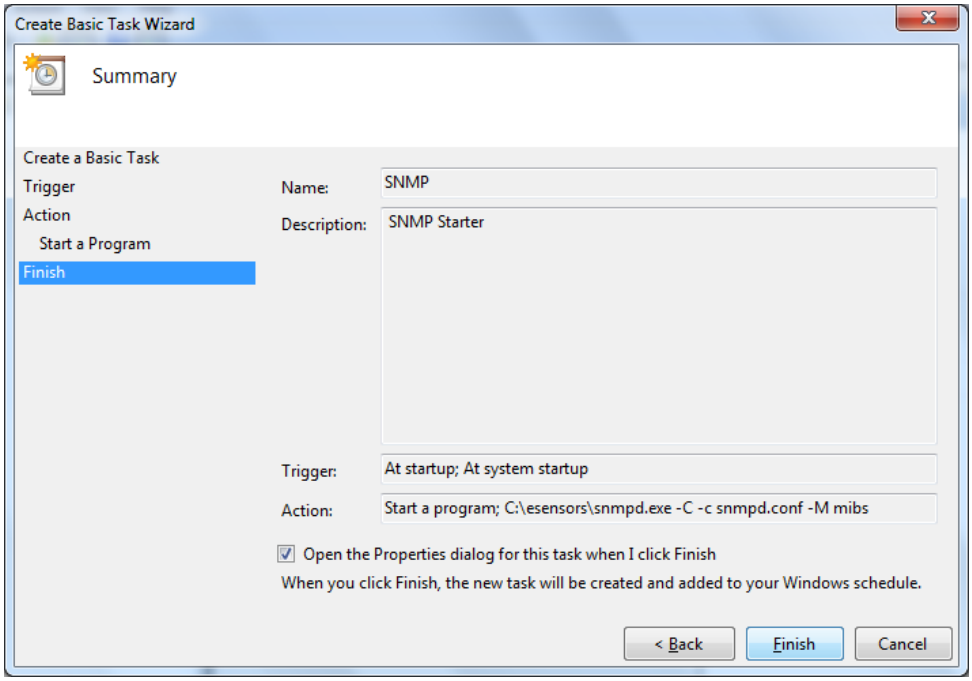


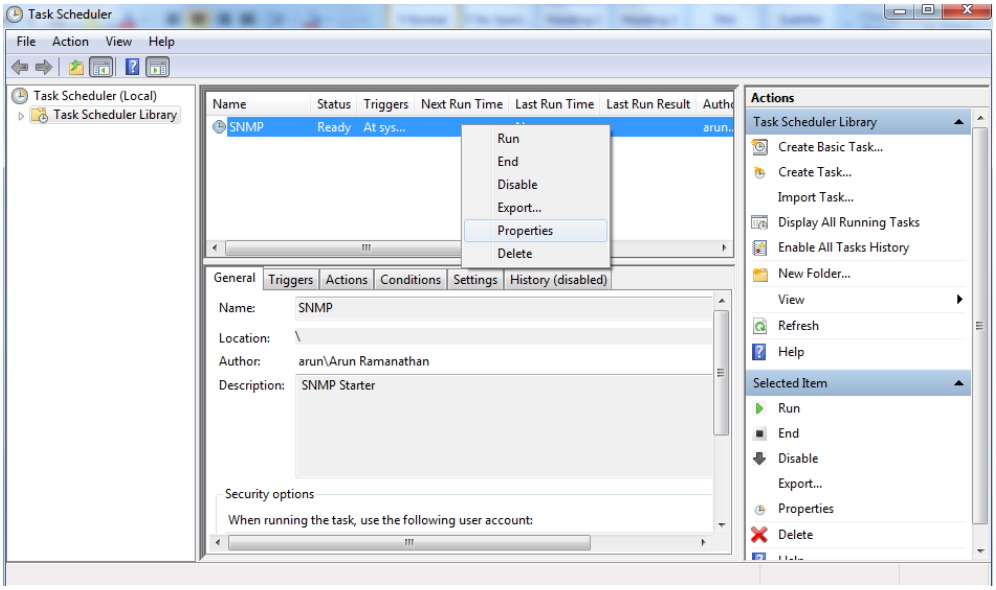
You can alternately use the following configurations to directly invoke the snmpd.exe

Make sure you Add Arguments ***-C -c snmpd.conf -M mibs***

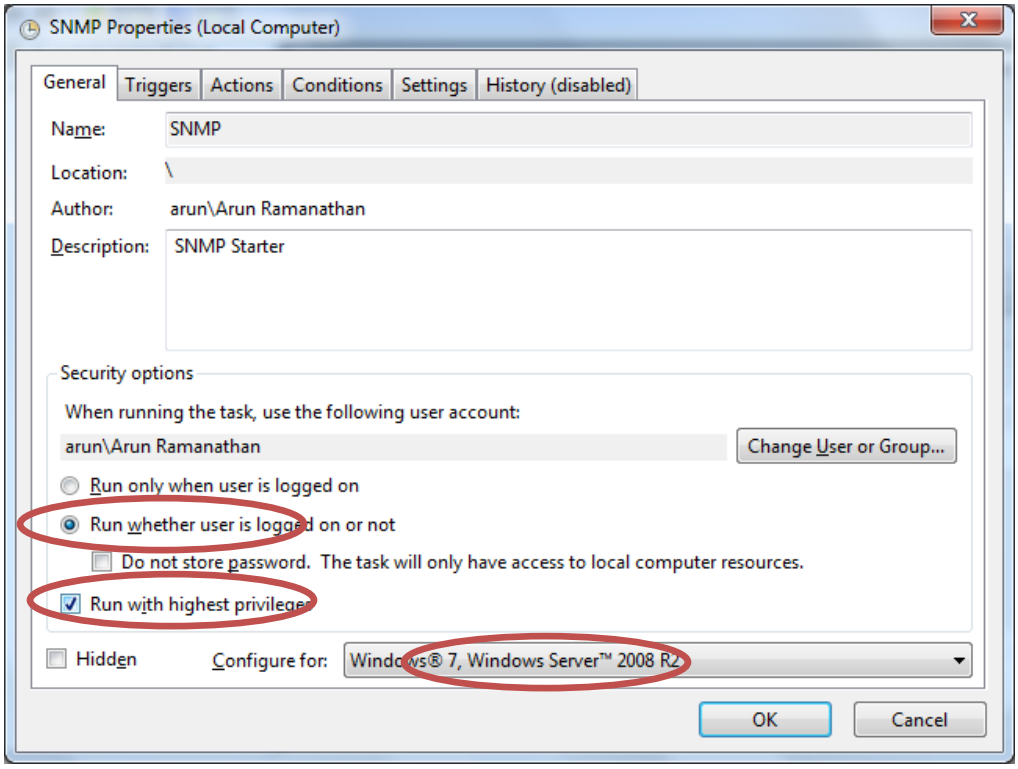
Specify Start in the folder were all files are present ***C:\Esensors***

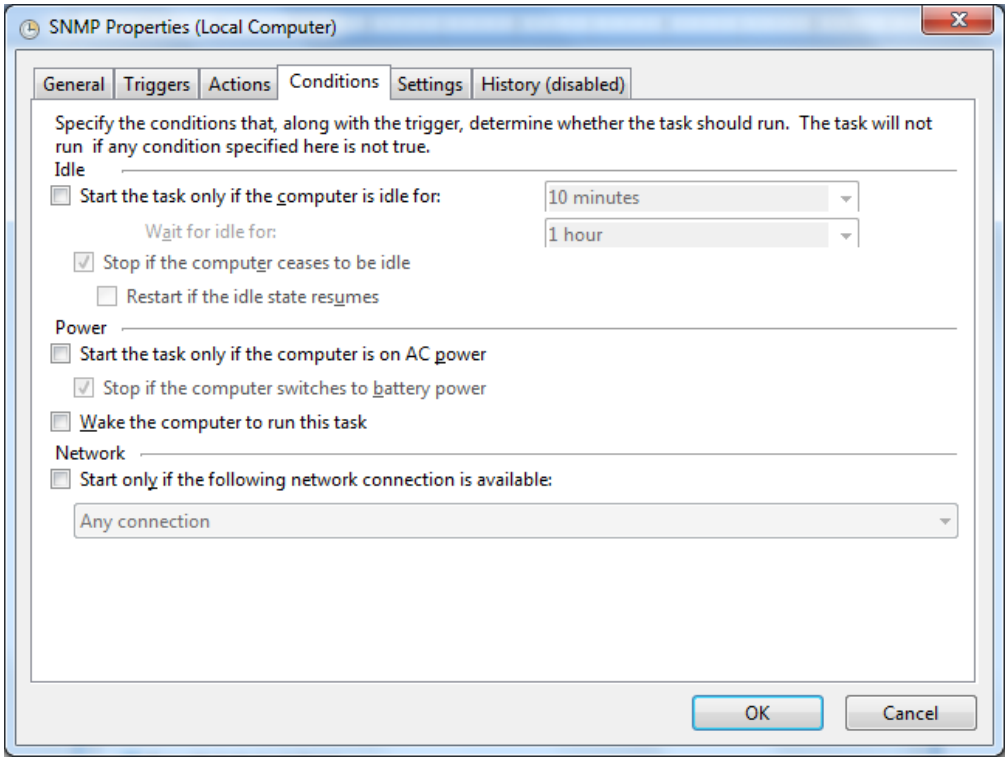


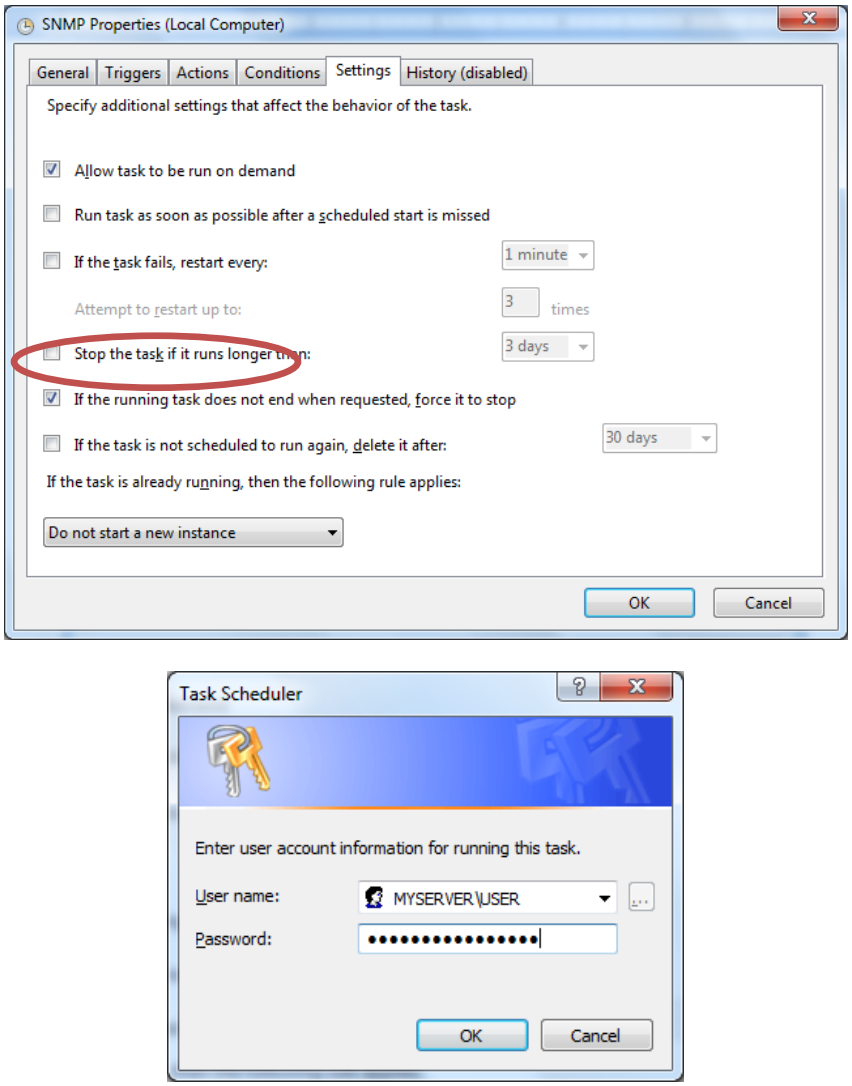

Create Basic Task Wizard
Summary
Create a Basic Task
Trigger
Action
Start a Program
Finish
Name:
SNMP
Description:
SNMP Starter
Trigger:
At startup; At system startup
Action:
Start a program; C:\esensors\snmpd.exe -C -c snmpd.conf -M mibs
Open the Properties dialog for this task when I click Finish
When you click Finish, the new task will be created and added to your Windows schedule.
< Back
Finish
Cancel


Task Scheduler
File Action View Help
Task Scheduler (Local)
Task Scheduler Library
Name Status Triggers Next Run Time Last Run Time Last Run Result
SNMP Ready At sys...
Run
End
Disable
Export...
Properties
Delete
General Triggers Actions Conditions Settings History (disabled)
Name: SNMP
Location: \
Author: arun\Arun Ramanathan
Description: SNMP Starter
Security options
When running the task, use the following user account:
Actions
Task Scheduler Library
Create Basic Task...
Create Task...
Import Task...
Display All Running Tasks
Enable All Tasks History
New Folder...
View
Refresh
Help
Selected Item
Run
End
Disable
Export...
Properties
Delete

Edit the Properties







The SNMP Proxy will run before you Logon

Testing the SNMP Agent

1. Ensure that you have disabled all firewalls and other SNMP agents that might be running on the localhost.

2. Run the file *selft_test.bat* to see a listing of the data table. Here, you can obtain useful information like the SNMP OID for the sensor data (temperature, humidity, illumination) and the corresponding check command issued to it.
exec em01_temperature /esensors/check_em01 192.168.254.102 T
exec em01_humidity /esensors/check_em01 192.168.254.102 H
exec em01_illumination /esensors/check_em01 192.168.254.102 I

You can test it from a remote system on the same network. Inorder to do so you need to have the **esensors** folder containing the snmpd.exe on the remote system also.
Go to Command prompt
If the sensors folder in on C:\esensors
Go to that directory by typing **cd c:\esensors**

Type the command **snmpwalk -v 2c -c websensors -M mibs 192.168.254.1:160 .extTable**

Here **192.168.254.1** is the IP address of the server machine.

Alternately you can edit the server_test .bat on the remote testing system to reflect the IP of the server on which the snmp proxy is running. Then run the file.

Useful Information:

- The default SNMP community is **websensors**
- The SNMP OID for this agent is **1.3.6.1.4.1.23718**
- For the data table, it is **1.3.6.1.4.1.23718.8.1.101**
- The MIB files are located in the directory *mibs*.
- To obtain sensor reading by SNMP, query the machine that this agent is running on; **NOT** the IP address of the Websensor.