



# SNMP – Setting up Windows to Support SNMP Connectivity



APPLICATION NOTE

September 2013

**Description:** Guide to installing and configuring the Microsoft Windows SNMP Agent.

**OS Requirements:** Vista x64/ Windows 7 x64/ Windows 8 x64/ Windows Server 2008 x64/ Windows Server 2008 R2 x64/ Windows Server 2012.

**General Requirements:** installation of GENESIS64.

## Introduction:

Simple Network Management Protocol (SNMP) is a communication standard that facilitates the exchange of network information between SNMP enabled devices. An SNMP network consists of a Network Management System (NMS), Managed Devices, and Agents. An NMS would monitor or control managed devices that provide SNMP information through the agents.

Here is how SNMP works with GENESIS64. You can consider ICONICS GENESIS64 as an NMS. The Managed Devices are your routers, printers, servers, etc. The Agents are software on the managed devices that provide management information.

This document will walk you through the steps of installing and setting up your SNMP services from windows.

## Installing the MS Windows SNMP Agent

1. Open "Program and Features" from the Control Panel.

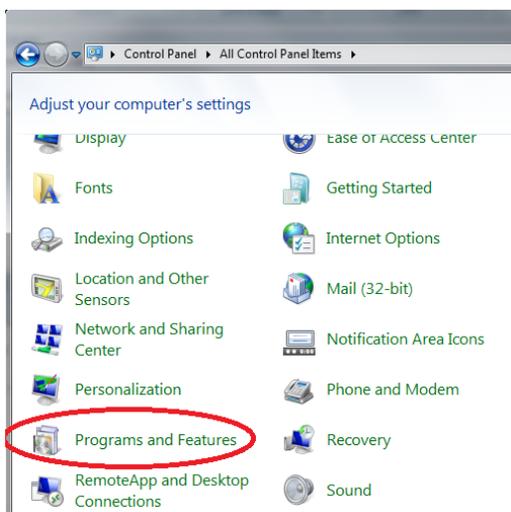


Figure 1 – Program and Features Icon

2. Click on "Turn Windows features on or off" button on the left-hand panel.

3. In **Windows Vista, Windows 7, or Windows 8**, check the box for "Simple Network Management Protocol (SNMP)", then click OK.

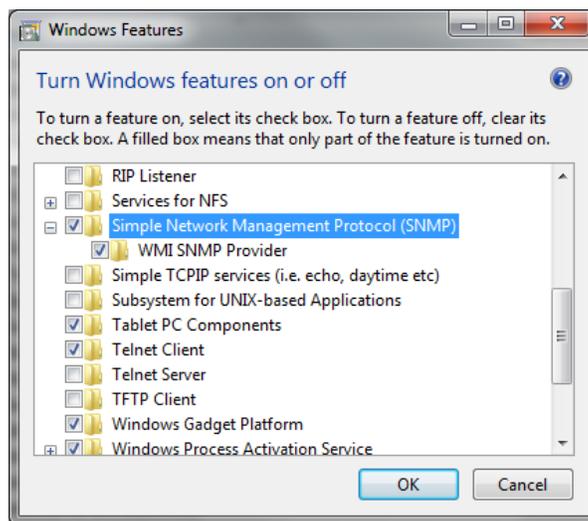


Figure 2 - Turn Windows Features on or off (Windows 7)

4. In **Windows Server 2008, Windows Server 2008 R2, or Windows Server 2012**, right-click on Features in the tree and select Add Feature. Check the box for "SNMP Services", then click Install.

## Configuring the MS Windows SNMP Agent Service - SNMP Data

1. Go to Start → Control Panel → Administrative Tools → Services.
2. Double-click the SNMP Service to open the properties page.
3. Select the Security Tab.
4. Add the community names for the devices from which you would like to receive SNMP packets. Specify Community rights as well.

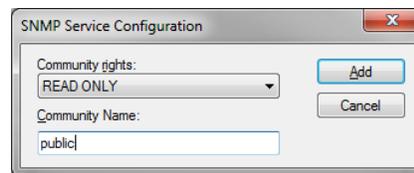


Figure 5 - Set "public" as the Read Community

**NOTE:** The default read only community for most devices is "public". The ICONICS SNMP Simulator publishes in this community. The default read/write community for most devices is "private".



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5. Add the Host Name or IP addresses of devices you wish to receive SNMP packets from by using the "Add..." button in the lower section. You can also choose to accept SNMP packets from any host.

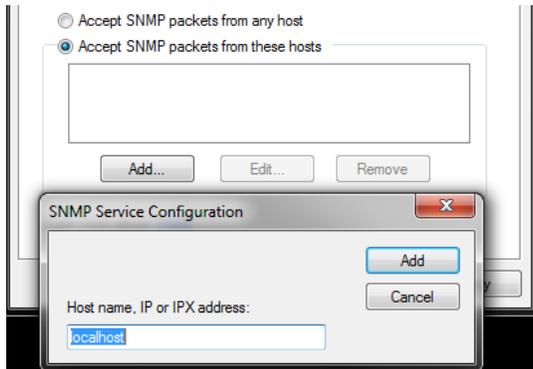


Figure 6 - Add the Host Name or IP Address of SNMP Enabled Devices

6. Click on "OK" to close the properties window.
7. Restart the SNMP service by selecting it and clicking the restart service button  on the top toolbar.
8. There is also a SNMP Trap Service in the Services manager. **You will need to disable this service.**
9. Close the services browser.

## Configuring the MS Windows SNMP Agent Service - SNMP Simulator Traps

1. Open Services again from the Control Panel.
2. Select SNMP Service and open its properties page by right clicking (**Error! Reference source not found.**) on it and selecting Properties.
3. Click on the Traps Tab.

4. Type "public" under community name and click Add to list.
5. Click on "Add..." at the bottom of the window and add "localhost" and the DNS name of your PC.

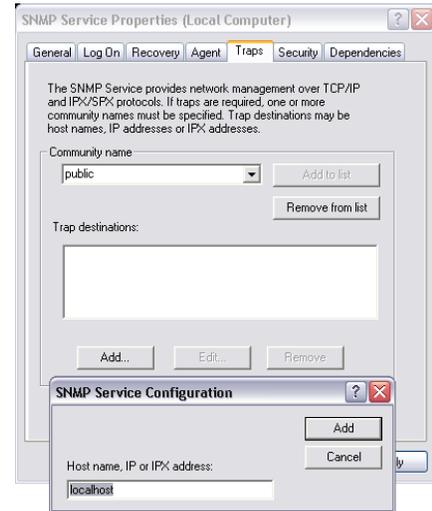


Figure 7 - add "localhost" and the PC's DNS Name

6. Click on "OK" to close the properties window.
7. Restart the SNMP service by selecting it and clicking the restart service button  on the top toolbar.
8. Close the Services browser.
9. Now you should be able to configure SNMP Traps in ICONICS SNMP Configurator.

**NOTE:** See the Application Note entitled *SNMP – Using SNMP Traps with GENESIS64* for more information on how to configure traps.