SNMP Connector – Connecting to GENESIS32 from Third Party Clients

APPLICATIONS NOTE

April 2010

Description: Guide to using SNMP with GENESIS32
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: GENESIS32 V9 installed, Windows setup to support SNMP Service

Introduction

SNMP stands for Simple Network Management Protocol and is a simple protocol that allows devices to expose useful information to other devices. The ICONICS SNMP connector functions as a manager in an SNMP scenario.

Creating a new SNMP Configuration

1. Start the ICONICS SNMP Connection Configurator by going to Start → Programs → ICONICS Tools → SNMP Configurator
2. Click on 🗋 to create a new SNMP configuration.
3. Specify the filename and location to save the configuration
4. MIBs have to be parsed to make SNMP data comprehensible. Click on **MIB Items** in the left window pane.

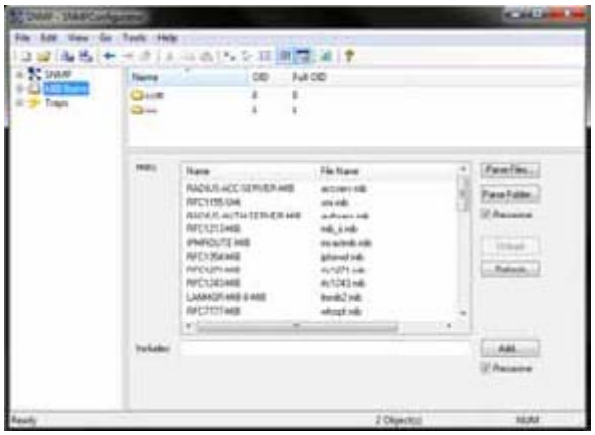

Figure 1 - MIB Items

NOTE: Press F11 if you don't see the dialog on the right pane.

5. Click on **Parse Folder** to parse a whole folder or **Parse Files** to parse specific files.

   NOTE: There are some MIB files available in the C:\Windows\System32 folder

6. Click on **SNMP** and browse for **Default Network** to start adding devices to the configuration

Figure 2 - SNMP

7. Depending on your network infrastructure, you can explore the network for SNMP devices by entering a **Single IP**, a **Subnet,** an **IP Range** or a **Broadcast**. Select the appropriate Discovery Type
8. Click on **Explore…** to start exploring your network for SNMP enabled devices. The ICONICS Unified Data Browser will browse the network for SNMP enabled devices and display them.
9. Once its done exploring, select the device that you want to receive SNMP information from
10. Browse the device until you see the tag that contains the information you want.(e.g: the system description is stored in "iso.org.dod.internet.mgmt.mib-2.system.sysDescr")

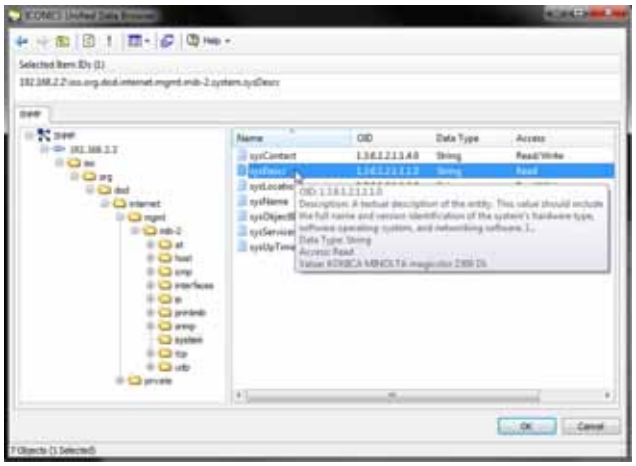

Figure 3 - Browse for SNMP Tags

11. Double click on it to add it to the configuration
12. The selected tag is now added to the configuration
13. Repeat the above steps to add more tags

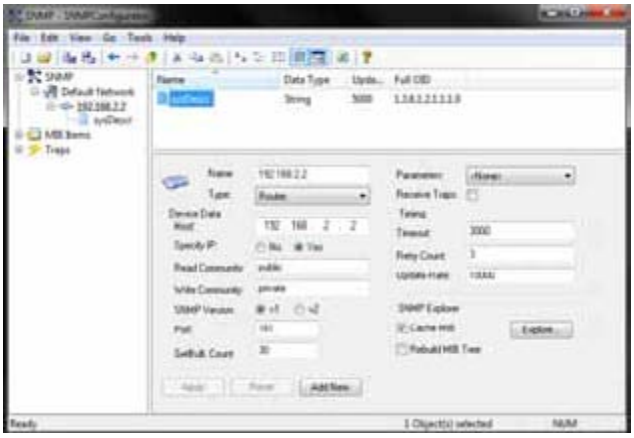

Figure 4 - SNMP Tag Added to the Configuration

14. Edit properties like Name and Device Type to what you desire to see when browsing for these tags.
15. Make this configuration active once you are done adding the tags by going to **File → Make Active**
16. Now you can browse for SNMP tags from any ICONICS product through the Unified Data Browser under the SNMP tab

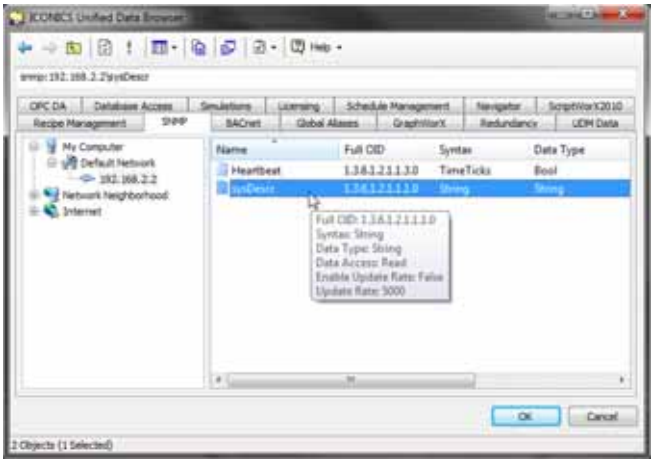

Figure 5 - Browsing for SNMP Tags from Unified Data Browser