Chapter 8

Connecting To Simplicity Controls Over The Internet

A remote Internet connection to a network of Simplicity control(s) allows you, the contractor, to view, operate, control, troubleshoot and make changes to systems using Simplicity controllers. This is accomplished through the Simplicity PC software.

Establishing an Internet connection to a remote network of Simplicity controls requires the use of a Transporter adaptor and some initial setup through Simplicity PC software. The following instructions take you step-by-step through the process. This process only needs to be done once when initially establishing the Internet connection. Once the Internet connection is setup, remote monitoring and control of the Simplicity network as well as reception of alarms is simple.

Additional new networks are added to an existing Internet connected PC in the same manner however; each individual network needs its own Transporter and SNID.

Read all these instructions before doing anything!

Items Needed

1. A PC running “Simplicity PC”.
2. A Simplicity Transporter.
3. A Simplicity Network ID (SNID) A SNID is generated through the software and consists of a word of your choice consisting of 3 to 14 characters.
4. A password of your choice.
5. An Internet connection at both the job site and local office. The local office is wherever the remote Internet connected PC is located.

• What You Need To Do At The Remote PC

Before going to the jobsite where the Simplicity network is physically located there are a few setup items that need to be accomplished at the remote PC.

1. Launch the Simplicity PC software from the computer attached to the Internet.

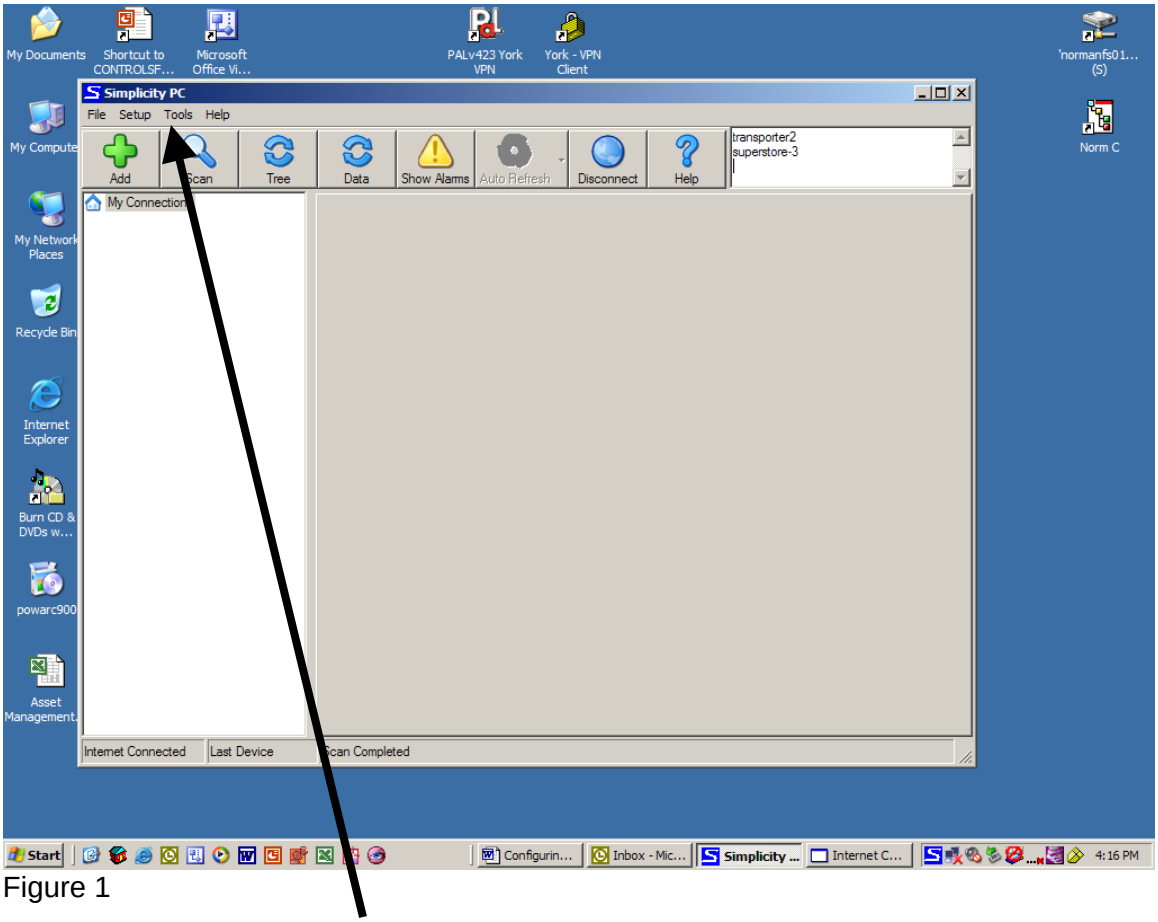

Figure 1

2. Locate and pull down the “Tools” menu in the upper left-hand of the Simplicity PC window. See figure 1.

3. From the “Tool” pull down list, select “Create SNID”

4. This displays a dialog box where you can enter a SNID and password. (Figure 2) You are required to enter the password twice to verify it was entered correctly. A SNID (Simplicity Network ID) is a network identifier that you make up and is used to identify any connection to a Simplicity network. Remember both your SNID and Password. The password is case sensitive.

ABOUT SNIDs

Any connection to the Simplicity network requires a SNID. Each person accessing the network is considered a connection therefore, every individual needs their own SNID and password.

In addition, a Transporter is a connection and it too needs a SNID. Creating a SNID for the transporter is covered later in this document.

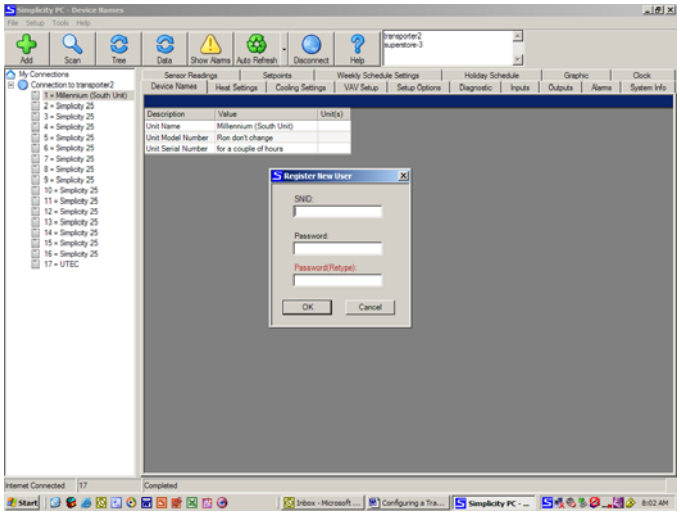

Figure 2 SNID dialog box

It is possible to get a “SNID Not Available” error message if the SNID you requested is already in use. Choose another SNID and try again. (Remember both your SNID & Password)

A SNID needs to be created for each user who will be accessing the network. When this has been accomplished you are ready to go to the jobsite where the Simplicity network is physically located. The next step is to setup the Transporter at the jobsite.

- **Configuring The Transporter**

At the jobsite, consult the IT professional in charge of you’re the customer’s Internet system. Ask the following;

1. Does the local network support DHCP? If the answer is “Yes”, you do not need any more information. If the answer is “No”, obtain the following additional information.
2. IP address _____
3. Subnet mask _____
4. Default gateway _____
5. DNS1 _____
6. DNS2 _____

Do not be concerned with what these items are. You will simply be copying them to a screen later in these instructions. They are needed to create the SNID for the Transporter.

- Locating and physically connecting the Transporter

Choose a location to physically install the Transporter. The following list provides location and installation guidelines.

1. Install the Transporter indoors in a secure and dry location. The Transporter will accept DIN rail mounting.

2. Where it can be connected to the local Internet cable. It must be within 300 feet of a network connection.
3. Where it can be connected to the Simplicity
4. The Transporter must be less than 1000 feet from the last Simplicity board
5. Near a source of 120 VAC power

The Transporter will operate on AC or DC power from 8 to 24 volts. A 40 VA 120 to 24 Volt class 2 transformer is ideal. Connect power to the Transporter at terminals Vin+ & Vin- as pictured in figure 3. If a DC power source is used, it is important to observe the polarity of the terminal connections.

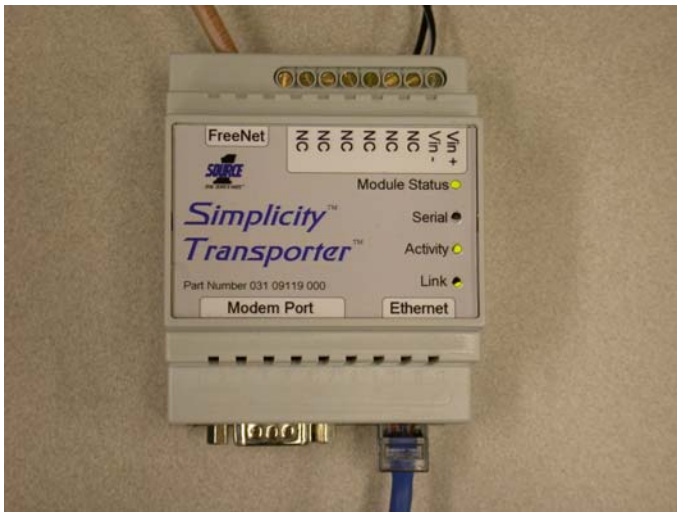

Figure 3 Simplicity Transporter

Connect the Internet cable to the “Ethernet” jack on the Transporter. This cable should be a standard CAT5 cable. This cable should not exceed 300 feet in length. If this cable must run through an area where a high degree of electrical noise exists a CAT5E cable may be necessary.

Connect the Simplicity bus to the upper left-hand RJ-11 jack labeled “FreeNet”. FreeNet is York’s trade name for our network bus. The jack looks like a standard telephone jack with 6-wires. We will only be using the black and white wires. Be sure to maintain the polarity and colors at the Simplicity board where the FreeNet bus attaches to the last Simplicity board on the network. The “Black” wire connects to the “A” terminal and the “White” wire connects to the “B” terminal at the Simplicity board.

Once installed, apply power to the Transporter and view the “Link” and “Module Status” lights on the Transporter. These two lights will turn green after approximately one-minute.

Write down the MAC address of the Transporter. This number is on the label on the side of the Transporter. You will need this number later to verify that the computer has found and connected to this particular Transporter. The MAC address is a 12-digit number separated by dashes or colons.

- **Configuring The Transporter**

From a PC connected to the same network, start the Simplicity PC software.

1. Starting at the main Simplicity PC screen, select “Tools”>”Find Transporters”. This will bring up the “Transporter Locator” dialog box as shown in figure 4.

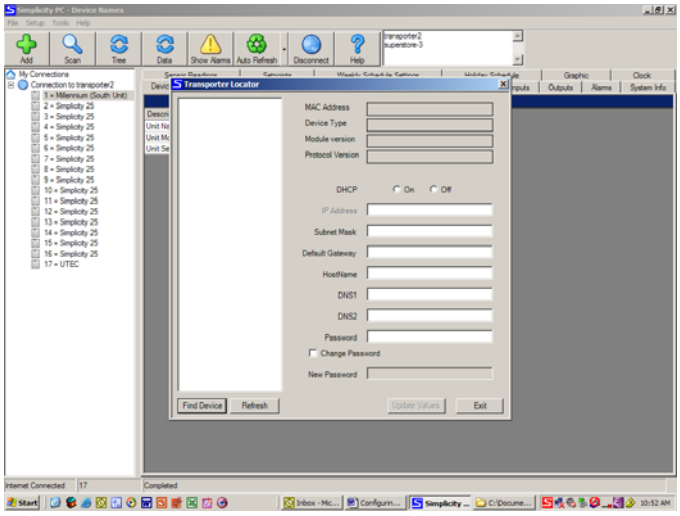

Figure 4 Transporter Locator Dialog Box

2. In the lower left-hand corner of the “Transporter Locator” dialog box select “Find Devices”. This will scan the network looking for any Transporters you have installed. When a device is found its MAC address appears in the list on the left-hand side of this dialog box.

3. Select the MAC address from the list, the data on the right half of the screen should update.

4. If you are using DHCP, select the “ON” radio button, enter your password, and click on “Update Values”. The default password on all Transporters is “admin”. This password can be changed later for greater security.

5. If you are not using DHCP, select the “OFF” radio button and fill out the information you got earlier from the network IT professional. The Host Name is optional but you may wish to use this name to identify the Transporter. If you choose to create a Host Name use a name that best identifies the customer such as “Superstore Grocery” or whatever the customer’s business name may be.

6. Once all the information is entered, enter the default password (admin) and press “Update values”.

7. With either option, it will take 1 to 2 minutes for the device to restart. After 2-minutes, press the “Refresh” button located on the lower left-side of the

"Transporter Locator" dialog box. The list should clear and the MAC address for the newly installed Transporter should reappear on the list.

8. Select the MAC address from the list by highlighting it and then click on the blue "IP Address" text in the middle of the screen. This will take you to the web interface to finish configuring the Transporter.

9. The dialog box shown in figure 5 will appear. Insert the default username and password and click "OK". Both the username & password are "admin" by default and may be changed later.

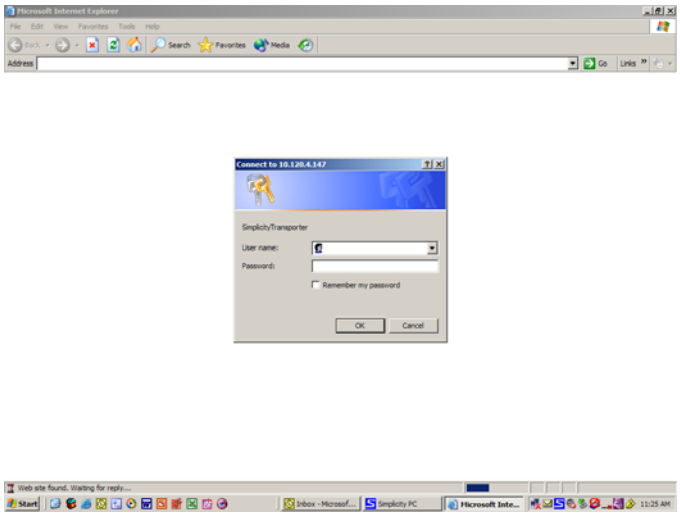

Figure 5

The screen in figure 6 will appear. Notice that the screen will read "Authorization Failed" This is normal and will change after the Transporter configuration is complete.

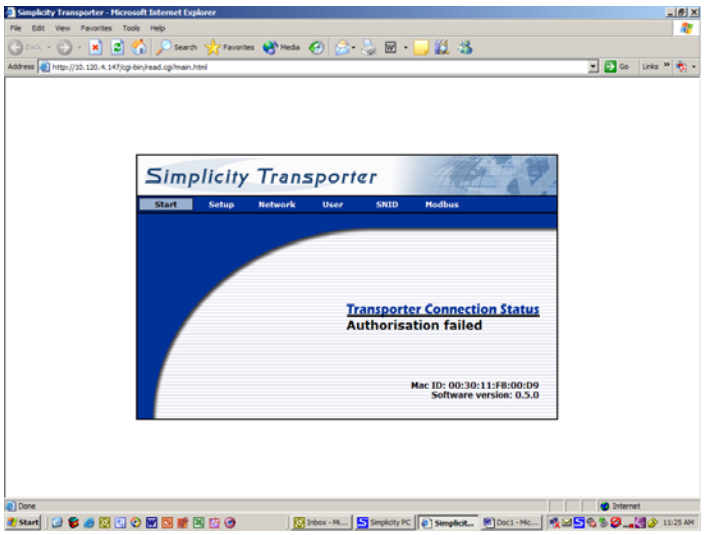

Figure 6

10. From the screen in figure 6, select the “User Tab”. You will then be taken to the screen shown in figure 7.

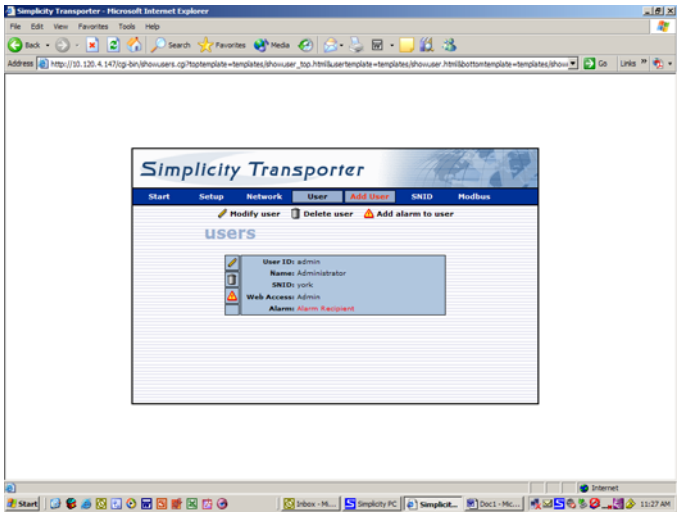

Figure 7

11. From this screen select the “Pencil/Modify user” icon. This will take you to the “Modify User” screen illustrated in figure 8. This is where you will change the password to your own. The password is case sensitive. Remember the password you select, the next time you log on use “Admin” as your user name and your new password. Select the “Save User” button.

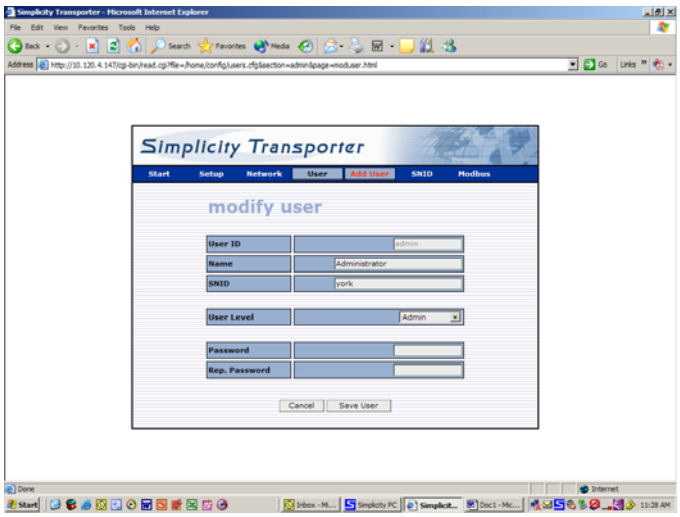

Figure 8

12. You are now taken to the “Register SNID” screen as shown in figure 9. Now give the “Transporter” a SNID of your own choosing. This is not “your SNID” that you selected previously. Select a new SNID for the “Transporter”. Remember every connection has a SNID of its own. Your have your personal SNID and now the “Transporter” will need one of its own. Select the “Save” button and you will be taken to the “Active SNID” screen in figure 10.

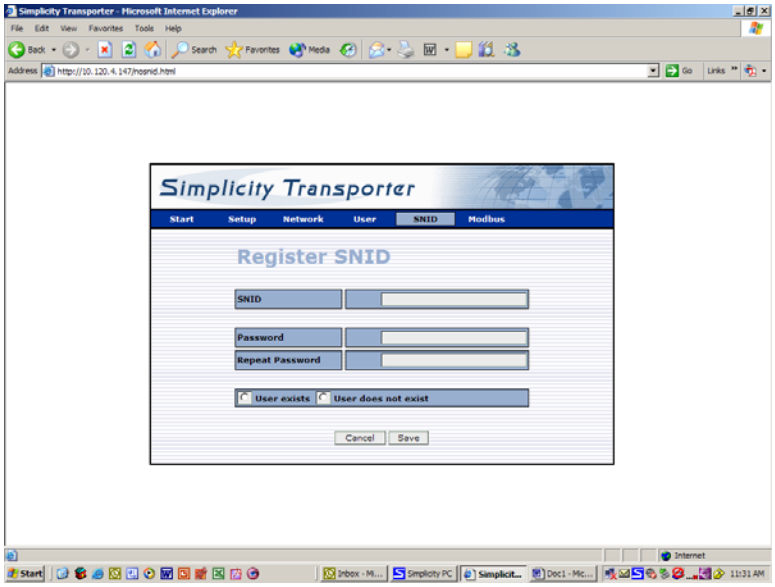

Figure 9 “Register SNID” screen

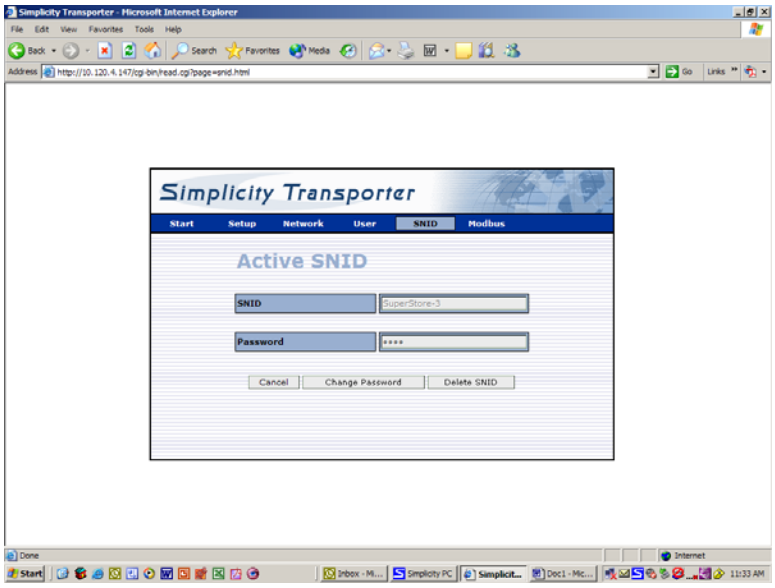

Figure 10

The “Active SNID’ screen shows the new SNID as it was registered. From this screen select the “Start” tab at the top left of the screen. The screen in figure 11 appears and shows that the Transporter” is now connected to the server.

Figure 11 “Transporter Connected To Server”

13. Now add your SNID to the device so you can access it over the Internet. Select the “User” screen and click on the red “Add User” button. The “Add User” screen appears as illustrated in figure 13.

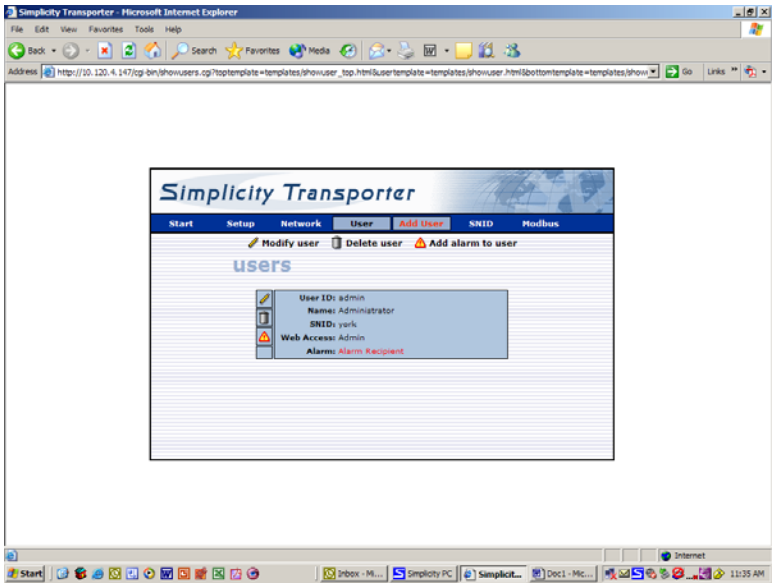

Figure 12

14. In the “Add User” screen, add your user ID & personal SNID. Your ID & SNID are both the same. The name should be your company name. Choose the “Save Settings” button.

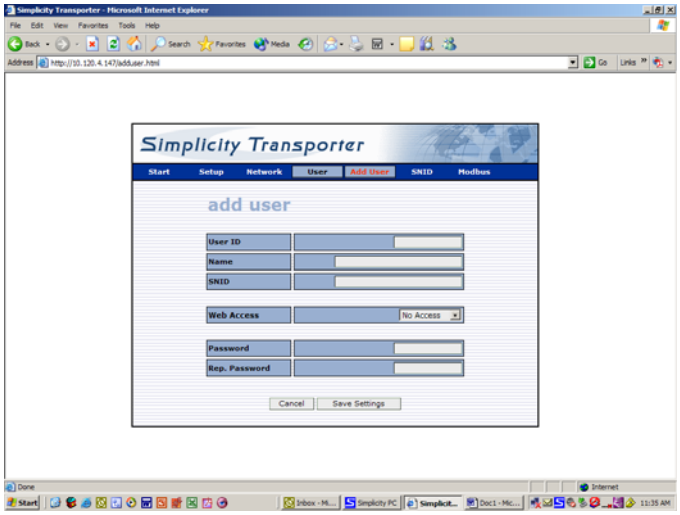

Figure 13 Add user screen

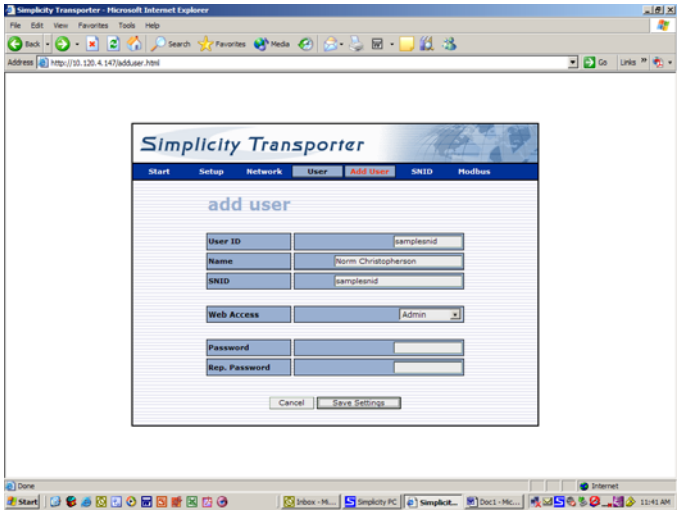

Figure 14 Example of a completed “Add User” screen

14. You have now completed setting up the “Transporter”. The screen in figure 15 shows two users. You may now go back and add additional users as desired.

15. With the “Transporter” configured for use you must reboot the transporter by cycling the power to the “Transporter”.

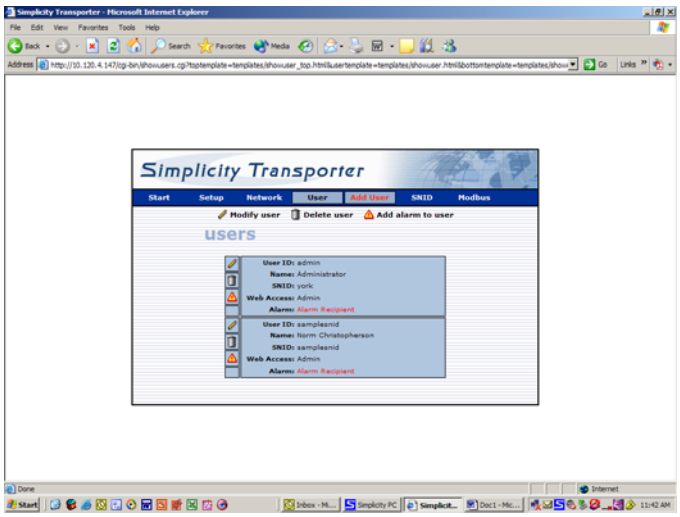

Figure 15

NOTE

It is only necessary to follow this procedure once when setting up a “Transporter” Internet connection.

You must repeat this procedure for each “Transporter” you connect to the Internet. Normally a single “Transporter” is all that is necessary for a building.