Configuring the Lantronix UDS-10

Purpose

The purpose of this application note is to configure a Lantronix UDS-10 device to work in TCP/IP environment with EntraPass Special, Corporate or Global Edition Version 3 (and higher) with a Windows Global Gateway, a Corporate Gateway and/or a KT-NCC.

Requirements

- Computer with EntraPass application already installed.
- Lantronix UDS-10 (Kantech part number LA-UDS-10), includes DB25 adaptor #740-1033 (VC-485), adaptor #740-1035 (Direct to KT) and flat gray cable.
- Device Installer 3.6 software that comes on a cd in the box with the Lantronix UDS-10.
- Microsoft .NET Framework v1.1. already installed (available at www.windowsupdate.com).
- Static IP address, Subnet mask and default gateway for the UDS-10 (provided by the IT department or System Administrator).
- Microsoft Internet Explorer 5.1, or later (JAVA enabled) for Web configuration.

Firewall must be disabled. UDP port 30718, TCP port 9999 (both for configuration) and TCP port 10001 (for normal usage) must be available.

Steps for setting up the Lantronix UDS-10

The Lantronix UDS-10 configuration will be done in 5 easy steps. Make sure that you follow **all the steps in the proper order**.

1. Before You Start the Configuration

1. Install the Lantronix UDS-10 according to the instructions in the installation manual of the unit.
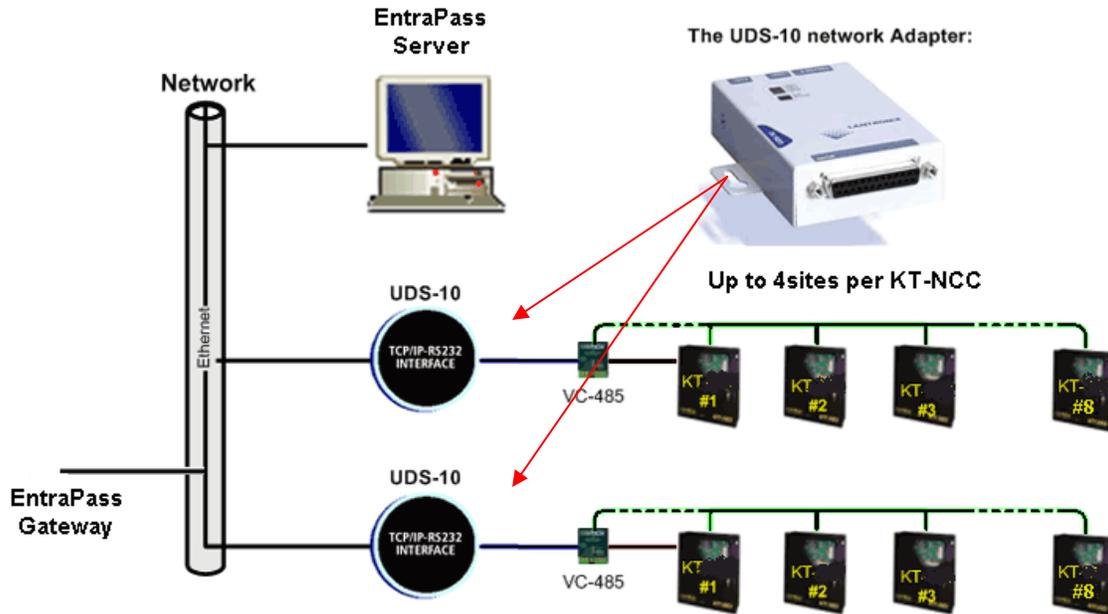

Figure 1

ⓘ **We recommend installing a maximum of 8 controllers per loop when using UDS-10 with EntraPass Global Edition as demonstrated in the example in Figure 1**

2. Make sure that Microsoft .NET framework V1.1 is already installed on the computer. If this device is not installed, you will be prompted to install it before you can complete the Lantronix Device Installer installation.

3. Place the Lantronix UDS-10 cd in the cd drive. Follow the instructions to install the Device Installer V. 3.6 on screen to perform the installation.

2. Configuring the UDS-10 IP Address

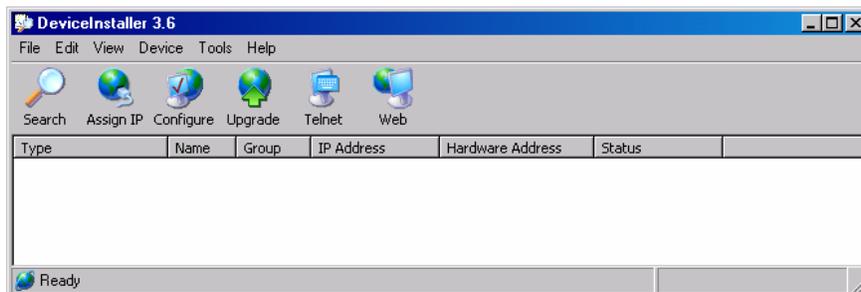1. From the Windows® **Start** menu, select **Program > Lantronix > Device Installer**.

Figure 2

2. In the Device Installer window (Figure 2), click the **Search** icon (magnifying glass). The system will search for the Lantronix installed on your network. A message will pop up on screen, notifying you that some of the devices may not have IP addresses. (See Figure 3.)
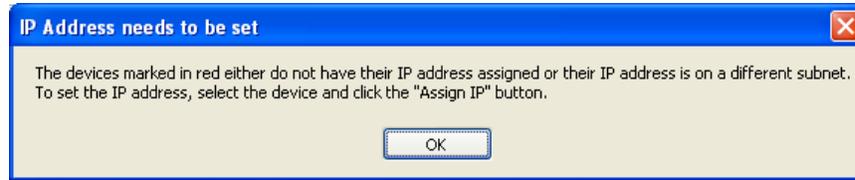

Figure 3

3. Click **OK**. The window will display the list of Lantronix connected to your network.

4. The unit you have just connected will be displayed in red as in Figure 4). If you have more than one unreachable Lantronix in the list, select the UDS-10 with the MAC (hardware) address that corresponds to the MAC address located at the back of the device.
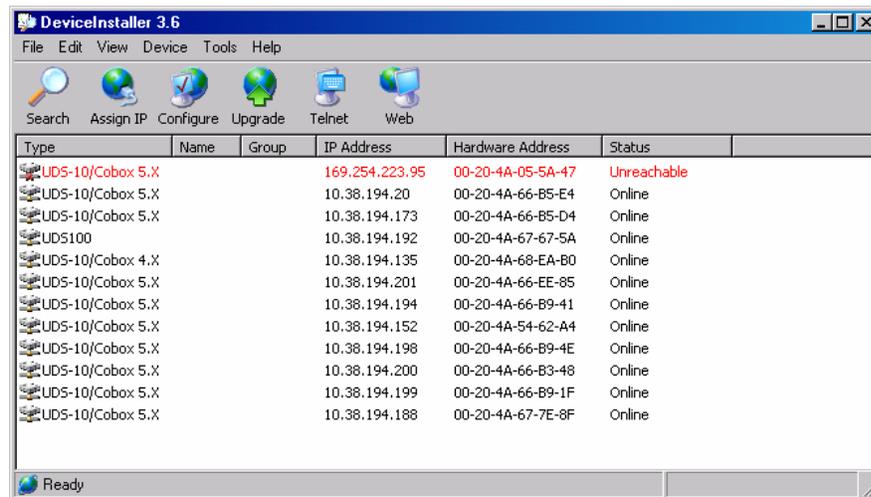

Figure 4

5. Highlight the entry in the list and click the **Assign IP** icon. The Assign IP Address dialog will open on the IP Settings screen. (See Figure 5.)

Figure 5

6. Enter the **IP address**, **Subnet mask**, and **Default gateway** that the System Administrator or IT Department should have provided you.

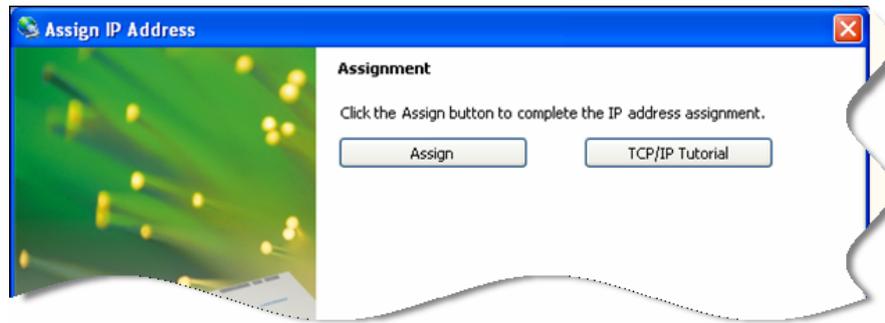7. Click **Next** at the bottom of the screen.

Figure 6

8. In the Assignment window (Figure 6), click **Assign,** and then **Finish** at the bottom of the screen.

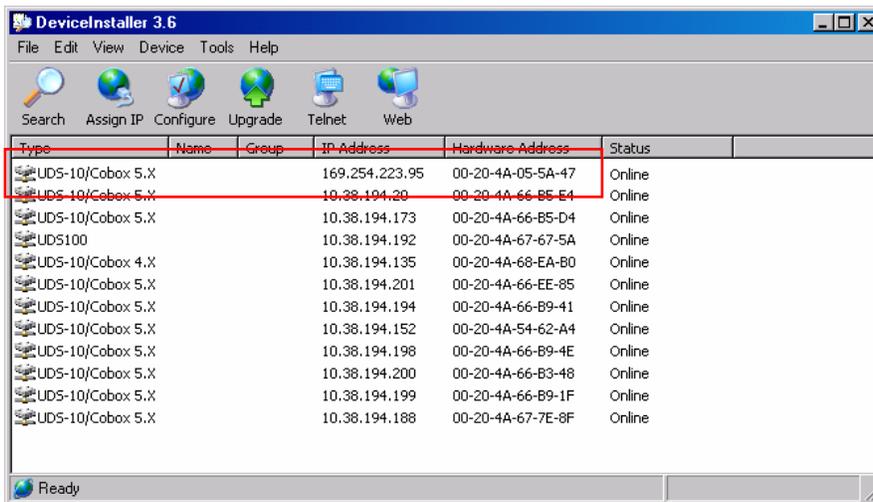9. The Assign IP Address dialog will close and the Device Installer will come back on screen (Figure 7).

Figure 7

10. The device you had previously selected will now display in black.

3. Configuring the UDS-10 Port Number

There are three ways of configuring the Lantronix UDS-10 Port number:

*   Via a Web page.
*   Via the Configure Device dialog.
*   Via a Command Prompt (Shell) window via Telnet.

3.1. Via a Web Page

1. From the Device Installer dialog, click the Web icon to open the Web page. Or if you have a Web page already opened, enter the UDS-10 IP address in the **Address** bar.
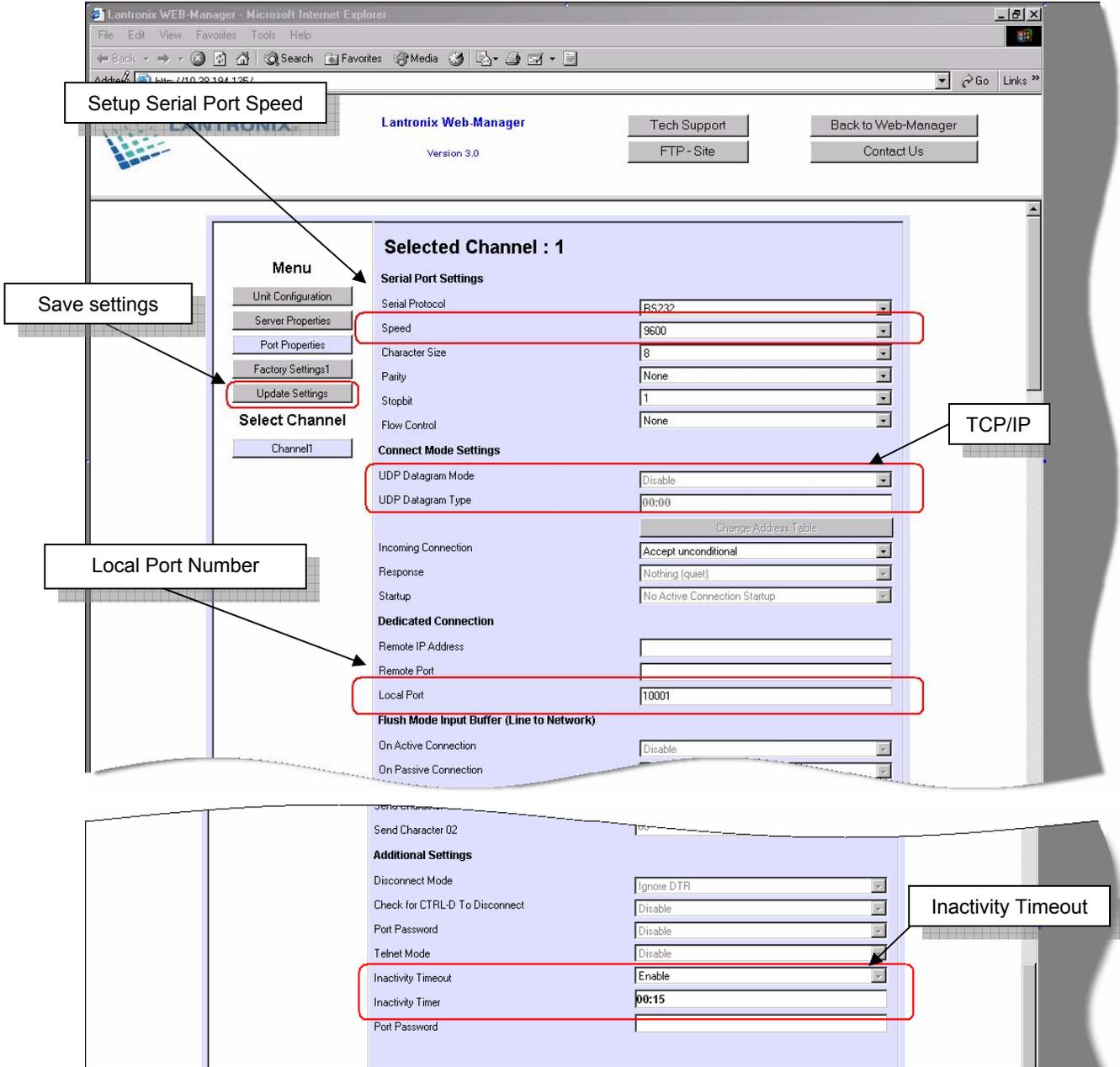

Figure 8

2. Enter the controller **Serial Port Speed**.

⚠ **The KT-200 can communicate at a maximum speed of 19200 baud.**

3. Make sure that the **UDP Datagram Mode** is disabled in a TCP/IP environment.
4. The **Local Port** number entered in the field is the default one. You can customize it.

5. You must **Enable** the **Inactivity Timeout** and set the parameter to **00:15**.
6. Click **Update Settings** to save the settings.
7. Close the Web page. You are ready to configure the Lantronix in EntraPass.

3.2. Via the Configure Device dialog

1. From the Device Installer dialog, click the Configure icon to open the Configure Device dialog.
2. Move to the **Port** tab and click **Edit Settings…** to open the Port Properties dialog.
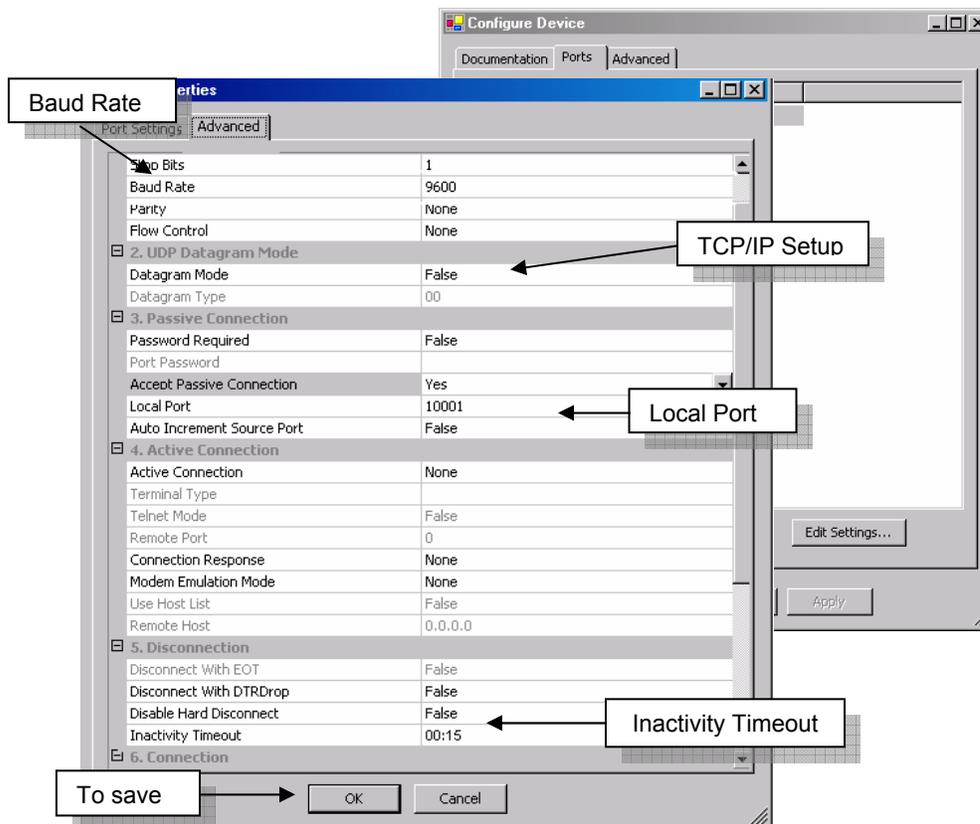3. Move to the **Advanced** tab (Figure 9).

Figure 9

4. Enter the controller **Baud Rate**.

⚠ **The KT-200 can communicate at a maximum speed of 19200 baud.**

5. Make sure that the **UDP Datagram Mode** is set to **False** in a TCP/IP environment.
6. The **Local Port** number entered in the field is the default one. You can modify it to customize it.
7. You must **Enable** the **Inactivity Timeout** and set the parameter to **00:15**.
8. Click **OK** to save the modification.
9. Close the Configure Device dialog. You are ready to configure the Lantronix in EntraPass.

3.3. Via a Command Prompt (Shell) window – Telnet Configuration

1. From the Windows® **Start** menu, select **Run…**

2. Type **cmd** in the **Open** field (Figure 10).

3. Click **Ok** or press **Enter** on your keyboard. A prompt window will open on the screen (Figure 11).
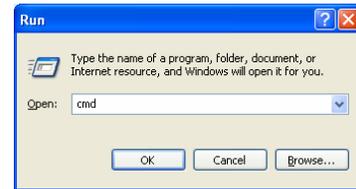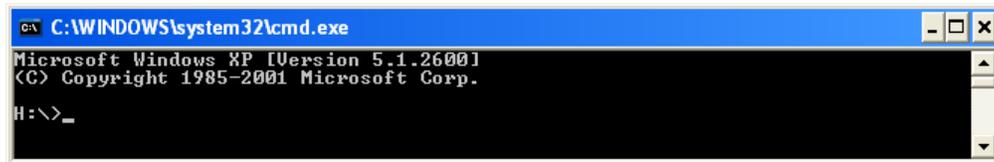

Figure 10

Figure 11

4. Type the **Telnet address:** the IP address you previously assigned followed by **9999**.

   ▪ For example, in our case, the IP address that was assigned earlier was 10.38.194.135. We would then type 10.38.194.135 9999.(Remember to leave a space between the IP address and the 9999)

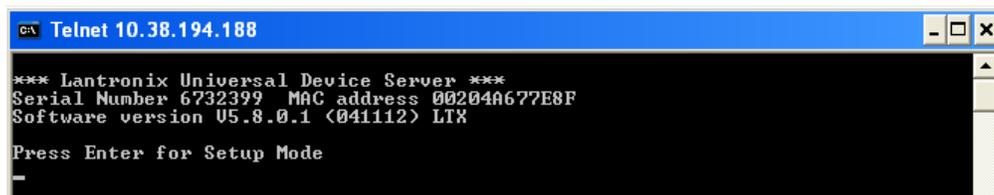5. Press **Enter** on your keyboard. You have now accessed the Lantronix Universal Device Server. (See Figure 12

Figure 12

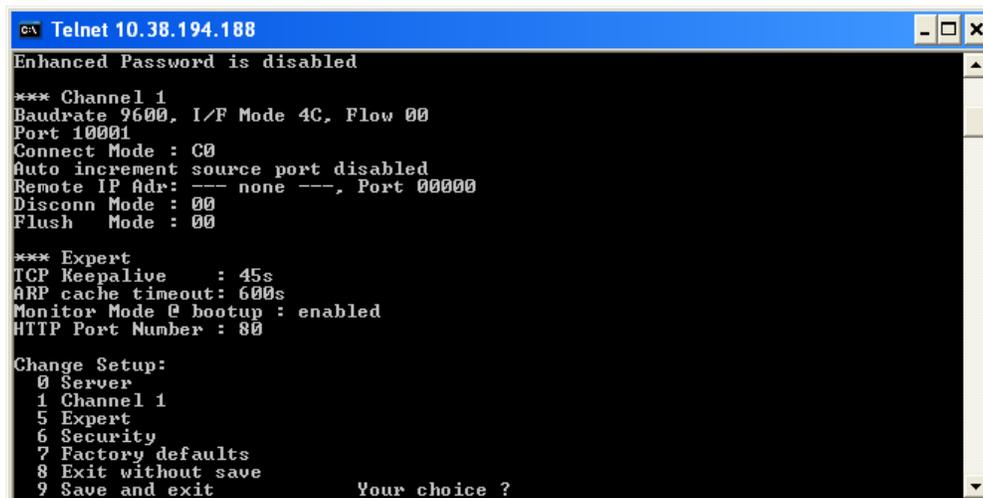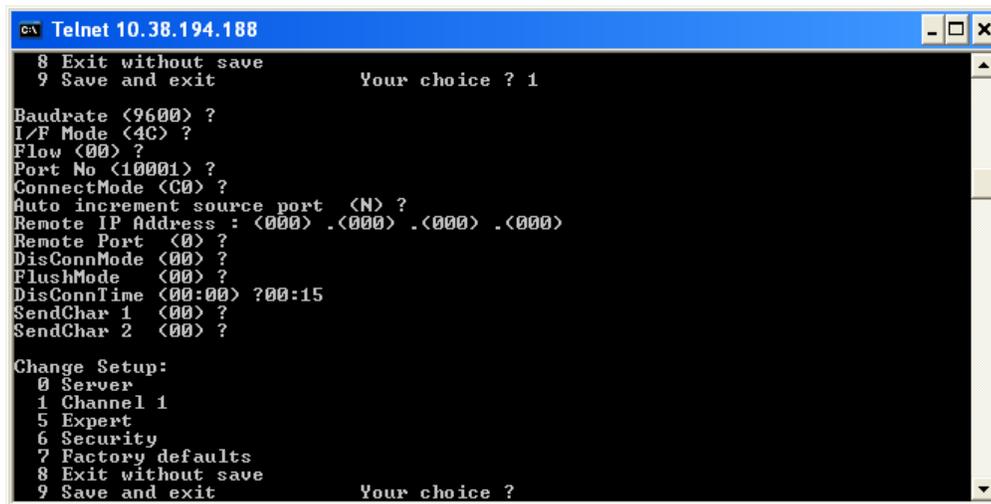6. Press **Enter** on your keyboard to view the **Setup** menu.

Figure 13

7. Type **1** to select the **Channel 1** configuration, and press **Enter** on your keyboard (Figure 14).

Figure 14

8. Enter the controller **Baud Rate**.

9. Press **Enter** until you reach the **Port No** entry. The **Local Port** number entered in the field is the default one. You can modify it to customize it.

10. Make sure that the **UDP Datagram Mode** is set to **False** in a TCP/IP environment.

11. The **Local Port** number entered in the field is the default one. You can modify it to customize it.

12. You must set the **DisConnTime** (inactivity timeout**)** parameter to **00:15**.

13. When you are done, type **9** to save and exit.

14. Press **Enter** on your keyboard to disconnect from the Lantronix Universal Device Server.

15. Type **Exit** and press **Enter** on your keyboard to close the cmd window.

4. Configuring Lantronix in EntraPass Application

1. In EntraPass Workstation application, go to **Device** tab and click **Site** to open the Site dialog (See Figure 15).
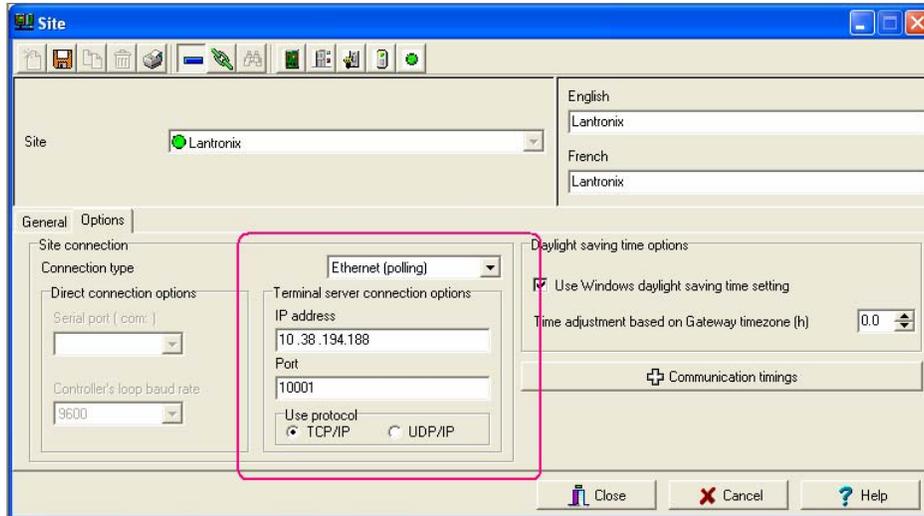

Figure 15

2. Select the **Site** you have just installed.
3. Go to the **Options** tab.
4. Select **Ethernet (polling)** as the **Connection type**.
5. In the **Terminal server connection options** section, enter the **IP address** and **Port number**, and make sure that the **TCP/IP protocol** is selected.
6. Click on the **Save** icon.

5. Verifying communication

1. In EntraPass Workstation application, go to **Device** tab and click **Site** to open the Site dialog (See Figure 16).
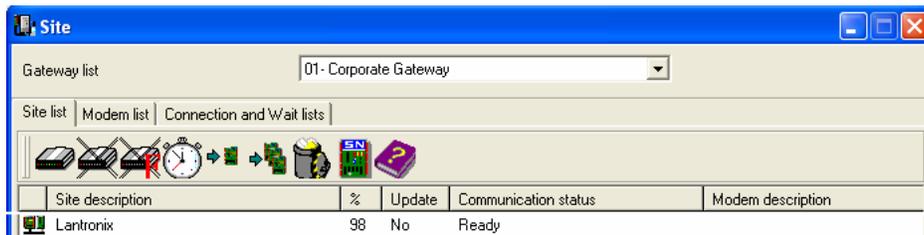

Figure 16

2. Verify that the entry in the Communication status column is **Ready** for the Lantronix you have just installed.