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Lantronix UDS1100 Device Server Configuration for EntraPass

Purpose

Configure an external Lantronix UDS1100 device server to work in a TCP/IP environment with EntraPass Special, Corporate or Global Edition Version 3 (and higher) with a Global Gateway, a Corporate Gateway and/or a KT-NCC.

Requirements

- Computer with EntraPass application already installed.
- Microsoft .NET Framework v1.1 installed.
- Latest DeviceInstaller utility from Lantronix.
- Latest firmware version installed on the external UDS device server from Lantronix.
  http://www.lantronix.com/support/downloads.html
- Lantronix UDS1100 (Kantech part number LA-UDS1100), which includes:
  - 1 UDS1100 external device server,
  - 1 KT-300 modem adaptor (740-1035),
  - 1 VC-485 modem adaptor (740-1033),
  - 1 10ft/3m flat cable with 2 RJ12 connectors
  - 1 CD-ROM with UDS1100 User Guide, software utilities (DeviceInstaller and Com Port Redirector) and Quick Start Guide
- Static IP address, subnet masks and default gateway for the UDS1100 (provided by the IT department or Network 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.

The configuration will be done in 5 procedures. Make sure that you follow all the steps in the proper order.

1. Before you start

1.1 Connect the Lantronix UDS1100 according to the instructions in the Quick Start Guide.

Figure 1: EntraPass with external UDS1100 device server
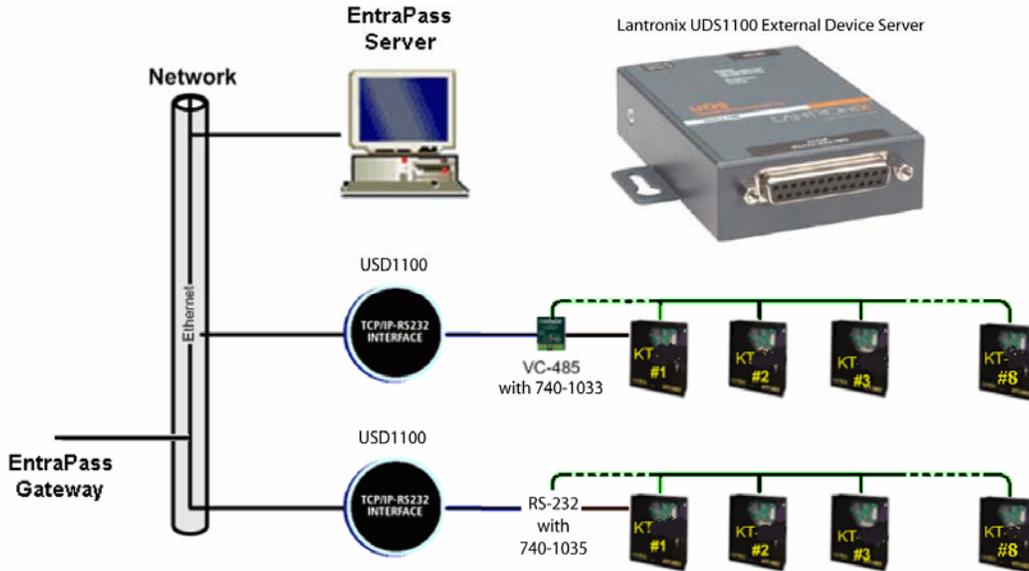
ⓘ **We recommend installing a maximum of 8 controllers per loop when using UDS1100 with EntraPass Global Edition.**

1.2 Install the **DeviceInstaller** utility provided on the Lantronix CD-ROM or download the latest version from Lantronix.

2. Assigning a specific IP address for the UDS1100

2.1 From the Windows® **Start** menu, select **Programs > Lantronix > DeviceInstaller > DeviceInstaller**.

2.2 Click on **Search**, the device should display below **Lantronix Devices**. See Figure 2.

If the device	then
does not display	go to **Step 2.3**
displays as **UDS1100** without an IP address	go to **Step 2.4**
displays as **UDS1100** with an IP address	go to **Step 2.7**

2.3 Contact your region Kantech technical support or go to:

http://www.kantech.com/support/contact_tech_support.aspx

Figure 2: DeviceInstaller main screen
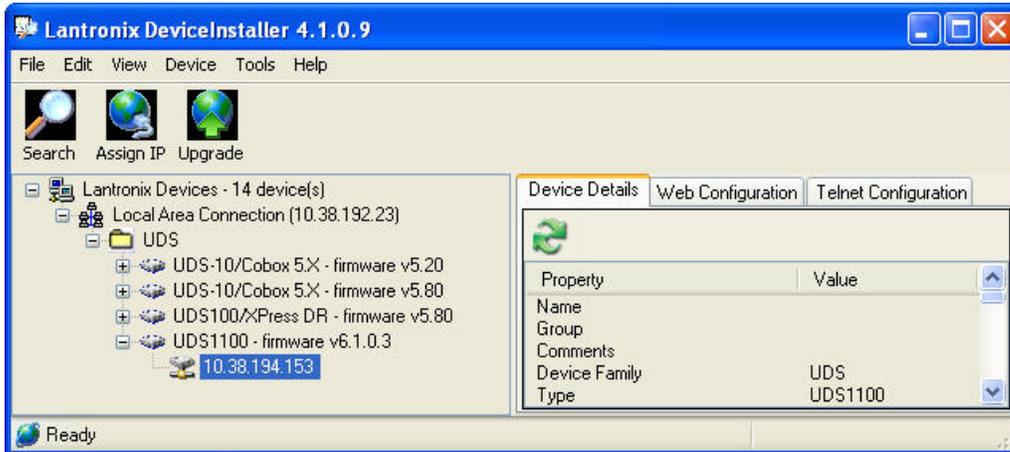
2.4 Enter the hardware (MAC) address of the device. This is typically printed on the back panel
sticker in this form 12-34-56-78-9A-BC.

2.5 Click on **Next**.

2.6 Go to **Step 2.9**.

2.7 Click on the IP address below the device name and then click **Assign IP**.

> *Note:* You may have already an IP address assigned to the device but this is given by the
> DHCP server. Ignore that IP address and follow each step carefully.

2.8 Click on **Next**.

2.9 Select **Assign a specific IP address** and click on **Next**. See Figure 3.

Figure 3: Assignment Method screen

2.10 Enter the **IP address**, **Subnet mask**, and **Default gateway** provided by the network administrator or IT department. See Figure 4.

Note: The IP numbers below are just an example of what needs to be entered.

Figure 4: IP Settings example
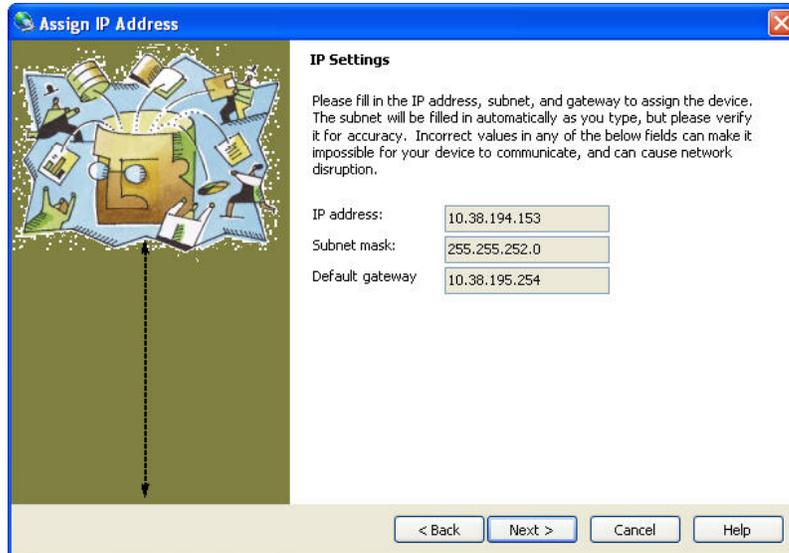
2.11 Click on **Next**.

2.12 Click on **Assign** to complete the IP address assignment. Wait until it says **Completed successfully** and click on **Finish**.

2.13 Click on the new IP address below the device, go to the **Tools** menu, and select **Ping**. The Ping Device dialog should display so you can verify the device's connection. See Figure 5.

Note: You should get 4 replies like in Figure 5. If not, check with your network administrator or IT department for the IP settings.

Figure 5: Ping Device screen

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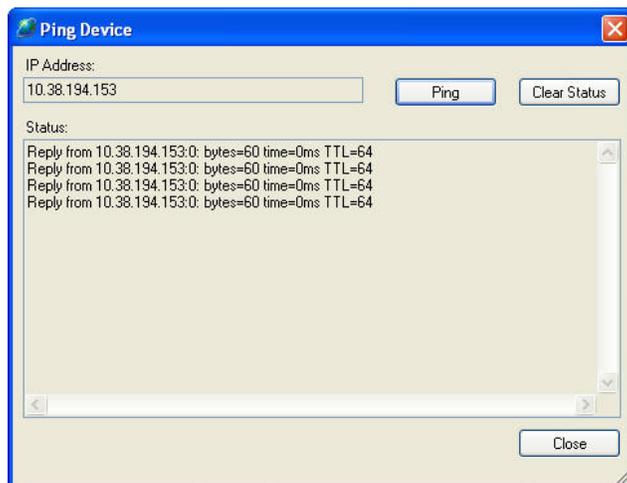
3. Configuring the UDS1100 port number

3.1 From the **DeviceInstaller** dialog, select the UDS1100 IP address you want to configure and click on the **Web Configuration** tab. See Figure 6.

Figure 6: Web configuration tool
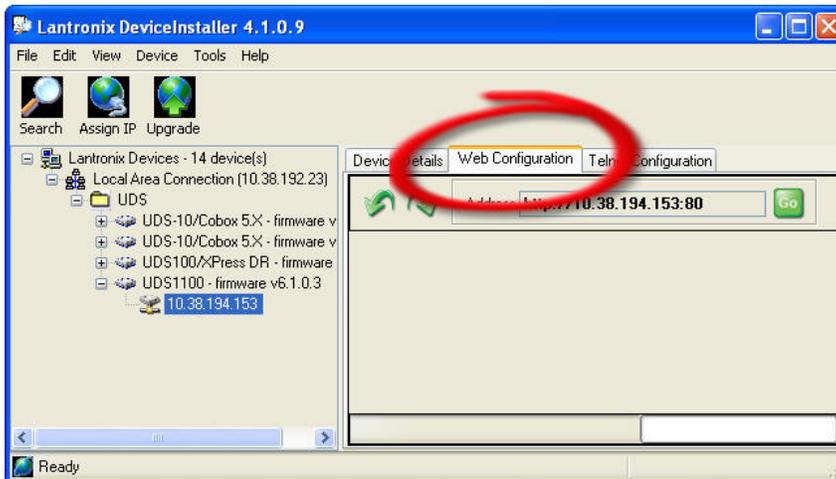
3.2 Click on the **Go** button to open the Web Configuration page. The **UDS1100 Device Server Configuration Manager** should display. See Figure 7.

Note: If a user name and password screen appears, leave both fields blank and click on **OK**.

Figure 7: Web configuration screen
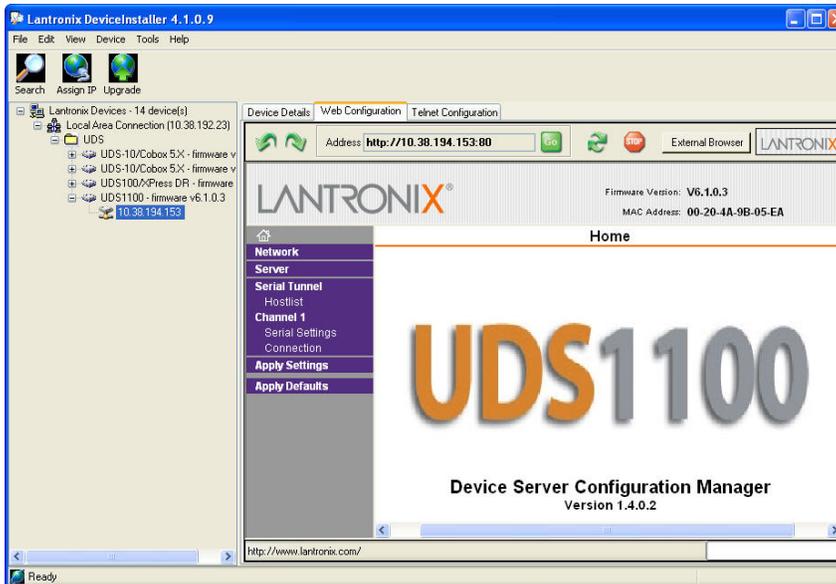
3.3 Under **Channel 1**, click on **Serial Settings**. See Figure 8.

Figure 8: Serial Port Settings

3.4 Make sure the **Port Settings** are as on Figure 8.

Note: The maximum baud rate for the KT-200 controller is 19200.

3.5 Scroll down and click on **OK** to save settings.

3.6 Go back under **Channel 1** and click on **Connection**. See Figure 9.

Figure 9: Connection settings

3.7 Make sure the Protocol is **TCP** and the local port **10001** as on Figure 9**.**

3.8 Scroll down to view the other settings. See Figure 10.

Figure 10: Inactivity Timeout setting
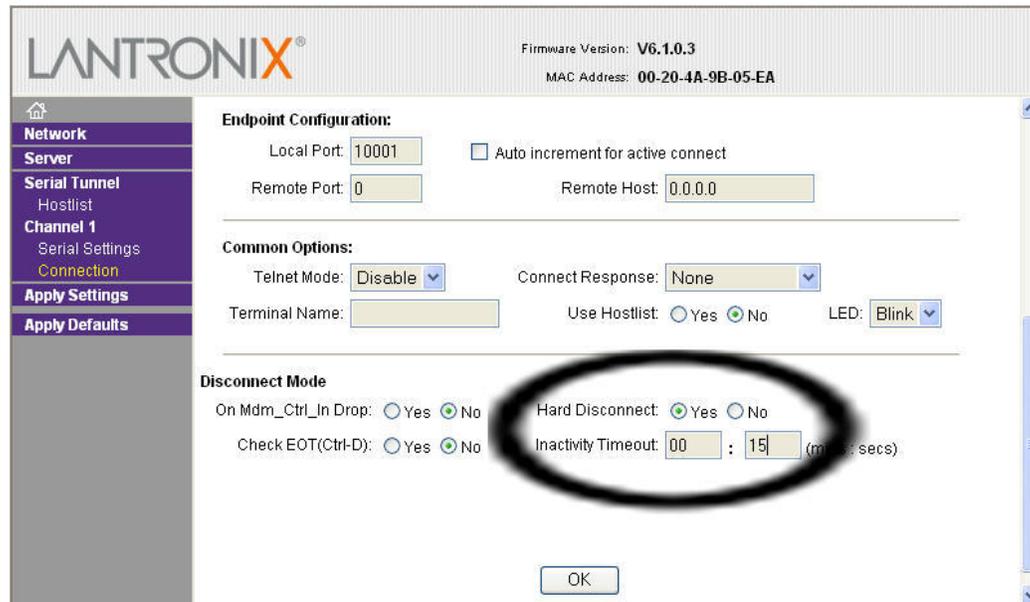
3.9 Set the **Inactivity Timeout** to **00:15**.

3.10 Click on **OK** to save.

3.11 Click on **Apply Settings** to complete the web configuration.

3.12 Wait while the configuration is saved. The unit will reboot in order for the settings to be applied. A confirmation should display below the blue progress bar, saying:

> **Network Connectivity settings have been modified. Please point the browser to the new IP address with the correct HTTP Server Port in order to continue using the web based configuration manager.**
>
> The red DIAGNOSTIC LED on the UDS1100 should go OFF shortly after.

3.13 Click on **Search** in the **DeviceInstaller**. The device should be listed with its new IP address.

3.14 Go to **File** menu and click on **Exit**. You are now ready to configure EntraPass for the device.

4. Configuring EntraPass for the UDS1100

4.1 In the EntraPass Workstation application, go to **Devices** tab and click on **Site** to open the Site dialog. See Figure 11.

If the EntraPass version	then
is earlier than 3.18	go to **Figure 11**
is 3.18	go to **Figure 12**

Figure 11: EntraPass Site dialog for versions earlier than 3.18
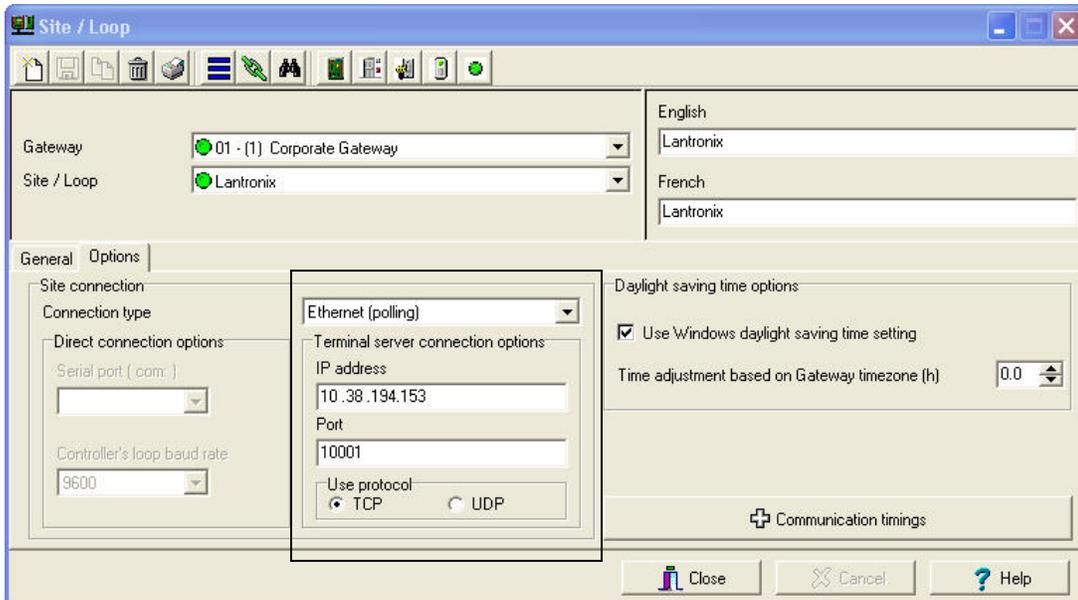
Figure 12: EntraPass Site dialog for version 3.18

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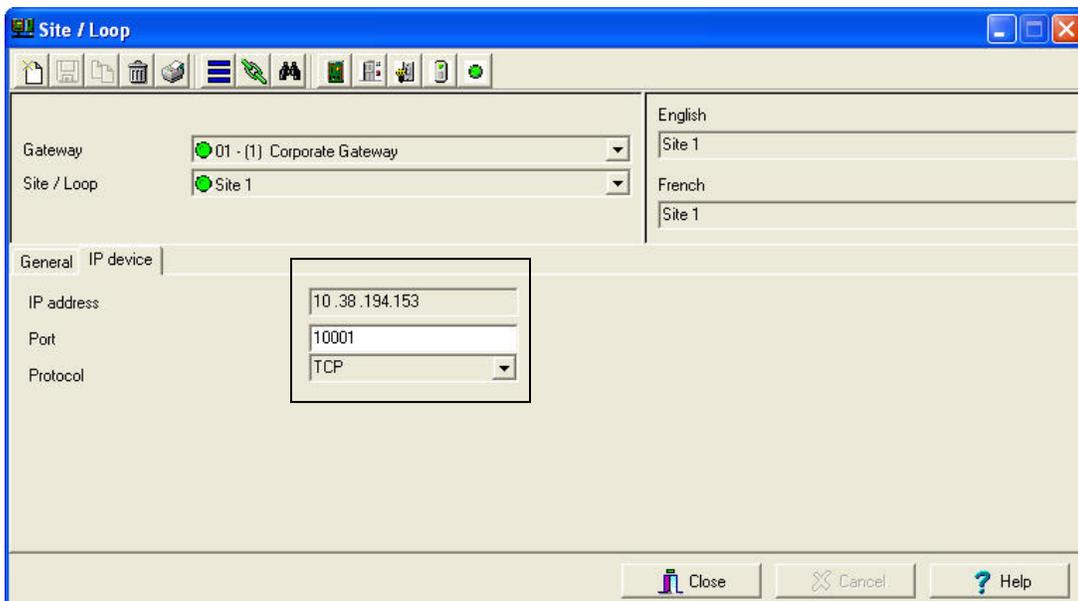
4.2 Select the **Site** that corresponds to the Lantronix UDS1100.

If the EntraPass version	then
is earlier than 3.18	go to **Step 4.3**
is 3.18	go to **Step 4.6**

4.3 Under the **Options** tab, choose **Ethernet (polling)** as the connection type.

4.4 In the **Terminal server connection options** section, enter the IP address without leading zeros, the port number, and make sure that the TCP protocol is selected.

4.5 Go to **Step 4.8**.

4.6 Under the **General** tab, choose **Ethernet (polling)** as the connection type.

4.7 Under the **IP device** tab, enter the IP address without leading zeros, the port number, and make sure that the TCP protocol is selected.

4.8 Click on the floppy disk to **save**.

5. Verifying communication

5.1 In the EntraPass Workstation application, go to **Operation** tab and click on **Site** to open the Site dialog. See Figure 12.

Figure 12: Site dialog
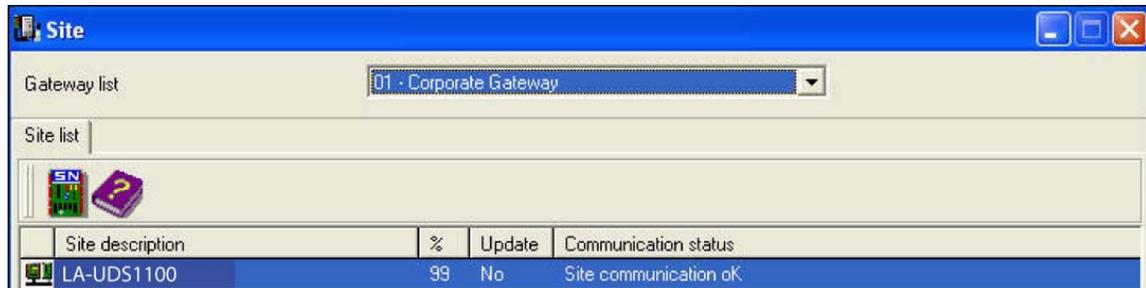
5.2 Verify that the device says **Site Communication OK** under the Communication status column.