

# 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.
   <u>http://www.lantronix.com/support/downloads.html</u>
- 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.

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# 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 <b>UDS1100</b> 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

Section 2012 Secti				X
File Edit View Device Tools Help				
Search Assign IP Upgrade				
🖃 覺 Lantronix Devices - 14 device(s)	Device Details	Web Configuration	Telnet Configuration	
By Local Area Connection (10.38,192.23)     Do UDS     UDS 10/0-bru EV. forward uE 20	2			
	Property		Value	^
<ul> <li>UDS100/XPress DR - firmware v5.80</li> <li>UDS1100 - firmware v6.1.0.3</li> <li>10.38.194.153</li> </ul>	Name Group Comments Device Family Type		UDS UDS1100	*
🏈 Ready	1.			

- **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

	Assignment Method
	Would you like to specify the IP address or should the unit get its settings from a server out on the network?
200 2	C Obtain an IP address automatically
	Assign a specific IP address
	TCP/IP Tutorial



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

🛇 Assign IP Address			×
	IP Settings Please fill in the IP The subnet will be it for accuracy. Ind impossible for your disruption.	address, subnet, and gateway to assign the device. filled in automatically as you type, but please verify correct values in any of the below fields can make it device to communicate, and can cause network	
	IP address:	10.38.194.153	
	Default gateway	255.255.252.0 10.38.195.254	
	<	Back Next > Cancel Help	

- 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

Ping Clear Status
×
Liose



# 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**.

Lantronix DeviceInstaller 4.1.0.9				
File Edit View Device Tools Help				
Search Assign IP Upgrade				
Control (10, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2	Device Detals Web Configuration	etet Configueation 38.194.153:80	Einmuse Ven Mac Add Home	External Browser
	htten / human lankenin ener /			
< >	rich: // www.ianicontk.com/			
🞑 Ready				

Figure 7: Web configuration screen



3.3 Under Channel 1, click on Serial Settings. See Figure 8.

## Figure 8: Serial Port Settings

<u>ቆ</u>	Serial Settings	-
Network Server	Channel 1	
Serial Tunnel	Disable Serial Port	
Channel 1 Serial Settings Connection	Port Settings Protocol: RS232  Flow Control: None	
Apply Settings	Baud Rate: 19200 👻 Data Bits: 8 🌱 Parity: None 🛩 Stop Bits: 1 🖤	
Apply Defaults	Pack Control Enable Packing Idle Gap Time: 12 msec	
	Match 2 Byte Sequence: 🔍 Yes 💿 No Send Frame Only: 🔍 Yes 💿 No	
	Match Bytes: 0x00 0x00 Send Trailing Bytes:  None One O Two	

### **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

₩ ₩	Connection Settings		
Network Server Serial Tunnel Hostlist Channel 1 Serial Settings	Channel 1 Connect Protocol Protocol: TCP V		
Connection	Passive Connection:	Active Connection:	
Apply Settings	Accept Incoming: Yes	Active Connect: None	~
Apply Defaults	Password Required: OYes ONo Password:	Start Character: 0x00 (in Hex) Modem Mode: None	~
		Modem Escape Sequence Pass Through:	⊙ Yes ○ No

**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

Auto increment for active connect
Remote Host 0.0.0.0
le 💙 Connect Response: None 🔽
Use Hostlist: 🔿 Yes 💿 No 🛛 LED: Blink 💌
Yes ⊙ No Hard Disconnect: ⊙ Yes ○ No Yes ⊙ No Inactivity Timeout: 00 : 15 (movif secs)

- 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

👥 Site / Loop					
1800	Ø 🗉 🗞	M 📓 🗄 성 3 🔹			
			English		
Gateway	🗢 01 · (1)	Corporate Gateway			
Site / Loop	Cantroni:	(	French		
			Lantronix		
General Options					
Site connection			Daylight saving time options		
Connection type Ethernet (polling		Ethernet (polling)			
Direct connection	on options	Terminal server connection options	Use Windows daylight saving time setting		
Serial port ( con	n: )	IP address	Time adjustment based on Gateway timezone (h)		
	*	10.38.194.153			
		Port			
Controller's loop baud rate		10001			
9600	*	C UDP	Communication timings		
			Close 🛛 🖉 Cancel 🦵 🥐 Help		

Figure 12: EntraPass Site dialog for version 3.18

🖳 Site / Loop	
Gateway 🗢 01 - (1) Corporate Gateway 💌 Site / Loop 🗣 Site 1	English  Site 1  French  Site 1
General IP device IP address Port Protocol ID .38 .194.153 10001 TCP ▼	,
	👖 Close 🕺 Cancel 💙 Help



**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

🛃 Site			
Gateway list	01 - Corporate Gateway		
Site list			
Site description	%	Update	Communication status
💷 LA-UDS1100	99	No	Site communication oK

**5.2** Verify that the device says **Site Communication OK** under the Communication status column.