



**Pro:Centric<sup>®</sup> Direct**

# **Software Installation & Setup Guide**



For Customer Support/Service, please call:

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# Table of Contents

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Table of Contents . . . . .	3	Troubleshooting . . . . .	28–29
Pro:Centric Direct Product Description . . . . .	4	Network Setup . . . . .	28
Setup Information . . . . .	5–7	Remote Communication . . . . .	29
Pro:Centric Server Requirements . . . . .	5	Network Communication Port Protocols . . . . .	30
Pro:Centric Direct Software Installation		Setting Up Static IP Control Port Configuration	
Prerequisites . . . . .	5	for CentOS Installation . . . . .	31–32
Multicast IP and (Optional) Video Channel		Document Revision History / Open Source	
Assignments . . . . .	6	Software Notice . . . . .	33
System Setup . . . . .	8–14	Back Cover . . . . .	34
Typical Setup Diagram . . . . .	8		
VPN Network Connections Overview . . . . .	9		
Installing the Pro:Centric Direct Software . . . . .	9		
Setting Up the Pro:Centric Direct Network . . . . .	12		
Pro:Centric Direct Configuration			
Options . . . . .	15–27		
Network and Communication Setup . . . . .	15		
Log In to the Pro:Centric Server and			
Access the Main Menu . . . . .	15		
View System Information . . . . .	16		
Modify Network Settings . . . . .	17		
Modify the Server Host Name (via TUI) . . . . .	20		
Modify the Server Host Name (via CLI) . . . . .	22		
Set the Time Zone . . . . .	22		
Change the Login Password . . . . .	24		
Monitor the System . . . . .	24		
Send Ping Commands to Network Hosts . . . . .	25		
Reset the System . . . . .	27		
Shut Down the System . . . . .	27		
Exit the Current Session . . . . .	27		

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## Notes

- Design and specifications subject to change without prior notice.
- This document provides examples of typical command line interface and text-based user interface (TUI) displays. Your displays may vary from those shown in this document.

# Pro:Centric Direct Product Description

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When installed on a customer-supplied Pro:Centric server, LG's Pro:Centric Direct software enables you to create and remotely manage portal and application content for LG TVs on an IP network. This document describes how to install both the CentOS (operating system) platform and the Pro:Centric Direct software on a head end server that has been designated for the Pro:Centric system.

An Internet browser-based Admin Client graphical user interface (GUI), provided for system integrator (SI) partners and lodging/institution administrators, facilitates support and maintenance of the Pro:Centric system. The Admin Client enables users to create portal content and remotely manage system backups, output configuration, software updates, TV configuration settings, etc.

# Setup Information

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## Pro:Centric Server Requirements

The customer-provided server (i.e., the hardware platform) must be installed in accordance with the manufacturer's instructions before the software installation can begin. The following are recommended specifications for the hardware platform:

- Server: Dell PowerEdge R230 or R240 or greater or Supermicro SuperServer SYS-510T-ML
- RAM: 8 GB minimum
- Hard Drive: 512 GB solid state drive (SSD)
- LAN: Two 1 GB Ethernet ports

## Pro:Centric Direct Software Installation Prerequisites

Check/complete the following items before you begin the software installation procedures.

- \_\_\_ Install the Pro:Centric server in the appropriate equipment rack in accordance with the manufacturer's instructions.
- \_\_\_ If not already done, contact your service representative to obtain the URL from which to download the Pro:Centric Direct software. You will need to create a bootable DVD or USB memory device using the ISO image provided.

### Create a Bootable DVD

You can use any preferred DVD burning software (for example, Startup Disk Creator) to create a bootable DVD for the installation, if desired. Make sure your Pro:Centric server has a DVD/CD-ROM drive.

### Create a Bootable USB Memory Device

If you will use a USB memory device to complete the installation, use one of the options listed below to create the bootable USB device.

**Note:** The ISO image may require up to 2 GB.

- On a Linux system, use the following command to create the bootable USB memory device:  
**sudo dd bs=4K if=ProCentric-x.x-\*\*\*.\*\*\*\*\*.iso of=/dev/sdX oflag=direct status=progress,**  
where x.x is the Pro:Centric Direct software version number (for example, 4.0) and /dev/sdX is the disk object.
- On a Windows system, either use win32 Disk Imager (GPLv2) (<https://sourceforge.net/projects/win32diskimager/>) or Rufus (GPLv3) (<https://rufus.akeo.ie/>) to create the bootable USB memory device. If using Rufus, make sure to select **DD Image** in the "Create a bootable disk using" field under Format Options.

- \_\_\_ Connect a monitor and keyboard to the server.

## Setup Information (Cont.)

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- Make the Ethernet cabling connections as indicated in the bullets below.

The Ethernet ports on the server are labeled numerically 1, 2, etc. (for example, “Gb1” and “Gb2” on the Dell server). The first Ethernet port will be designated the Control Port and will be used for Pro:Centric remote management, while the second Ethernet port typically will be designated the Feature Port and will be used for multicast output of Pro:Centric data and video streams (see note below for exception if the server has more than two Ethernet ports).



**Note:** During installation, the server Control Port must have a route to the Internet in order to retrieve operating system updates. Make sure the network server (default: DHCP) provides a DNS gateway that allows access to the Internet. If the network server does not use DHCP, you will be able to specify static IP configuration after installation is initiated.

- Connect a CAT5 RJ-45 Ethernet cable between the server’s Control Port and the institution’s network.
- Connect a CAT5E or better Ethernet cable between the server’s Feature Port and the institution’s IP distribution network.

### Multicast IP and (Optional) Video Channel Assignments

Customers may work with a content provider to create Pro:Idiom® encrypted content for IP video playout channels. The server generates 23 multicast data streams with support for one program each. The first two streams are reserved for site data, while the remaining streams provide output of up to 21 programs of video content. Note that each IP stream is limited to 19.4 Mbps.

**Note:** While video playout/content channels are optional, at least two IP multicast addresses must be used/reserved for site data. Also, once the Pro:Centric Direct software is installed, output parameters are configured in the Pro:Centric Direct Admin Client. Along with this document, it is recommended that you have a copy of the **Pro:Centric Direct Admin Client User Guide** readily available.

- Ensure the institution’s IP network and room receivers support IPv4 multicast and that the network is capable of selectively routing multicast traffic. Refer to vendor equipment documentation for further information.
- Create a channel assignment plan for the installation site, or modify an existing plan to incorporate the IP output of the Pro:Centric server. Ensure that up to 23 unused and unreserved IPv4 multicast addresses, within the designated range 225.0.0.0 to 238.255.255.255, are allocated for the Pro:Centric server IP output.

The IP start channel is user-assigned in the Admin Client, and the remaining channel assignments are then automatically incremented. For example, if the IP start channel assignment is 227.0.0.40, the remaining channels will be 227.0.0.41, 227.0.0.42, etc. Since the first two streams are reserved for site data, the first video content channel in this scenario will be 227.0.0.42.

## Setup Information (Cont.)

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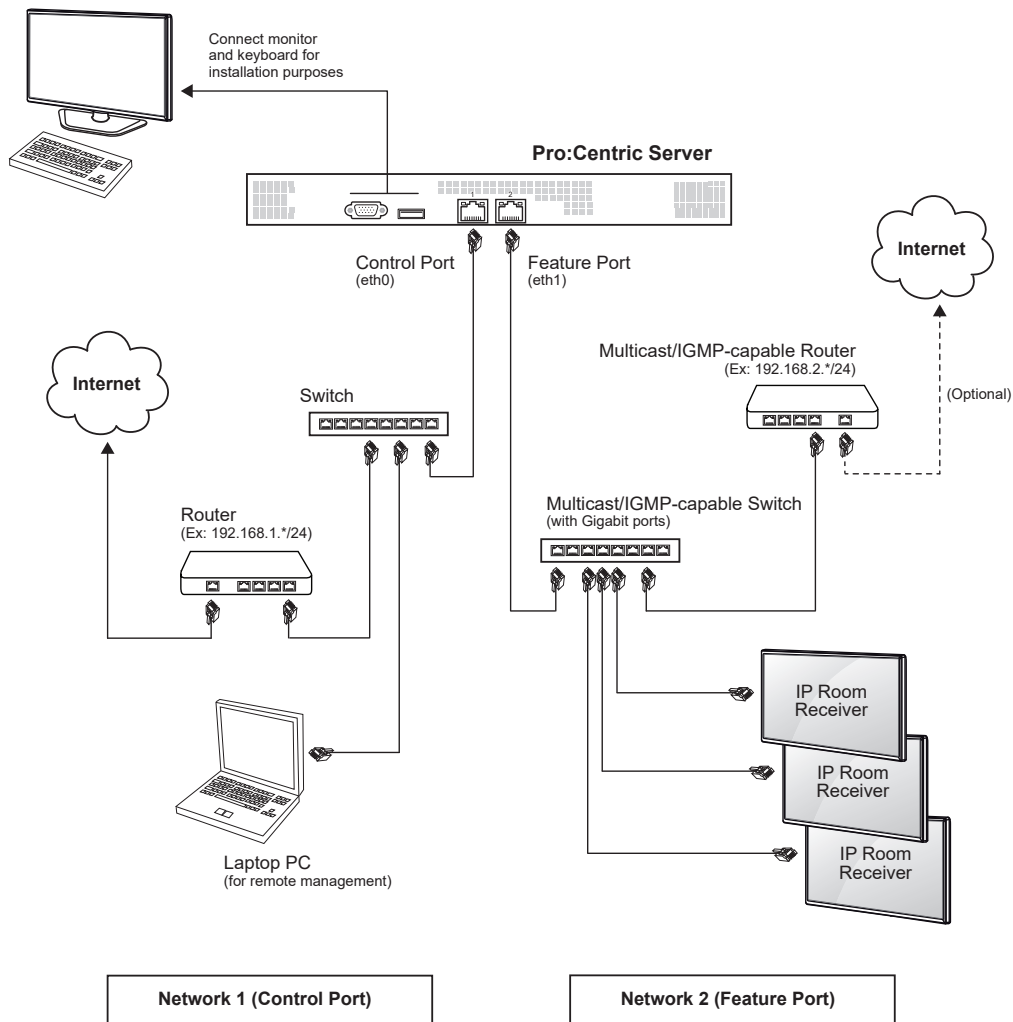
- \_\_\_ Reserve one User Datagram Protocol (UDP) port for the multicast data streams. You can use the system default (1234) or another unassigned port number, for example, 50000, 50001, etc. The port must avoid conflict with other protocols in use.

**Note:** Refer to the IANA IPv4 Multicast Address Space Registry and/or the IANA Service Name and Transport Protocol Port Number Registry for further IP address/port information as required. See also Reference section, “Network Communication Port Protocols.”

# System Setup

Refer to the following diagrams, and complete the system software installation and configuration as described on pages 9 to 14.

## Typical Setup Diagram



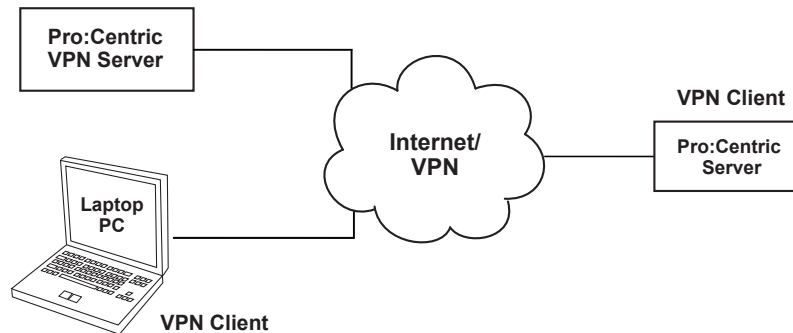
### Notes:

- The Control Port and the Feature Port connect to two separate data networks.
- Control Port: Used for Pro:Centric remote management. Enable DHCP or set static IP address.
- Feature Port: Used for multicast output of Pro:Centric data and video streams or for unicast output of Pro:Centric data, if desired, when using Pro:Centric Direct 4.0 or later. Must be configured with IP address on a different subnet or network than the Control Port IP address, but should be on the same network as the TVs.



## System Setup (Cont.)

### VPN Network Connections Overview



### Installing the Pro:Centric Direct Software

This section describes how to install the Pro:Centric Direct software on the server. The software installation comprises both the operating system (CentOS) and the Pro:Centric Direct software. See also the typical setup and VPN network connections diagrams above.

The procedure assumes that the server hardware has been installed in accordance with the manufacturer's instructions and is connected to an AC power source. Make sure all Pro:Centric Direct software installation prerequisites listed on pages 5 to 7 have been completed and that you have the software ready to install (either via DVD or USB memory device).



**Caution:** Once you initiate the installation, any data that is currently on the hard drive will be erased.



**Caution:** If you are using this procedure to upgrade your server from an earlier PCD version to PCD version 4.x or later, make sure to export (from the Admin Client) the Pro:Centric server data, in particular, so that you can save your portal projects. See “Export Pro:Centric Server Data” information in the *Pro:Centric Direct Admin Client User Guide*. Once the software update is complete, you can import the exported data back to the server.

1. Power on the server (if not already done), and then:
  - If you are using a DVD for the software installation, load the DVD into the server's DVD/CD-ROM drive, or
  - If you are using a USB memory device for the software installation, insert the USB device into one of the USB ports on the server.
2. While the server is booting up, press **F11** on the keyboard to access the BIOS menu, and then select the appropriate device from which to boot—DVD or USB device.

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# System Setup (Cont.)

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**Note:** Newer servers may default to UEFI boot mode. In order for the image to install correctly on your server, the boot mode must be set to legacy BIOS and not UEFI. If you see a CentOS Installer screen instead of the Pro:Centric Installer screen (see example below), the boot mode is not correct.

After a few moments, you will see a Pro:Centric Installer screen on display.

```
Pro:Centric Installer vx.x

Install PCD to /dev/sda
Install PCD to /dev/sdb

WARNING. All information on the hard disk will be lost!

This install assumes 2+ NICs, 8+ Gb RAM, 500+ Gb disk (SSD preferred).

The host MUST be connected to a network with DNS and internet access.
It assumes DHCP. To configure a static IP, login as 'network' ('network')
on first boot, at the CentOS login prompt.
```

3. The Installer screen shows two “PCD” installation directory options, with the first option highlighted. Press **Enter** to initiate the installation from the first highlighted option.



**Note:** The operating system is unable to determine the exact installation path once the installation media (DVD or USB device) is loaded/inserted. If the first installation option is not applicable, you will see a “Not enough space in file systems for the current software selection” error message shortly after the installation begins. In this case, either press <Ctrl> + <Alt> + <Del> or power the server off and then back on to return to the Installer screen. Then, select/highlight the second “PCD” installation option, and press Enter.

This portion of the installation process transfers the CentOS image from the DVD or USB device to the server’s hard drive and may take up to 15 minutes (depending on the installation media). Progress messages will be displayed on the screen. When the transfer is complete, the server will shut down.

4. The next step depends on the installation media used for the image transfer:
  - If you used a DVD, power on the server, and then remove the DVD from the DVD/CD drive immediately.
  - If you used a USB device, remove the USB device from the USB port, and then power on the server.

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## System Setup (Cont.)

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Once the server boots back up, you will see a new Installer screen with CentOS installation options.

5. The appropriate CentOS option, i.e., the first option on the screen, will already be selected/highlighted, and the installation will proceed automatically in five seconds. You can also press **Enter** to continue immediately, if desired.

This portion of the installation process updates the operating system. A Pro:Centric banner will be displayed, and then you will see progress messages on the screen.



**Note:** Per installation prerequisites (see pages 5 to 7), the server must be able to access the Internet during the installation. By default, the Pro:Centric server uses DHCP and will attempt to connect to a DHCP server via the Control Port. If a DHCP server is NOT configured on the system, you will see the following prompt with CentOS header after about five minutes:

```
CentOS Linux 7 (Core)
Kernel version

pcd login:
```

You must log in as “network” at this time, and set up static IP configuration. See Reference section, “Setting Up Static IP Control Port Configuration for CentOS Installation,” for detailed information.



**Note:** If the server is not able to access the Internet, either via a DHCP server or via a static IP network you set up (see note above), the login prompt shown above will be redisplayed. Check/update the network configuration as necessary (see also “Network Setup” troubleshooting information on page 28). When you are ready to continue, press <Ctrl> + <Alt> + <Del> to return to the CentOS installation options screen.

When this segment of the installation is complete, the server will reboot and then proceed with the final portion of the installation process, which installs the Pro:Centric Direct software.

**Note:** During the installation, the server will reboot. During the reboot, the software installation is still in progress. Do NOT power off the server during this process.

This portion of the software installation process may take up to 30 minutes.

When the installation is complete, you will see a login prompt with a Pro:Centric Direct header:

```
PCD Pro:Centric Direct vx.x-xxxx
Copyright (C) 2020 LG Electronics U.S.A., Inc.

pcd login:
```

6. Continue with the “Setting Up the Pro:Centric Direct Network” procedure below.

# System Setup (Cont.)

---

## Setting Up the Pro:Centric Direct Network

This section describes how to complete the initial network configuration for the Pro:Centric server once you have installed the software as described in the previous section.

**Note:** If you already set up network configuration (as the “network” user) during the software installation process, you may not need to perform the setup steps below, unless you would like to change/update any of the configuration.

**Note:** Since, by default, the Pro:Centric server uses DHCP for both ports, if a DHCP server is also configured for the Feature Port, the DHCP server will assign an IP address to the Feature Port once the Pro:Centric server successfully connects to the network.

1. At the `pcd login:` prompt, type **admin** and press **Enter**. Then, at the `password:` prompt, type **Password4Partners** (case-sensitive) and press **Enter**.



**Note:** After the initial system setup is complete, it is highly recommended that you change the admin user password from its default value. See “Change the Login Password” on page 24 for further information.

Once you are logged in successfully, you will see a `Command >` prompt.

**Note:** You can press **Enter** at any command prompt to view the current menu, if desired.

**Note:** If you would like to view the server’s current configuration settings, you can use the “info” command to view the System Information display, which includes the IP addresses that have been assigned to/configured for both ports, as applicable. See “View System Information” on page 16 for further information. If the Control Port network is configured for DHCP but the Control Port IP address is not currently displayed in the System Information display, refer to “Network Setup” troubleshooting information on page 28.

2. (Recommended) This step describes how to set static IP addresses for the Control Port and/or Feature Port. Though not required, it is recommended that the Control Port (used for remote management) be configured with a static IP address, and it is highly recommended that the Feature Port be configured with a static IP address. See also notes below.

**Note:** Static configuration for the Feature Port is recommended, regardless of whether you are configuring the system for Multicast Mode or Unicast Mode, as the Feature Port IP address is embedded in every deployed Pro:Centric application project. After a project has been deployed and any TVs/STBs (to which the project has been deployed) complete a boot cycle, the TVs/STBs automap themselves to the Pro:Centric server using the Feature Port IP address. If the Feature Port IP address is assigned by a DHCP server, and the DHCP server experiences an interruption, such as a loss of power or network connectivity, the IP address assignment may change, and this will cause the Pro:Centric server to lose communication with the TVs/STBs.

**Note:** If static IP configuration for the Control Port was already completed as part of the software installation, you do not need to repeat these steps for the Control Port.

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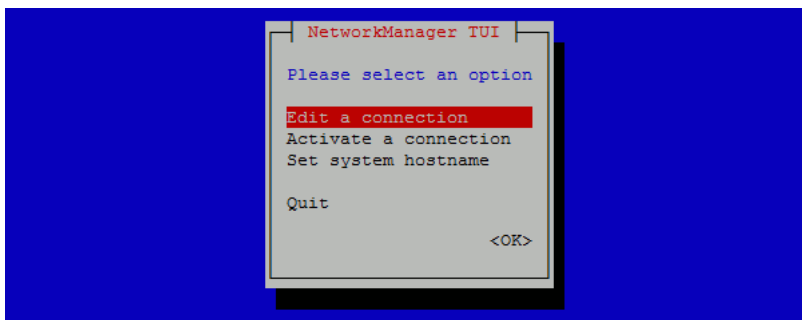
## System Setup (Cont.)

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**Note:** For detailed information on this step and additional screen samples, see “Modify Network Settings” on pages 17 to 20.

- a) At the `Command >` prompt, type **setip** and press **Enter**.

TCP/IP configuration is performed in the CentOS Network Manager TUI (text-based user interface). The system will display the Network Manager menu.



- b) Select/highlight **Edit a connection** and press **Enter**.
- c) In the next screen, select/highlight the port you wish to configure and press **Enter**.
- d) With the Edit Connection screen for the selected port on display:
- Add the appropriate IP address in the format `xxx.xxx.xxx.xxx/xx`, where the last two digits (after the forward slash) identify the network mask bits for the IP address.
  - Add the gateway (if applicable) and DNS IP addresses in the format `xxx.xxx.xxx.xxx`.

See also notes below.



**Note:** In order to avoid a service interruption, do not modify any of the other fields in the Edit Connection screen. In particular, do NOT modify the data in the Profile Name and Device fields.



**Note:** The Feature Port IP address MUST be on a different subnet than the Control Port IP address, but should be on the same network as the TVs. Also, while either IPv4 or IPv6 is supported for the Control Port, the Feature Port must be configured on an IPv4 network.



**Note:** Do not specify a gateway IP address for the Feature Port.

- e) When you are finished with network configuration for the selected port, select/highlight **<OK>** at the bottom right of the Edit Connection screen and press **Enter**.
- f) Repeat steps (c) to (e), as required, to complete configuration for the second port.

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# System Setup (Cont.)

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- g) When you are finished with port configuration, select/highlight **<Quit>** at the bottom right of the port selection screen and press **Enter** to return to the Network Manager menu. To exit the Network Manager and return to the `Command >` prompt, select **Quit** and press **Enter**.

**Note:** Review the configuration data for each port carefully before you confirm the settings. Ensure each of the addresses was entered correctly.

**Note:** You may also edit the host name from the Network Manager menu, if desired. See “Modify the Server Host Name (via TUI)” on pages 20 to 22 for further information. Avoid using spaces or special characters, such as ?, -, etc., in the host name.

- 3. (Optional) Set the Pro:Centric server time zone.

By default, the server is synchronized with an NTP server and configured for the US Eastern time zone. If the server is connected to the Internet, the NTP client will periodically update the time setting on the server. You can set the time zone as required. If the server is not connected to the Internet, you also have the option to specify date and time data manually.

Use the “tz” command (available from the `Command >` prompt) and follow the system prompts to change the time zone setting on the Pro:Centric server. See “Set the Time Zone” on pages 22 to 23 for further information.

**Note:** If you change the time zone, you will be prompted to reset the system. Continue with step 4.

- 4. If you made any configuration changes in steps 2 or 3, reset the Pro:Centric server: At the `Command >` prompt, type **reset** and press **Enter**.

The reset process may take several minutes, after which the server resumes normal operation.

The remainder of the system setup—configuration of IP output parameters, video playout settings, Pro:Centric Channel Map, etc.—is performed in the Pro:Centric Direct Admin Client. Refer to the ***Pro:Centric Direct Admin Client User Guide*** for further information.

# Pro:Centric Direct Configuration Options

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## Network and Communication Setup

This section describes Pro:Centric server communication options for configuration purposes.



**Note:** Before you proceed with any additional configuration, the Pro:Centric Direct software should be installed and configured as described in the procedures on pages 9 to 14.

Also note that configuration updates periodically require that you reset the Pro:Centric server. Make sure to reset the unit when directed to do so.

There are two typical options for communicating with the Pro:Centric server:

- Use an SSH client to communicate with the server via a command line interface. If necessary, consult the network administrator to obtain the IP address that has been assigned to/configured for the server's Control Port.
- Connect a monitor, keyboard, and mouse directly to the server.

You will need to know the "admin" user password in order to log in to the command line interface. The default admin user password is "Password4Partners" (case-sensitive). If necessary, for example, if the password has been changed from its default value, consult the system administrator to obtain the current admin user password.

**Note:** If you want to connect a PC directly to the server's Control Port using an Ethernet CAT5E cable, in order for communication to be established, the server's IP address must be on the same subnet as the PC's IP address.

## Log In to the Pro:Centric Server and Access the Main Menu

**Note:** The server must be connected to the IP network for SSH client access. See also "Network and Communication Setup" above for further information.

1. Establish communication with the server using an SSH client or via a direct connection to the server.

Once communication is established, you should see a login prompt. (If the login prompt is not automatically displayed, press **Enter** to refresh the screen.)

2. At the `login as:` prompt, type **admin** and press **Enter**.
3. At the `Password:` prompt, type the admin password and press **Enter**.
4. At the `Command >` prompt, either:
  - Press **Enter** to display the Pro:Centric Direct Main Menu (see example below).
  - Type the desired command and press **Enter**.

The following sections describe each of the configuration commands.

**Note:** You can always press **Enter** at the `Command >` prompt to display the Pro:Centric Direct Main Menu.

# Pro:Centric Direct Configuration Options (Cont.)

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## *Example: Pro:Centric Direct Main Menu*

```
-----  
Main Menu  
-----  
info          System information  
setip         TCP/IP Setup Menu  
hostname      Set server host name  
tz            Timezone setup  
pwd           Change password  
monitor       System monitor  
ping          Send ICMP ECHO_REQUEST to network hosts  
reset         System Reset  
shut          Shutdown the system  
exit          End the session  
  
Command >
```

## **View System Information**

1. Log in to the server as described on the previous page.
2. At the `Command >` prompt, type **info** and press **Enter**.

The System Information display identifies important information about the server, including the unit serial number, hardware ID (firmware version), software versions, MAC addresses, IP addresses, etc., for example:

```
PCD Pro:Centric Direct vx.x-xxxx  
Copyright (c) 2020 LG Electronics U.S.A, Inc.  
  
SN:           5L55QD2  
Hardware ID:   4.0  
OS version:    Linux 3.10.0-327.el7.x86_64  
OS release:    #1 SMP Mon Jul 29 17:46:05 UTC 2019  
Ctrl MAC:      f4:8e:38:c4:d5:ee  
Ctrl IP:       10.1.2.3  
Ctrl IP V6:    n/a  
Feat MAC:      f4:8e:38:c4:d5:f0  
Feat IP:       10.4.5.6  
Feat IP V6:    n/a  
VPN IP:        n/a  
Multicast:     236.0.0.0:1234  
Docker Vers:   17.09.0-ce, build afdb6d4  
Local time:    Tue Sep 1 17:48:23 CDT 2020
```

where x.x-xxxx is the version and build number of the HTML application.



# Pro:Centric Direct Configuration Options (Cont.)

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**Note:** The first Ethernet port is always used as the Control Port, while the second Ethernet port is typically used as the Feature port. If there are more than two ports, the last port should be used as the Feature Port.

It is recommended that you record this information for future reference. If you find it necessary to call customer service or engineering support, please have this information available.

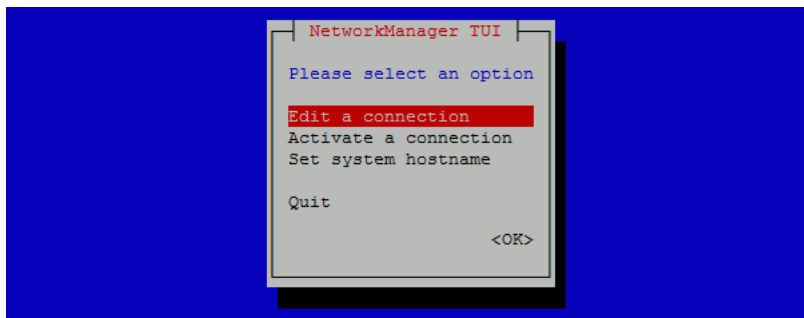
## Modify Network Settings

This section describes how to modify the network settings of the Pro:Centric server Ethernet ports. The Control Port is used for remote management/communication purposes, while the Feature Port is designated for the server's IP output.

**Note:** It is highly recommended that the Feature Port be configured with a static IPv4 address, regardless of whether you are configuring the system for Multicast Mode or Unicast Mode, as the Feature Port IP address is embedded in every deployed Pro:Centric application project. After a project has been deployed and any TVs/STBs (to which the project has been deployed) complete a boot cycle, the TVs/STBs automap themselves to the Pro:Centric server using the Feature Port IP address. If the Feature Port IP address is assigned by a DHCP server, and the DHCP server experiences an interruption, such as a loss of power or network connectivity, the IP address assignment may change, and this will cause the Pro:Centric server to lose communication with the TVs/STBs.

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, type **setip** and press **Enter**.

The system will display the Network Manager menu, for example:



3. Select/highlight **Edit a connection** and press **Enter** to modify the IP configuration of either the Control Port or the Feature Port.

**Note:** To exit the Network Manager and return to the Main Menu prompt without modifying any settings, select **Quit**. You may also modify the server's host name from the Network Manager. See "Modify the Server Host Name (via TUI)" on pages 20 to 22 for further information.

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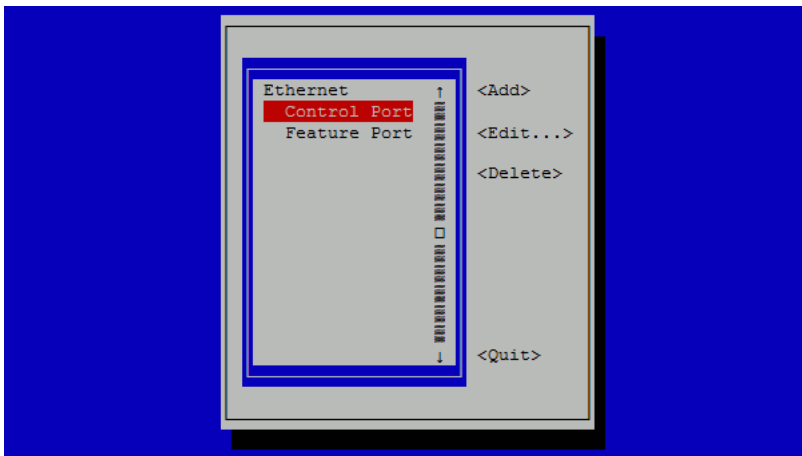
## Pro:Centric Direct Configuration Options (Cont.)

---

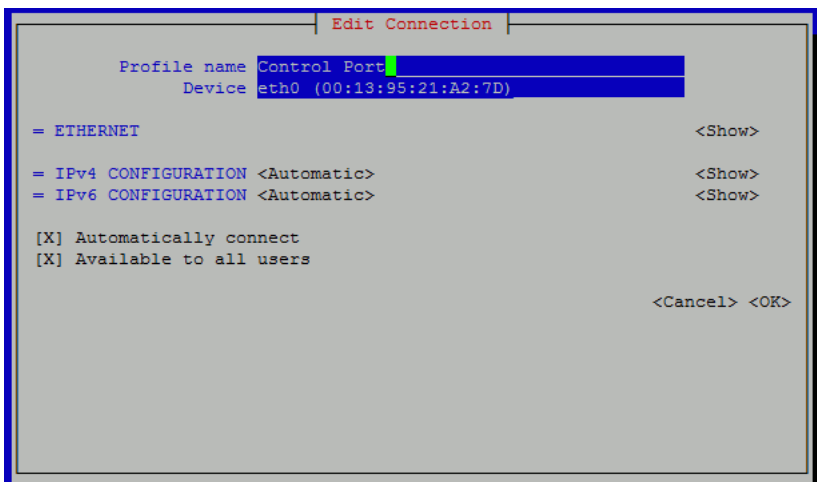
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4. In the next screen, select/highlight the port profile to modify, and then press **Enter**.

**Note:** Depending on your server type and the PCD software version, the Ethernet ports may have different names, for example, em1 and em2 or eno1 and eno2, etc. The first Ethernet port is always used as the Control Port, while the second Ethernet port is used as the Feature port.



Once you select a port, the Edit Connection screen for that port will be displayed, for example:



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# Pro:Centric Direct Configuration Options (Cont.)

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**Note:** Steps 5 to 9 identify all fields that may require modification for the purposes of the Pro:Centric network. In order to avoid a service interruption, do not modify any of the other fields in the Edit Connection screen. In particular, do NOT modify the data in the Profile Name and Device fields.

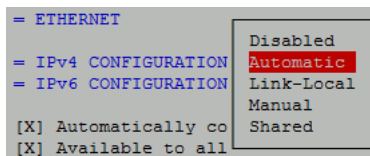


**Note:** The Feature Port IP address **MUST** be on a different subnet than the Control Port IP address, but should be on the same network as the TVs. Also, while either IPv4 or IPv6 is supported for the Control Port, the Feature Port must be configured on an IPv4 network.

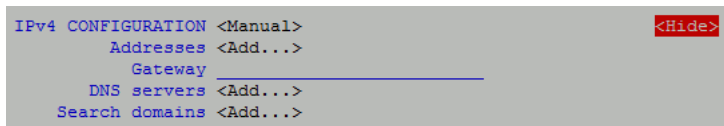


**Note:** Do not specify a gateway IP address for the Feature Port.

5. To change the port configuration from Automatic to Manual or vice versa, select/highlight the appropriate IP Configuration field (IPv4 or IPv6—see also note above) and press **Enter**. Then, select the appropriate option (**Automatic** or **Manual**) from the drop-down menu.



6. The next step depends on your selection in the previous step.
  - If you selected Automatic, go to step 9.
  - If you selected Manual, continue with step 7.
7. If you are configuring static (i.e., manual) settings, select/highlight **<Show>** at the right of the IP Configuration field and press **Enter** to view the expanded configuration fields.



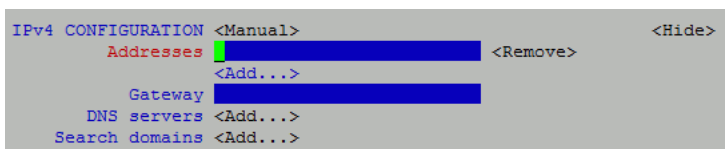
8. Complete the following configuration:
  - Select/highlight **<Add...>** and press **Enter** in the Addresses field. Then, type the appropriate IP address in the format xxx.xxx.xxx.xxx/xx, where the last two digits (after the forward slash) identify the network mask bits for the IP address.

In the Gateway field (Control Port only—see also note above), type the gateway IP address in the format xxx.xxx.xxx.xxx.

(Continued on next page)

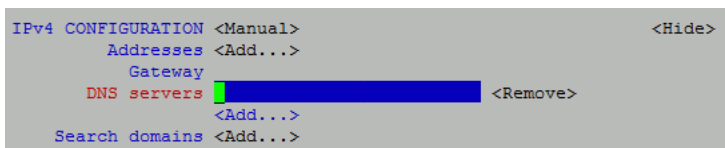
# Pro:Centric Direct Configuration Options (Cont.)

(Continued from previous page)



**Note:** If you do not specify the network mask bits in the port's IP address, as indicated above, the system will not create a local route over the network interface (unless the interface is used as the system's default route).

- Select/highlight **<Add...>** and press **Enter** in the DNS Servers field, and type the primary DNS IP address (in the format xxx.xxx.xxx.xxx). As required, select **<Add...>** again and type the secondary DNS IP address.



9. (Recommended) Change the unused port configuration from "Automatic" to "Ignore." For example, for the Feature Port, select/highlight the IPv6 Configuration field and press **Enter**. Then, select **Ignore** from the drop-down list of options.
10. When you are finished, select/highlight **<OK>** at the bottom right of the Edit Connection screen and press **Enter**.
11. Repeat steps 4 to 10 for the second port as required. When you are finished with port configuration, select/highlight **<Quit>** at the bottom right of the port selection screen and press **Enter** to return to the Network Manager menu. To exit the Network Manager and return to the Main Menu prompt, select **Quit** and press **Enter**.
12. If you changed the port configuration, you will need to reset the system. If you are ready to reset the system immediately, at the `Command >` prompt, type **reset** and press **Enter** (see "Reset the System" on page 27 for further information).

**Note:** If you intend to modify additional configuration settings during the current session, you may wait until all changes are complete before you reset the system.

## Modify the Server Host Name (via TUI)

This option enables you modify the server's host name via the Network Manager TUI Menu.

**Note:** You may also use the "hostname" option in the Pro:Centric Direct Main Menu to modify the server's host name. See "Modify the Server Host Name (via CLI)" on page 22 for further information. The most recent update determines the server's host name, regardless of which command you choose to use.

(Continued on next page)

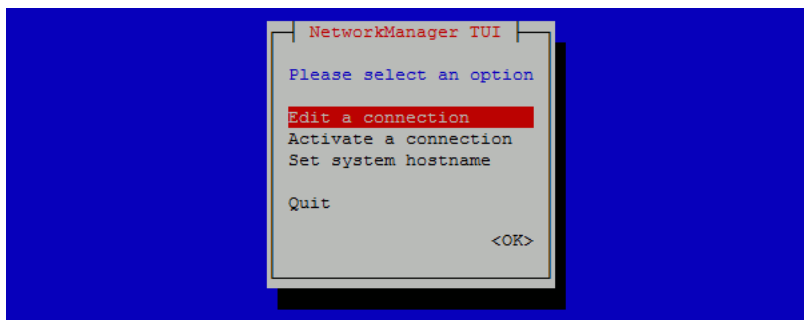
# Pro:Centric Direct Configuration Options (Cont.)

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(Continued from previous page)

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, type **setip** and press **Enter**.

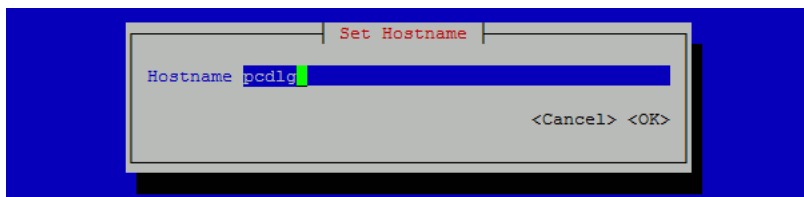
The system will display the Network Manager menu, for example:



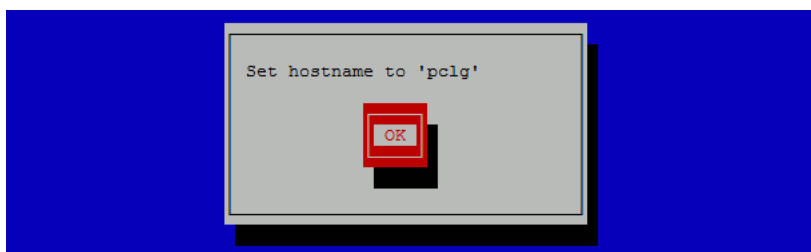
3. Select/highlight **Set system hostname** and press **Enter**.

**Note:** To exit the Network Manager and return to the Main Menu prompt without modifying any settings, select **Quit**. You may also modify Control and Feature Port configuration from the Network Manager. See "Modify Network Settings" on pages 17 to 20 for further details.

4. The Hostname field in the Set Hostname screen shows the current host name. Modify the host name as required, and then press **Enter**. Avoid using spaces or special characters, such as ?, -, etc.



5. At the prompt for confirmation, press **Enter**.



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# Pro:Centric Direct Configuration Options (Cont.)

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6. If you changed the host name, you will need to reset the system. If you are ready to reset the system immediately, at the `Command >` prompt, type **reset** and press **Enter** (see “Reset the System” on page 27 for further information).

**Note:** If you intend to modify additional configuration settings during the current session, you may wait until all changes are complete before you reset the system.

## Modify the Server Host Name (via CLI)

This option enables you modify the server’s host name via the command line interface.

**Note:** You may also use the “Set system hostname” option in the Network Manager TUI Menu to modify the server’s host name. See “Modify the Server Host Name (via TUI)” on pages 20 to 22 for further information. The most recent update determines the server’s host name, regardless of which command you choose to use.

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, type **hostname** and press **Enter**.

The system will prompt you to type the new host name:

```
Enter host name:
```

3. Type the new host name, and then press **Enter**. Avoid using spaces or special characters, such as `?`, `-`, etc.

Once you enter the new host name successfully, the system displays confirmation:

```
Host name has been set. Please reset the system.
```

4. If you are ready to reset the system immediately, at the `Command >` prompt, type **reset** and press **Enter** (see “Reset the System” on page 27 for further information).

**Note:** If you intend to modify additional configuration settings during the current session, you may wait until all changes are complete before you reset the system.

## Set the Time Zone

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, type **tz** and press **Enter**.

The system displays the current time zone information for the server and prompts you to specify whether or not you wish to change the time zone.

```
Current time zone is: America/New York
Change the time zone? [y/n]:
```

3. Either:

- Type **y** and press **Enter** to change the time zone. Then, continue with step 4.

(Continued on next page)

# Pro:Centric Direct Configuration Options (Cont.)

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(Continued from previous page)

- Type **n** and press **Enter** to return to the Main Menu `Command >` prompt without changing the current time zone.
4. The system will display the following prompt for a location, followed by a list of options:  

```
Please identify a location so that time zone rules can be set correctly.  
Please select a continent or ocean.
```

At the `#?` prompt, type the number that corresponds to the appropriate option for your location, and then press **Enter**.
  5. The system will display the following prompt for a country, followed by a list of options:  

```
Please select a country.
```

At the `#?` prompt, type the number that corresponds to the appropriate option for your country, and then press **Enter**.
  6. The system will display the following prompt for a region, followed by a list of options:  

```
Please select one of the following time zone regions.
```

At the `#?` prompt, type the number that corresponds to the appropriate option for your region, and then press **Enter**.

After you specify the time zone region, the system displays an overview of your location selections and prompts for confirmation, for example:

```
The following information has been given:  
  
    United States  
    Central Time  
  
Therefore TZ='America/Chicago' will be used.  
Local time is now:      Tue Sep 1 11:58:48 CDT 2020.  
Universal Time is now: Tue Sep 1 16:58:48 CDT 2020.  
  
Is the above information OK? [y/n]:
```
  7. Either:
    - Type **y** and press **Enter** if the information in the display is correct. The system will confirm the setting and then prompt you to reset the server. Continue with step 8.  

```
Timezone has been changed.  
Please restart the server.
```
    - Type **n** and press **Enter** to return to the initial location prompt and reset the time zone (repeat this procedure from step 4).
  8. If you are ready to reset the system immediately, at the `Command >` prompt, type **reset** and press **Enter** (see “Reset the System” on page 27 for further information).  
**Note:** If you intend to modify additional configuration settings during the current session, you may wait until all changes are complete before you reset the system.

# Pro:Centric Direct Configuration Options (Cont.)

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## Change the Login Password

The login password must be at least eight characters in length and can only contain letters and/or numbers (Aa, Bb, Cc, 1, 2, 3, etc.) and hyphen and dot (- and .) characters. No other alternative or special characters (:, /, \, @, etc.) are applicable. For security purposes, it is recommended that the admin user login password be unique to the system. Note also that the login password is case-sensitive.

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, type **pwd** and press **Enter**.

The system will prompt you to type and retype the new admin user password:

```
Changing password for user admin.  
New password:  
Retype new password:
```

3. Type and then retype the new password at the prompts. Press **Enter** after each entry.

Once you complete the Password fields successfully, the system displays confirmation:

```
passwd: all authentication tokens updated successfully.
```

## Monitor the System

This option enables you to view dynamic video streaming data.

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, type **monitor** and press **Enter** to display the current system data. See example below.
3. The system data will refresh every second. When you are finished monitoring streaming data, press **Enter** to stop the system monitor and return to the `Command >` prompt.

*Example: System Monitor Display*

```
SYSTEM MONITOR  
  
Date:      2020-09-04 16:44:27  
SN:       5L55QD2  
Version:   1.2  
Output:    IP  
Pg/RF:     3
```

(Continued on next page)



## Pro:Centric Direct Configuration Options (Cont.)

(Continued from previous page)

Bitrates (Mbps) :

Slot	Content	Secs	Mbit	Pct	IP	Port
1	GEM Data	176378	20.7	-	236.0.0.0	1234
2		-	0.0	-	236.0.0.1	1234
4		-	0.0	-	236.0.0.2	1234
5		-	0.0	-	236.0.0.3	1234
6		-	0.0	-	236.0.0.4	1234
7		-	0.0	-	236.0.0.5	1234
8		-	0.0	-	236.0.0.6	1234
9		-	0.0	-	236.0.0.7	1234
10		-	0.0	-	236.0.0.8	1234
11		-	0.0	-	236.0.0.9	1234
12		-	0.0	-	236.0.0.10	1234
13		-	0.0	-	236.0.0.11	1234
14		-	0.0	-	236.0.0.12	1234
15		-	0.0	-	236.0.0.13	1234
16		-	0.0	-	236.0.0.14	1234
17		-	0.0	-	236.0.0.15	1234
18		-	0.0	-	236.0.0.16	1234
19		-	0.0	-	236.0.0.17	1234
20		-	0.0	-	236.0.0.18	1234
21		-	0.0	-	236.0.0.19	1234
22		-	0.0	-	236.0.0.20	1234
23		-	0.0	-	236.0.0.21	1234
24		-	0.0	-	236.0.0.22	1234

Press <Enter> key to exit the monitor

The system monitor display shows streaming data for each of the active video programs. The first column in the display shows the channel slot numbers for which video playlists can be defined (up to 21). Slots 1 and 2 are reserved for data and Slot 3 is unused (and is not shown in this display). The remaining 21 slots (4–24) are available for streaming video content that resides on the server's hard drive.

**Note:** Output parameters are configured in the Pro:Centric Direct Admin Client. Refer to the *Pro:Centric Direct Admin Client User Guide* for further information.

### Send Ping Commands to Network Hosts

This option enables you to ping network hosts for troubleshooting purposes. Multiple data variables (flags) are available, as described below.

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, you can either:

(Continued on next page)

# Pro:Centric Direct Configuration Options (Cont.)

---

(Continued from previous page)

- Type **ping destination**, where *destination* is the IP address or domain name of the network host, and then press **Enter** to ping the desired network host without any ping option flags.

The system will continue to send ping messages and display data until you press **Enter**.

- Type a ping command with flags (see examples below) and press **Enter** to collect specific data. Each flag name and input should be preceded and followed by a space, as shown in the Ping Commands With Flags example below.

If you did not specify the number of messages to send, the system will continue to send ping messages and display data until you press **Enter**.

- Type **ping** and press **Enter** to display information on ping command options. See Ping Command Usage Information example below.

3. (Unlimited messages only) When you are finished monitoring ping data, press **Enter** to stop the ping messages and return to the `Command >` prompt.

Once the ping messages are stopped (either manually via “Enter” press or via a Count flag), the system will display a summary of the ping statistics.

## *Example: Ping Commands With Flags*

**Note:** Ping commands are not case-sensitive; however inputs are limited to letters and/or numbers (Aa, Bb, Cc, 1, 2, 3, etc.) and dot, hyphen, and underscore (., -, and \_) characters.

```
ping 1.2.3.4 c 2
ping 1.2.3.4 c 4 i eth0
ping 1.2.3.4 c 2 s 20 t 3
```

## *Example: Ping Command Usage Information*

```
Usage: ping <destination> [ COUNT c ] [ SIZE s ] [ TTL t ] [ INTERFACE i ]
```

Send ICMP ECHO\_REQUEST messages to the specified address.

Optional flags:

```
COUNT c      is the number of messages to send, default is unlimited
SIZE  s      is the number of data bytes, default is 50
TTL   t      is the IP packet's TTL value
INTERFACE i  is the interface to send from, such as eth0 or eth1
```

Flag names may be shortened, e.g. you may type `t` instead of `TTL`.

All options are limited to the set of alphanumeric characters and dot, hyphen, and underscore: `a-z A-Z 0-9 . - _`

`Command >`

# Pro:Centric Direct Configuration Options (Cont.)

---

## Reset the System

1. If not already logged in, log in to the server as described on page 15.
2. At the `Command >` prompt, type **reset** and press **Enter**.

The system will prompt for confirmation:

```
Are you sure you want to reset the system? [y/n]:
```

3. Either:
  - Type **y** and press **Enter** to initiate an immediate reset of the server. The reset process may take up to two minutes, after which the system resumes normal operation.
  - Type **n** and press **Enter** to return to the Main Menu without resetting the system.

## Shut Down the System

This command allows you to shut down the system in an orderly manner. Use this command to shut down the server, for example, if you intend to physically move the unit from one location to another.

**Note:** Once you use this command, you must be on location to turn the server back on. It is not possible to turn on the server remotely.

1. Log in to the server as described on page 15.
2. At the `Command >` prompt, type **shut** and press **Enter**.

The system will display a warning and then prompt for confirmation:

```
WARNING!
```

```
You are about to shutdown the server.
```

```
The only way to turn it back on would be by pressing  
the power button on the server which requires a physical  
access to the server.
```

```
Are you sure you want to turn off the system? [y/n]:
```

3. Either:
  - Type **y** and press **Enter** to shut down the system immediately.
  - Type **n** and press **Enter** to return to the Main Menu without shutting down the system.

## Exit the Current Session

At the `Command >` prompt, type **exit** and press **Enter** to end the current session.

# Troubleshooting

## Network Setup

---

The following are basic troubleshooting steps for the Pro:Centric server network.

**Note:** Make sure the behavior of each LED on the server accords with the manufacturer's documentation. Also, make sure all connectors and connections are tight and secure on all entertainment system components.

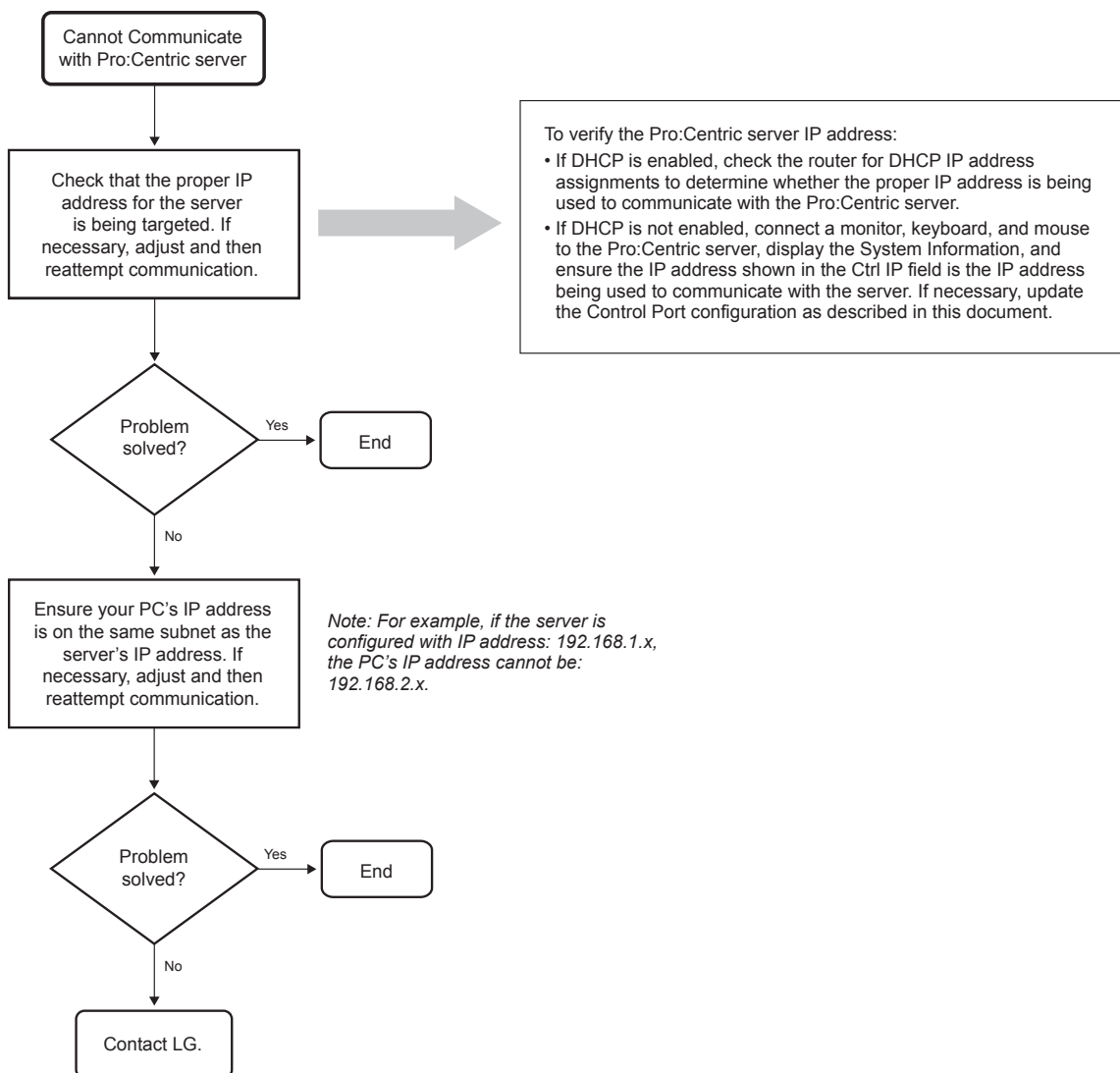
If the network is configured for DHCP but the Pro:Centric server has not been assigned an IP address, i.e., the Ctrl IP field in the System Information display is blank:

1. Check the Control Port connector on the rear panel of the server. Make sure the cable connection is tight and secure.
2. Observe the green LED on the Control Port. Once the server is connected to the network, the LED will be lit continuously.
3. Contact the network administrator to verify the network status and check that the DHCP server is working properly.

# Troubleshooting (Cont.)

## Remote Communication

If you are unable to establish remote communication with the Pro:Centric server, refer to the following flow chart.



# Reference: Network Communication Port Protocols

---

This section lists the ports that should be enabled on the Pro:Centric network in order to support communication protocols between the Pro:Centric server and TVs/STBs. Make sure not to assign any ports that will conflict with other protocols in use.

On the Control Network:

---

Port Number	Protocol
Ports 443 & 1194	VPN for remote access
Port 9934	Admin Client for Pro:Centric GUI
Port 21	FTP for: <ul style="list-style-type: none"><li>• EPG data updates</li><li>• Video files upload for multiple video channels</li></ul>
Port 80	HTTP for weather updates and access to Pro:Centric Admin Client login page
Port 123	NTP time/date fetch

---

On the Feature Network:

---

Port Number	Protocol
Port 9443	Auto-mapping
Port 9555	Events
Port 8070	(Default) Application delivery over Unicast
Port 8080	VOD
Port 80	HTTP

---

# Reference: Setting Up Static IP Control Port Configuration for CentOS Installation

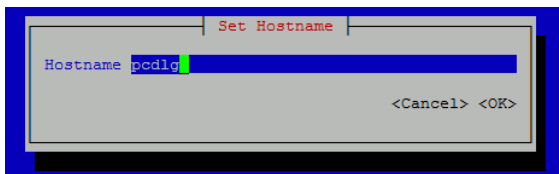
---

The following procedure describes how to log in as the “network” user during the CentOS software installation, if required, to specify static IP configuration for the Control Port.

**Note:** The “network” user exists only for this initial installation purpose. Once the IP network is configured, the server reboots, and the installation proceeds successfully, the network user is expunged.

1. At the `pcd login:` prompt, type **network** and press **Enter**. Then, at the `password:` prompt, type **network** (case-sensitive) and press **Enter**.

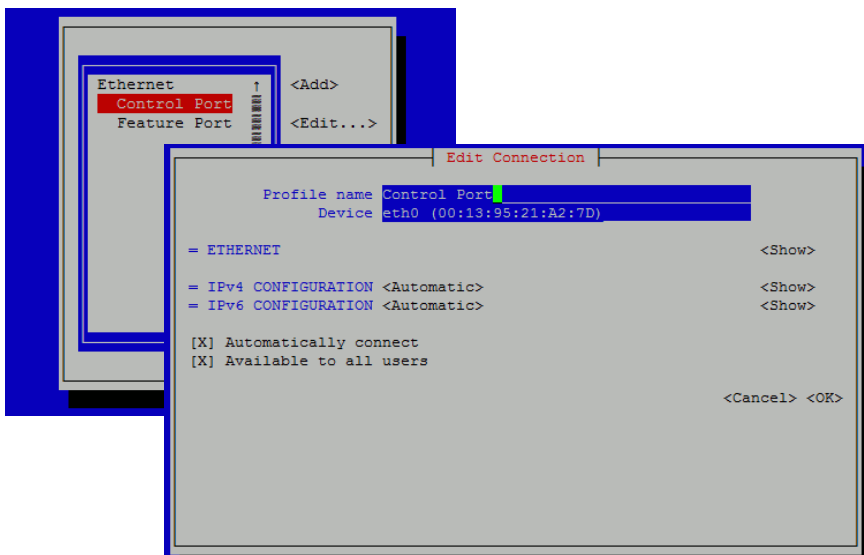
The CentOS TUI (text-based user interface) will launch with a host name prompt:



2. This step is optional. The Hostname field shows the current host name, and you may modify the host name, as necessary (avoid using spaces or special characters, such as ?, -, etc.). Press **Enter** to continue. Then, at the prompt for confirmation, press **Enter** again.

**Note:** You may also modify the host name at a later time via the Pro:Centric Direct Main Menu. See “Modify the Server Host Name (via CLI) on page 22 or “Modify the Server Host Name (via TUI)” on pages 20 to 22 for further information.

The next TUI screens will enable you to specify the configuration for the Control Port.



(Continued on next page)

# Reference: Setting Up Static IP Control Port Configuration for CentOS Installation (Cont.)

---

(Continued from previous page)

3. Set the static IP configuration for the Control Port.

**Note:** For CentOS software installation purposes, it is essential that you configure the Control Port. Thus, this step assumes only Control Port configuration. However, you may also specify configuration for the Feature Port at this time, if desired (otherwise, you can specify Feature Port configuration later via the Pro:Centric Direct Main Menu). For detailed information on port configuration, including Feature Port restrictions, and additional screen samples, see “Modify Network Settings” on pages 17 to 20.

- a) Select/highlight **Control Port** and press **Enter**.
- b) With the Edit Connection screen for the Control Port on display, add the appropriate IP address in the format `xxx.xxx.xxx.xxx/xx`, where the last two digits (after the forward slash) identify the network mask bits for the IP address.

Also, add the gateway, and DNS IP addresses in the format `xxx.xxx.xxx.xxx`.



**Note:** Do not modify any of the other fields in the Edit Connection screen. In particular, do NOT modify the data in the Profile Name and Device fields.

- c) When you are finished with the network configuration, select/highlight **<OK>** at the bottom right of the Edit Connection screen and press **Enter**.

**Note:** Review the configuration data carefully before you confirm the settings. Ensure each of the addresses was entered correctly.

- d) Select/highlight **<Quit>** at the bottom right of the port selection screen and press **Enter** to exit the TUI.

Next, the current time zone information for the server will be displayed on the screen, followed by a prompt:

```
Would you like to change the timezone on this host? (y/n)
```

4. This step is optional. You may also set the time zone later via the Pro:Centric Direct Main Menu. See “Set the Time Zone” on pages 22 to 23 for further information.

- If you would like to set the time zone now, type **y** and press **Enter**. Then, type the appropriate time zone in the specified format, and press **Enter**.
- To continue without setting the time zone right now, type **n** and press **Enter**.

Once the time zone step is complete, the operating system will automatically log out of the network user account and return to the `pcd login:` prompt. Press **<Ctrl> + <Alt> + <Del>** to return to the CentOS installation options screen, and resume the “Installing the Pro:Centric Software” procedure at step 5.



# Document Revision History / Open Source Software Notice

## Document Revision History

Date	Description
January 2017	Revision A: New document
January 2017	Revision B: Main Menu update
February 2017	Revision C: System diagram update
February 2018	Revision D: Updates in conjunction with PCD 2.0
July 2018	Revision E: Updates in conjunction with PCD 2.5
September 2018	Revision F: Trademark update
December 2018	Revision G: Updates in conjunction with PCD 3.0
July 2019	Revision H: Network Communication Port Protocol Reference added, OSS updates in conjunction with PCD 3.5
July 2019	Revision I: Server requirement updates
December 2019	Revision J: Updates in conjunction with PCD 4.0
February 2020	Revision K: Open Source Software Notice update
September 2020	Revision L: Updates in conjunction with PCD 4.5
December 2021	Revision M: CentOS, Feature Port configuration, and OSS updates
February 2022	Revision N: OSS updates
March 2022	Revision O: Server requirement and OSS updates
March 2022	Revision P: Server requirement update
June 2022	Revision Q: Server requirement and OSS updates

Product documentation is available online at: [www.lg.com/us/business](http://www.lg.com/us/business).

## Open Source Software Notice

<b>Product Type</b>	Pro:Centric Direct
<b>Model Number/Range</b>	Pro:Centric Direct

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## FTL

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2006-Jan-27

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to

protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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