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Equitrac PageControl Touch

Setup Guide

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Equitrac PageControl Touch Setup Guide

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Symbols Used In This Guide

The following symbols are used in the margins of this guide:

Note The accompanying text provides cross-reference links, tips, or general information that can add to your understanding of the topic.

Caution The accompanying text provides key information about a step or action that might produce unexpected results if not followed precisely.

Warning *Read the accompanying text carefully.* This text can help you avoid making errors that might negatively affect program behavior.

Contents

1 Overview 7

About PageControl Touch (PCT) 7

Hardware 8

Supported MFPs 8

Supported Card Readers 9

USB Card Readers 9

Requirements 9

PCT Software Features 10

Additional Functionality 12

Configuration Sets 13

Multi-Language Support 13

Upgrade Information 14

Additional Documentation 14

2 Installation and Configuration 15

Prerequisites: Before You Install 16

Physical Setup 16

Included Hardware 16

Powering Up PCT 17

Power 17

Initialization 17

Resetting the PCT to factory defaults 19

Web Administration 19

PCT Settings 20

Reset to Factory Defaults (hardware switch) 20

Installation Workflow 22

Quick Setup 23

Installing PCT firmware 24

Install firmware using the Equitrac Deployment Tool 24

Execution 25

Select Vendor 26

General 26

PCT Operations 26
USB Firmware Installation 27
Initial PCT Setup (At Device) 29
Server unavailable 32
Initial PCT Setup (Remote) 33
Web Administration 36
Determining the device IP 36
Determining device IP through System Manager 36
Determining device IP at the PCT device 37
Configuring the device via Web Administration 38
Networking and Security 39
Ping 39
IP Settings: 39
Ethernet 39
Server Address 40
Devices 40
Copy Control 40
USB Power 40
Locales 41
Current Date / Time 41
Time Zone 41
Support 41
Support Tools 41
Card Reader 42
Server Setup 42
Assigning and preliminary configuration of a PCT device 42
Configuring the device 43
Configuration sets 43
Containers 48

Workflows 49
PCT Settings **51**
Adding a Customized Logo **54**

3 User Workflows **55**

Logging Into PCT **56**
Proximity card login 57
Manual login 57
Keyboard language selection 59
Special characters 59
Auto card registration 60
Campus Card Login 62
If you have difficulty logging in 63
Entering Billing Codes **64**
Selecting Functions **66**
Follow-You Printing **67**
Release all **68**
Enable Copier **69**
Logging Out of PCT **70**
Using a USB Keyboard at the Device **71**

4 Troubleshooting **73**

Logging **74**
Logs through Web Administration 74
Logs through USB drive 75
Device Restart **76**
Card Reader **76**
Registered card not recognized 76
Device Start Up **76**

Appendix: Third-Party Software **79**

1 Overview

Topics

About PageControl Touch (PCT)

Hardware

PCT Software Features

Upgrade Information

Additional Documentation

About PageControl Touch (PCT)

PageControl Touch (PCT) provides copy control and secure printing on single-function and multi-function printers (MFPs). The PCT controls access to the MFP, requiring users to enter valid account information in the form of a supported authentication card, personal identification numbers (PINs), LDAP or Windows credentials, based on authentication settings on the Equitrac server, before the MFP is unlocked and ready for use.

PCT communicates with the print tracking and accounting application on your network to validate authentication information. Once successfully logged in, users can release print jobs, or use native device functions at the MFP. During the copy process, PCT can collect detailed document characteristics such as paper sizing, color, or duplexing, on specific models. PCT provides secure document release for print jobs, and works in concert with server features to capture print.

Hardware

The PCT features the following hardware:

- 7", 800x480 resistive touch screen.
- Dual ethernet ports, with Power over Ethernet (PoE) capability.
- 3 USB 2.0 ports.
- Integrated Speaker.
- Optional integrated contactless card reader.

Additional hardware:

- Multiple mounting options:
  - Reversible, 50mm VESA compatible mounting wedge for desk or wall mounting.
  - Optional 42" floor stand including 75mm VESA bracket available from Nuance. Please contact your sales representative for information.
  - Optional keyboard arm and tray available from Nuance. Please contact your sales representative for information.
  - Cable management options.
- 1.8 meter (6 foot) power cable/adapter, with 24 VDC 1.25A Supply, 100-240 VAC 50-60 Hz Input, and international connectors.
- Support for optional USB external Equitrac Card Readers and keyboards.

Supported MFPs

PCT supports any MFP that has a foreign interface adapter. Please consult your sales representative to acquire a cable that is compatible with your MFP.

Supported Card Readers

PCT supports Equitrac USB external card readers. Depending upon the model, PCT may contain an internal multiformat card reader. This card reader supports a multitude of formats, but may require custom configuration to work in your environment. Please consult your service or sales representative for details about configuring the internal reader.

USB Card Readers

Equitrac USB card readers are typically automatically detected by the device upon startup. However, some specific installation scenarios require customization of the internal or external Equitrac card reader in order to recognize particular card types. Such customization is outside the scope of this document.

Requirements

PCT must be used in conjunction with *Equitrac Office/Express* versions 5.4 (including all hotfixes), and higher.

System requirements for any machine hosting Equitrac server components (Core Accounting Server, Device Control Engine) are available in the *Equitrac Office or Equitrac Express Installation Guide*.

PCT Software Features

The Welcome screen acts as a starting point for users when they approach a PCT:

By default, the main screen displays a welcome message instructing users how to log in to the device. If the device has a built-in card reader or has an external card reader attached, an animated graphic also displays, showing how the included reader is used. The screen includes the following elements:

- **Online Indicator** - This bar at the top left of the display indicates the communication status of the PCT to a configured DCE. The bar is green when connected, and red when disconnected.
- **Editable Logo** - This space is provided for any custom logo that you would like to use on the PCT to identify your enterprise.
- **Settings** - This button allows users to view and change some PCT settings at the device. Users with Administrative access can view and change more options.
- **Information Bar** - This area displays any errors or notes relevant to the PCT's use and function.

NOTE: The welcome screen is optional. You can configure PCT to not display a welcome screen.

If the Welcome screen is disabled in the configuration, one of the following screens may display, depending on how the user logs in. If a user logs in by presenting his or her card, the device moves directly into the **Launcher** screen configured for that device, or if billing codes are required, to the **Billing** screen. If the user touches the screen, or no card presentment functionality is available, the device then displays the **Login** screen:

Depending upon the setup, the user can then use an attached keyboard or virtual on screen keyboard to enter their login credentials. The credentials may include only a User ID or User ID and Password configured at the Equitrac server. Once authenticated, the user sees the main Launcher or Billing screen display.

The main **Launcher** screen of PCT unlocks the various functions users can access at the MFP device, and showcases the various areas of the PCT user interface:

- **Online Indicator** - This bar at the top left of the display indicates the online status of the PCT. The bar is green when connected, and red when disconnected.
- **User Information** - Optionally displays the logged in user's information including name, account balance and information about how the activity in the session is billed.
- **Editable Logo** - This space is provided for any custom logo that you would like to use on the PCT to identify your enterprise.
- **Workflow Options** - The largest space on the screen displays any currently active options. Depending upon where a user is in the workflow, this space can display device options, search results, copy and print options, and settings among others.
- **Action Options** - This bar contains buttons relevant to the current place in the workflow. Use them to navigate through the various workflows.
- **Information Bar** - This area displays any errors or notes relevant to the PCT's use and function.

Additional Functionality

PCT provides additional functionality beyond print and copy control. The following features are supported:

- **Authentication** - Requires users to enter valid authentication information to unlock the MFP, and to release secured print jobs via Follow-You Printing or Release All Documents. Users can enter their authentication data via the PCT panel, or by using a valid authentication card (when authentication cards are implemented).
- **Follow-You Printing®** - After successful authentication, the user can access the virtual print queue to "pull" a print job to this device. This functionality is fully compatible with Equitrac's I-Queue print technology. Through the PCT Follow-You screen, users can view documents in the queue, then select, delete, or release

documents for printing. See **Follow-You Printing** on page 67 for end-user instructions.

- **Card self-registration** - Allows users to associate an unassigned card with their user credentials. Once associated, each time the user presents the card, the system automatically recognizes the card and associated user. For more information about Card self-registration, see the *Equitrac Office or Equitrac Express Administration Guide*.
- **Billing Code support** - Users can assign their jobs to a particular code, and the *Equitrac Office/Express* database tracks the characteristics of jobs assigned to the code. Billing codes must be enabled on the Equitrac server. Refer to the *Creating & Managing Accounts* chapter in the *Equitrac Office or Equitrac Express Administration Guide*.
- **Campus card support** - PCT authentication is integrated with your Blackboard UNIX, Blackboard Windows, and CBord Retail Transaction Interface. Users associated with Campus Cards can make copies, release jobs, and pay for these services in real time, directly from their campus card account. See the *Managing Devices* chapter in the *Equitrac Express Administration Guide*.
- **Offline operation** - In the event that PCT fails to connect to the Equitrac DCE service, you can configure it to continue the MFP lockdown, allowing users to authenticate based on account information stored in the local PCT cache. PCT gathers job data in local cache, and forwards the accounting details to the DCE service when it is back online. For more information about Offline operation, see the *Equitrac Office or Equitrac Express Administration Guide*.
- **Remote Install & Configuration** - All installation and configuration tasks can be accomplished easily to configure PCT. See **Web Administration** on page 36 and **Server Setup** on page 42.
- **USB keyboard support** - Users can navigate the PCT touch screens via a keyboard attached to the USB port of the device. Typically, any USB keyboard will function. The officially supported model available from Nuance is part number CTRK-EKB.

Configuration Sets

The term "Configuration Set" is used throughout this document to describe a collection of settings that can be applied to a PCT device. The nature of the software is such that configuration sets can nest within other configuration sets. For example, the Welcome Screen configuration set, which among other things determines what appears on PCT when a user approaches the device, can be a part of the overall configuration set applied to a PCT. While reading through this document, note the context in which the term is used, and infer from that which configuration set is being discussed.

Multi-Language Support

PCT installation program and configuration features are available in English only.

Multi-language support for PCT includes the languages listed below for the user interface. If the MFP language is not available, English is used by default.

In order to change the keyboard language on PCT, follow the instructions outlined in **Keyboard language selection** on page 59.

- English
- German
- Brazilian/Portuguese

- French
- Italian
- Spanish

NOTE: The deployment tool is available only in English.

Upgrade Information

An update of the device firmware is required before use. For instructions pertaining to firmware updates, see **Install firmware using the Equitrac Deployment Tool** on page 24.

NOTE: Equitrac Office/Express is a *software* product that is installed on servers; PCT then interfaces with these servers. The term *firmware* refers to the PCT system firmware and not to the Equitrac software.

Additional Documentation

You may need to refer to one of the following documents when performing server-side configuration tasks. These documents are provided with your Equitrac product software, and are installed automatically with any server-side component in the `Program Files\Equitrac\Office` or `Program Files\Equitrac\Express\Docs` folder.

Guide	When to refer to this guide
Equitrac Office /Express Planning Guide	Before installing Equitrac Office or Express, use this guide to select the appropriate combination of product variables to support the needs of your institution or organization.
Equitrac Office/Express Installation Guide	Use this guide to perform an initial installation or upgrade.
Equitrac Office/Express Administration Guide	After installing Equitrac Office or Express, use this guide to configure advanced options for use on your campus or in your organization.

2 Installation and Configuration

Topics

Prerequisites: Before You Install

Physical Setup

Powering Up PCT

Resetting the PCT to factory defaults

Installation Workflow

Quick Setup

Installing PCT firmware

Initial PCT Setup (At Device)

Initial PCT Setup (Remote)

Web Administration

Server Setup

PCT Settings

Adding a Customized Logo

This chapter describes how to install the PageControl Touch 1.0 firmware on a PageControl Touch (PCT) device and configure it for initial startup. In addition to this guide, ensure that you have any documentation related to your Equitrac product suite and documentation for your MFP.

NOTE: This guide assumes you have a working Equitrac server. The Equitrac software must be installed, licensed and online.

Prerequisites: Before You Install

You must have administrative access (including valid Windows network credentials with assigned administrative rights) to both the MFP and to the network computer hosting the Equitrac server components to install and configure PCT. Administrative access to the MFP is required to ensure the copy control interface is correctly secured. Consult your copier technician for information if you are unsure how to do this.

Before you begin the installation:

- Install or update, license, and configure Equitrac Office/Express 5.4 or higher before installing the PCT. For more information, see your Equitrac Office/Express documentation.
- Ensure that the Equitrac Office/Express hotfixes are installed on the server.
- Ensure you download and install the most recent PCT firmware files from the Equitrac Partner Portal.
- Ensure that the TCP/IP configuration for the PCT device is appropriate for your environment. By default, PCT is configured by DHCP, however you may configure static addresses as well.
- Ensure you know the IP addresses of all relevant DCE servers in your environment, and that these servers are able to communicate over the network with the PCT.
- Ensure you have the foreign interface cable that is appropriate for your device from Equitrac. This cable is the main interface between the PCT and the MFP, and must be present to control the MFP. Please consult your sales representative and/or copier vendor for information about acquiring and configuring the cable to the device.

Physical Setup

Before you begin, unpack the PCT from its box and set it up where it will be used, connecting it to the MFP in question.

Included Hardware

The box for the PCT should contain:

- PageControl Touch device
- Power adapter with interchangeable blades - US, Europe, UK, Australia, China
- Wedge bracket/wall mount
- 3.3 meter (10 foot) network cable
- 3 tie wraps
- Documentation

Powering Up PCT

Note the following power and initialization information when powering up a PCT for the first time, or if it is reset to factory defaults.

Power

PCT receives its power either through the included power adapter, or through Power over Ethernet (PoE) using the Ethernet cable attached to the device. You can connect both power sources to PCT, but only one is used for power, and the power supply is always given preference when present. Note the following:

- PCT has two Ethernet ports. Either will work for PoE.
- Disabling of PoE in your network when using the power adapter is not necessary. The device automatically favors D/C power when both are present.
- When using PoE, some power restrictions apply. See **USB Power** on page 40 for more information.
- If PCT has both power sources available, and the power adapter becomes unavailable, the device will reboot to facilitate a change in power source.

Initialization

Once PCT is powered, it follows an initial internal setup procedure. This procedure takes some time, and while it completes, the device displays various screens. The first screen may take up to 15 seconds to appear after turning the device on:

- The screen flashes.
- PCT checks the integrity of the file system.

- PCT displays the initialization status.

- PCT displays the Nuance logo and a bootup animation.

- PCT Initializes various settings.
- PCT then requires initial setup. See **Initial PCT Setup (At Device)** on page 29.

Resetting the PCT to factory defaults

Resetting the device returns the PCT to its factory default settings, effectively returning it to its initial state. There are three ways to accomplish this:

1 Remotely from Web Administration.

2 From the PCT settings menu.

3 From the PCT, using the Reset to Factory Defaults switch.

CAUTION: IP settings, PCT device hostname, and server hostname are cleared upon device reset. Resetting the PCT to factory defaults using the Reset to Factory Defaults switch requires someone to be at the device during the operation. Recalibration of the touch screen is a requirement of the initial setup, and can only be accomplished at the device.

NOTE: If you reset from Web Administration or from the PCT settings menu, your preset default language, timezone, and time are retained, and the PCT device does not automatically update the firmware.

Web Administration

1 Login to **Web Administration** using administrator credentials. Until the PCT is associated with a server's configuration set and the set is modified, the administrator credentials are user name *admin* and password *equitrac*.

2 Navigate to **Support** > **Support Tools**. The Support Tools screen displays:

3 Under **Support Tools**, click **OK** next to **Reset to Factory Defaults**.

PCT Settings

1 At the PCT, navigate to **Settings** > **Admin Authentication**.

2 Log in with administrator credentials.

3 Select **Support Tools**. The **Support Tools** screen displays:

4 Use the arrow button to scroll the screen down.

5 Select **OK** next to **Reset to Factory Defaults**.

Reset to Factory Defaults (hardware switch)

1 Disconnect PCT from its power source (AC or POE).

NOTE: You can also power down the PCT using the power switch for a reset to Factory Defaults. This avoids having to remove the back cover and disconnect. Press the Power Switch for more than five seconds to power the PCT device down.

2 Access the rear of the device, and locate the **Reset to Factory Defaults Switch**. The switch is hidden behind a small opening in the enclosure, underneath the main power switch:

3 Insert a paper clip or pin into the opening to press the switch. Apply continual pressure; do not allow it to disengage.

4 Reconnect the power source to PCT.

NOTE: You can also use the power switch to turn the device on while holding the reset switch. Press the power switch for more than five seconds to turn the PCT device on.

5 Continue to hold down the Reset to Factory Defaults switch for approximately 30 seconds, or until you see PCT display the message, "Restoring to Factory Defaults". Upon reboot, the PCT device attempts to acquire a DHCP address.

6 Release the switch. PCT displays a message asking you to recalibrate the touch screen.

7 Touch the screen where indicated by the cross-hair to recalibrate the device.

After recalibration, PCT enters Recovery Mode, and requires time to acquire a DHCP address (if possible), and become accessible through static IP address 192.168.3.1. PCT then waits for new firmware. This process may require from 5 up to 15 minutes to complete, depending upon if a firmware reinstall is performed.

When PCT finishes installing the firmware, or if it times out, it automatically restarts.

Installation Workflow

To install and configure PCT, and to configure server components, you must have administrative access to the network machine hosting the Equitrac services, and to the PCT. Default administrative credentials for the MFP are provided by your MFP technician.

NOTE: If the DCE server is not accessible during an initial setup, the PCT device must be restarted when the server becomes available. Once the server is reachable by the PCT device, it connects to the server upon being restarted. If the server remains offline, the PCT device returns to the Initial Setup language selection screen. It can be restarted from there until the server is located.

Follow this workflow to install PCT per device:

1 Download the most recent PCT firmware from the Equitrac Partner Portal. The firmware required is delivered in three separate .zip files:

- Application
- Kernel
- Copy Control board

2 Power up the PCT and follow the steps through the initial setup wizard to set up the PCT. See **Initial PCT Setup (At Device)** on page 29.

3 If firmware upgrades are necessary, complete the steps as outlined in **Quick Setup** on page 23. If you do not know the PCT IP address, use the "Discover" feature of the EQDeployment tool to determine it.

NOTE: IP Settings must be configured during Initial Setup. Once configured, you must restart the PCT device when prompted after setting the device IP information. Doing so then saves the Initial Setup information.

4 Complete the configuration of the PCT. This can be done at the device as described under **Initial PCT Setup (At Device)** on page 29, or remotely as described under **Initial PCT Setup (Remote)** on page 33.

5 Restart the PCT device if the server hostname was not configured in when the initial setup wizard was run. Doing so ensures the PCT device connects with the server. If the server was online when configuring the PCT device, server communication is already established, and you can skip this step.

NOTE: Once the installation is complete, the PCT device appears in the **Devices** pane of System Manager as an unassigned device. You can then assign it to MFP devices on the system.

Quick Setup

Under certain conditions, you can use a more streamlined procedure for setting up a PCT device. This procedure can stand in for the typical installation workflow, provided the following is true:

- The PCT must be connected to a network with available DHCP services, so that it can acquire an address.
- You must have a means to discover the IP address acquired by the PCT, for example the EQDeployment tool Discover feature.
- You must have a workstation that is attached to the same network as the PCT device, which has the EQDeployment tool and a web browser to use the Web Administration tool.

NOTE: The EQDeployment tool's Discovery feature is a good way to discover the IP address of the PCT device in question.

This procedure and variations of it are applicable to offsite (pre)setup of the PCT device, setup by remote support personnel, or setting up multiple devices in a single sitting.

1. Power up the PCT device, and allow it to acquire a DHCP IP address, and enable remote access. This requires approximately 1 minute after the Initial Setup language selection screen appears.
2. Perform a firmware update to the latest version by following the process described under **Install firmware using the Equitrac Deployment Tool** on page 24, or **USB Firmware Installation** on page 27.
3. Perform setup of the PCT device using the Web administration tool as described in **Initial PCT Setup (Remote)** on page 33.

Installing PCT firmware

Each PCT ships with the most recent firmware at the time of its manufacture. However, in order to ensure you are running the most recent firmware, you must perform a firmware upgrade. The firmware upgrade can be accomplished remotely over a network connection using the Equitrac Deployment tool, or by USB drive if the PCT is not connected to a network.

Install firmware using the Equitrac Deployment Tool

Performing a firmware update over a network has the following requirements:

- The workstation must be network-connected.
- The workstation must be running a 64-bit Windows platform.
- The workstation must have Java version 7 installed.
- You must log in with Administrator privileges.
- To acquire the necessary software, you need access to Equitrac's Partner Portal.

Do the following:

1. Open a browser and navigate to the Equitrac Partner Portal site (https://partners.equitrac.com/)
2. Login to the site and navigate to **Tech Support > Software Downloads > PageControl Touch**. Download the current EQ Deployment Tool (`EQ_Deployment_x_x_x.zip`) to your local machine and note its location.
3. Navigate to the directory where you have saved the deployment tool. Unzip its contents.

4 Launch the deployment tool batch file (`EQDeployment.jar`, or `EQDeployment.bat`):

The deployment tool screen is split into various sections:

Execution

The **Execution** section, located at the bottom of the application window, is used to proceed with a firmware upgrade, or to load or save an existing set of upgrade variables. If a set of variables have already been set up and saved, they can be loaded and executed without further configuration. The options in this section are:

- **Save** - Saves the current variable settings. This option is unavailable if the variables have never been used before.
- **Save As** - Saves the current variable settings to a new settings file. You are asked to provide a name and file location for the settings file.
- **Load** - Load an existing variable settings file. Navigate to the file location you want to load, select it, and click **Open**. The settings load into the application.
- **Execute** - Proceeds with the currently loaded upgrade variable settings.

- >> - Click the >> button to resize the left pane of the application. This allows for more space in the application window to enter configuration values, at the expense of log information. The button switches to << to return the application panes to default values.

Select Vendor

From the **Select Vendor** drop-down list, choose **pct**.

General

Use this area to indicate which PCTs will receive the installation.

1 Click **Add to** add a new PCT device. An **Add device(s)** dialog opens:

In the **Device(s)** field, input the IP address(es) or device name(s) of the PCTs receiving updates. You can input multiple PCTs by separating each IP address or name with a comma, allowing for a bulk installation. You can also click **Browse** to open a file browser and navigate to a `.csv` file containing device information. Click **Add**. The terminals added appear in addition to any devices already listed in the **Device List** area.

NOTE: One way to determine the IP addresses by checking the device list in System Manager, and displaying the device's **PageControl Touch terminal summary** dialog.

—Or—

2 Click **Discover...** to add a new PCT device through network discovery. A **Discover Devices** dialog opens. Your Network IP address is automatically populated:

Click **OK**. The network is scanned for existing PCT devices and their IP address(es) are populated into the **Device Hosts** field.

3 Set the **Max Parallel Execution** slider to the value best suited for your upgrade. This slider governs how many simultaneous upgrades occur. The higher the number, the more network and process intensive the load to the system. The number to the left of the slider indicated the amount between 1 and 50.

PCT Operations

1 Select the **Get Version Information** check box to return the current PCT firmware information. Note that you must provide an **Admin Username** and **Password** as per Step 4. Until the PCT is associated with a server's configuration set and the set is modified, these values are **admin** and **equitrac**.

2 Check the **Install** box to run a firmware upgrade on the PCT(s) indicated in the **Device Hosts** list. Selecting this box enables the other fields in the PCT Operations area.

3 Click **Add...** An explorer window opens allowing you to add the packages you must install. Select each one, and then click **OK**. Do this for each file. The **Install Packages** field displays the three packages to install to the PCT(s). These are:

- Application (pct-app-xxx.pct) - this is the software that controls the PCT
- Kernel (pct-os-xxx.pct) - this is the operating system for the PCT
- Copy control board (pct-ccb-xxx.pct) - this is the software that manages the copy control cable to the MFP.
- Card reader (xxx.bec) - these are the card reader configuration files. They can have any file name, but must include a `.bec` extension.

4 Ensure the **Verify** check box is **selected** to compare the Application, Kernel, and Copy Control Board versions that are installed to the package information to ensure they match.

5 If you have a configuration file available for your card reader and want to install the settings, check the **Card Reader** box to run the configuration file on the PCT(s) indicated in the **Device Hosts** list.

6 Click **Select...** An explorer window opens allowing you to add the configuration file(s) to install. Select each one, and then click **OK**.

NOTE: Typically, cards function without specific software configuration. Under normal circumstances, steps 4 and 6 can be skipped.

7 Enter the **Admin Username** and **Admin Password**. Until the PCT is associated with a server's configuration set and the set is modified, these values are **admin** and **equitrac**.

NOTE: When entering variables, it is useful to click the **>>** button in the **Execution** group box at the bottom of the application. This enlarges the **Config File** field, making it easier to work with.

8 Click **Execute** to perform the firmware update with the provided settings. You can also **Save** these settings for later use. The **Device List** and **Output** sections display a running account of the installation process.

USB Firmware Installation

It is possible to upgrade the firmware of a PCT without using the Deployment Tool. In cases where network connectivity is unavailable, device firmware can be updated using a USB key drive.

NOTE: This process requires you to be at the PCT.

Before you begin, ensure you have the following:

- A USB key drive, formatted to FAT32, with sufficient free space to load the PCT firmware files.
- All of the required install packages as outlined on page 27, step 3.

Follow this process:

1 Prepare the USB drive:

a Create a folder on the root directory of the USB key drive titled `eq-pct-firmware`.

b Copy the install package files into the folder.

c Proceed to the PCT that will receive the installation.

2 Disconnect power from the PCT. Depending upon your setup, this involves disconnecting the power supply, the Ethernet cable, or both.

NOTE: You can also power down and power up the PCT using the power switch. This avoids having to remove the back cover and disconnect. Press the Power Switch for more than five seconds to power the PCT device down or up.

3 Insert the USB drive into the side port of the PCT.

NOTE: You must use the side port. Neither of the rear USB ports will function.

4 Follow the steps as outlined in **Reset to Factory Defaults (hardware switch)** on page 20, starting with step 2. This process may take up to 15 minutes to complete.

Initial PCT Setup (At Device)

After PCT completes its power up from factory defaults, the following setup steps are necessary. Typically, these steps are performed at the device itself, but can also be done remotely via the Web Admin Tool. For instructions on how to do this, see **Initial PCT Setup (Remote)** on page 33.

All selections are made by either touching the screen to select the value, or using an attached keyboard if available to navigate the menus and select the value.

1 Select from the list of available languages:

2 Select the language you want to use, then click **Next**. The **Choose Time Zone** screen displays:

3 From the top drop-down menu, select the continent you would like to use. The area below the drop-down then populates with options from this area. Use the up and down arrows to scroll the list until you see the location nearest to of PCT. Select that location.

4 Click **Back** to return to the previous screen, **Reset to Defaults** to restore all PCT default settings, or **Next** to continue. The **Current Date/Time** screen displays:

5 Use the + and - buttons to alter the date and time if required. To change the clock to 24 hour display, select the 24hr clock check box. Click **Back** to return to the previous screen, or **Next** to continue. The **Network Configuration** screen displays:

NOTE: If you make any network configuration changes on this screen, the PCT device automatically restarts when you select **Next**, saving all settings to this point. When the device restarts, you must step through the workflow to this point again.

6 From the IP Method drop-down, select either **DHCP** or **Static**. If you choose **Static**, set the networking configuration that is appropriate for your environment.

7 In the **Hostname** field, provide an appropriate name for this PCT and domain. Doing this also ensures that the settings up to this point are saved by the PCT device.

8 Click **Next**. The Server Hostname screen displays.

9 Designate a fully qualified Server Hostname and optional secondary Server Hostname. There are two options for providing hostnames:

- By default, PCT scans its configured subnet for other PCT devices that are already configured with valid server(s). If a configured PCT device is found, a message displays providing information about the found device, and asks if you would like to use the same settings:

- Select **Yes** to allow PCT to auto-populate the field with the discovered setting.

—Or—

- Select **No** to decline, and then provide your own setting by typing it in to the **Enter Server Hostname** field. To designate a secondary server, provide two fully qualified server hostnames, a primary and secondary, delineated with a comma.

NOTE: If you do not make a selection, PCT accepts the discovered settings after a short time. There must be at least one properly configured PCT on the same subnet for discovery to function. If the server name you provide exists, but is offline, see **Server unavailable** on page 32.

10 Click **Connect**. The PCT configures itself and displays the **Welcome** screen when complete. The PCT is now ready for use.

Server unavailable

The PCT device attempts to reach the server configured in step of the initial setup procedure. If the server is not available, the following additional steps are required:

1 Upon failure to connect to the server, a dialog box displays asking if the settings should be saved regardless:

2 If you reply **Yes** the PCT device returns to the first Initial Setup language selection screen.

3 If you reply No, you are returned to the Server Hostname screen, where you can attempt a different server name.

NOTE: The PCT device does not automatically retry the server connection. To do this, the PCT device must be restarted when the server is brought online, either locally using the Power Switch or remotely through the Web Administration or EQDeployment tool.

Initial PCT Setup (Remote)

After PCT completes its power up from factory defaults, the you can use the Web admin tool to set up the PCT device.

NOTE: Other functions of Web Admin are discussed under **Web Administration** on page 36.

1 Open a web browser and enter the following into the URL bar: `https://x.x.x.x:8443` where `x.x.x.x` is the IP address of the PCT to configure. The **PageControl Touch** Web Admin screen opens.

2 Click the **Log in** button. A **Log in** dialog box opens. Enter your administrator **name** and **password**. Until the PCT is associated with a server's configuration set and the set is modified, these values are **admin** and **equitrac**.

3 Click **Go**. This unlocks all the options in the left pane of the window:

4 Set the Time Zone:

a From the left pane, select **Locale** > **Time zone**. The **Time Zone** settings display in the right pane.

b From the **Continent** drop-down, select the appropriate continent corresponding to your location.

c From the **Time Zone** drop down, select the appropriate Time Zone corresponding to your time zone.

d Click **Save**.

5 Set the Time:

a From the left pane, select **Locale** > **Current Date/Time**. The **Current Date/Time** settings display in the right pane.

NOTE: You can set the time of the PCT device to be the same as that of a configured network time server, if available. Click **OK** next to **Synchronize Time with Server**. You can then skip the remaining settings for this step.

b For the **Date**, use the appropriate drop-down lists to set the current Day, Month, and Year.

c For the **Time**, Use the appropriate drop-down lists to set the current Hour and Minute, then designate either AM or PM.

d To use 24 hour clock time, ensure the **24h clock** check box is **selected**.

e Click **Save**.

6 Set the Server Address:

a Click **Reset to Defaults** to repopulate the server fields with default values.

b From the left pane, select **Networking and Security** > **Server Address**. The **Server Address** settings display in the right pane.

c In the **Primary Server Address** field, enter the fully qualified host name or IP address of the server you want to use. Click **Test Connection** to ensure the server is available and connected to the PCT device. Either a green check mark or orange exclamation point displays next to the button to indicate if the test passed or failed, respectively.

d In the **Secondary Server Address** field, you can optionally enter the fully qualified host name or IP address of a server to use as a backup, should the primary server become unavailable. Click **Test Connection** to ensure the server is available and connected to the PCT device. Either a green check mark or orange exclamation point displays next to the button to indicate if the test passed or failed, respectively.

e Click **Save**.

7 Set the IP Settings:

NOTE: If you make any network configuration changes on this screen, the PCT device automatically restarts when you select **Next**, saving all settings to this point. For this reason it is important to perform this step last in the setup workflow. When the device restarts, all settings should be populated, and you can continue.

a Click **Reset to Defaults** to repopulate the server fields with default values.

b From the left pane, select **Networking and Security** > **IP Settings**. The **IPv4 Configuration** settings display in the right pane.

c From the **IP Method** drop-down, select either **DHCP** or **Static**. If you choose **Static**, set the networking configuration that is appropriate for your environment.

d In the **Hostname** field, provide an appropriate name for this PCT and domain. Doing this assures that the settings for the device are retained.

e Click **Save**. This will restart the PCT device.

NOTE: If the server cannot be reached by the PCT device, upon startup the PCT returns to the first Initial Setup Language selection screen. Following this, the PCT device does not automatically retry the server connection. To retry the connection when you think the server is reachable, the PCT must be restarted, either using the Power Switch or remotely through the Web Administration or EQDeployment tool.

8 Restart the PCT device (this step is only necessary if the IP address was preset, or if the server is unreachable):

   a From the left pane, select **Support > Support Tools**. The **Trace Logging / Tools** settings display in the right pane.

   b Next to **Restart System**, click **OK**.

   c When prompted for restart, click **OK**. The PCT device restarts, and the changes are implemented.

Web Administration

Once the PCT has the latest firmware installed, you can access it via its web application to configure various settings. Web administration typically works with any modern browser; PCT officially supports Internet Explorer.

Please note that whenever a configuration set associated with a particular PCT device is modified, if the PCT's login credentials have not been altered from the default, you are required to change the credentials from the default. You cannot re-use the default credentials (*admin/equitrac)*.

When you change the administrator credentials, the system needs time to propagate the change. You can force the system to acknowledge the new credentials in the following ways:

- Rebooting the PCT device.

—Or—

1 Logging out of the admin session.

2 Log in using a regular (non-administrative) user.

3 Log out the regular user.

4 Log back in with the new Admin credentials.

Determining the device IP

There are two ways you can determine he IP address of a particular PCT:

1 Through System Manager

2 At the PCT device

3 Using the "Discover..." feature in the Deployment Tool (see **Install firmware using the Equitrac Deployment Tool** on page 24)

4 During setup at the device (see **Initial PCT Setup (At Device)** step 8).

Determining device IP through System Manager

1 Navigate to **System Manger** > **Devices**.

2 Locate the PCT device listed beneath the MFP to which it is assigned, or, if unassigned, locate it in the Unassigned PageControl Touch terminals section at the bottom of the list of devices.

3 Click the link associated with the PageControl Touch device. Its **PageControl Touch terminal summary** dialog opens:

4 Note the **Hostname/IP address** of the device.

Determining device IP at the PCT device

1 At the PCT device, select the **Settings** button on the home screen.

2 The **Settings** screen typically lists the IP address of this PCT:

Configuring the device via Web Administration

1 Open a web browser and enter the following into the URL bar: `https://x.x.x.x:8443` where `x.x.x.x` is the IP address of the PCT to configure. The **PageControl Touch** Web Admin screen opens:

2 Click the **Log in** button. A **Log in** dialog box opens. Enter your administrator **name** and **password**. Until the PCT is associated with a server's configuration set and the set is modified, these values are **admin** and **equitrac**.

3 Click **Go**. This unlocks all the options in the left pane of the window:

NOTE: The **Status** section of the options menu does not allow for any configuration. Rather, it provides information about the current PCT setup. The **Networking** option displays information about the PCT's connection to the network, such as its IP address and MAC address. The **Statistics** option displays information about the system, transactions, and disk space usage of the device.

Networking and Security

Ping

1 Enter a **fully qualified domain name** or **IP address** to check the device's connection to the network.

2 Click **Ping** to display the results of the test in the field below.

IP Settings:

1 Select an **IP Method** from the drop-down list. By default, the selection is set to **DHCP**. Modify the **Hostname** field as appropriate for your settings.

2 **Save** your settings or **Reset to Defaults**.

NOTE: You can opt to select **Static IP** address from the drop-down list. Set the values as appropriate for your environment.

Ethernet

The settings under Ethernet allow you to force network crossover and speed modes in situations where the PCT hardware does not automatically configure to your network.

NOTE: Both the **Ethernet MFP/Printer Port** and **Ethernet Network Access Port** settings follow the same rules outlined below.

CAUTION: The following settings are for advanced configuration only. Do not modify these settings without consulting your network administrator about the appropriate values for your specific environment.

1 Use the **Link Partner Crossover Mode** drop-down list to set the mode:

- Select **Auto Crossover** to allow the system to determine if a straight through or crossover Ethernet cable in is use, and then auto-selecting the appropriate Ethernet configuration (default).
- Select **MDI (device) mode** when using a straight through Ethernet cable.
- Select **MDI-X (Uplink) mode** when using a crossover Ethernet cable.

2 Use the **Speed negotiation mode** drop-down list to set the mode:

- Select **Auto speed negotiation** to allow the system to configure itself (default).

- Select one of **100 Mbps full duplex**, **100 Mbps half duplex**, 1**0 Mbps full duplex** or **10 Mbps half duplex** to set the correct network speed.

Server Address

The settings under **Server Address** allow you to modify the server used by the PCT.

1. In the **Primary Server Address** field, enter the IP address or fully qualified domain name of the server you want to use, then click **Test Connection**. An icon displays indicating the connection status (check mark or exclamation point).
2. In the **Secondary Server Address** field, enter the IP address or fully qualified domain name of the server you want to use as a backup, then click **Test Connection**. An icon displays indicating the connection status (check mark or exclamation point). This setting is optional.
3. Click **Save**, or **Reset to Defaults**.

Devices

Copy Control

Select the **Enable Hardware Bypass** check box to allow unrestricted access to the MFP in instances when users cannot properly use the Equitrac software. This bypasses all functions of the PCT.

CAUTION: All other settings under **Copy Control** should only be modified under the guidance of an Equitrac technical support specialist. Please contact Equitrac for information about these settings.

USB Power

The settings under USB Power allow you to select whether the PCT provides power through its USB ports. This page also indicates if the PCT is powered over Ethernet, or the provided wall adapter power source.

Some conditions apply:

- To use all USB ports, PCT must be drawing power from the power adapter.
- For security reasons, you can choose not to enable power to USB, even when powered through the wall adapter power source.
- When using Power over Ethernet, PCT is restricted in how many USB ports it can offer for use. For example, if PCT has an internal USB reader, the rear ports will not be available. If no internal reader is present, one of the two rear ports can be enabled.
- The USB port on the side of PCT is always enabled.
- If adapter power is lost while PoE power remains available, the unit will reboot with the PoE power restrictions applied. Upon restoration of adapter power, power flow to all enabled USB ports is resumed.

NOTE: If PCT is drawing power from the Ethernet, some menu settings will not be available. The availability of these settings depends upon the power source.

1. Select the check box for each respective USB port to allow it to provide power to connected peripherals.
2. Click **Save**, or **Reset to Defaults**.

Locales

Current Date / Time

The settings under Current Date / Time allow you to modify the time and date on the PCT.

1 Use the drop-down lists in the **Date** row to alter the date.

2 Use the drop-down lists in the **Time** row to alter the time.

3 Select the **24hr clock** check box to display a 24 hour readout for the clock, rather than AM/PM indicators.

4 To resynchronize the PCT's time setting, click the **Synchronize Time with Server** button. This feature uses a network time server, if available.

5 Click **Save**, or **Reset to Defaults**.

Time Zone

The settings under Time Zone allow you to modify the geographic time zone based upon city and country. Typically, the PCT automatically populates these fields from the Server. You can manually change them here.

1 Use the drop-down lists in the **Continent** row, to alter the geographic global area.

2 Use the drop-down lists in the **Time Zone** row to select the city closest to the time zone you want to use.

3 Click **Save**, or **Reset to Defaults**.

Support

Support Tools

The options on the **Support Tools** screen allow you to perform some basic remote PCT maintenance and troubleshooting. Use these tools in association with an Equitrac Technical support specialist.

1 Select the **Enable Trace Logging** check box to keep log files for this PCT in its native memory.

2 In the **Download Log Files** row, click **OK** to save a local copy of the PCT log files for troubleshooting purposes.

3 In the **Delete Log Files** row, click **OK** to clear all logs currently saved on the PCT.

4 In the **Launch Remote Viewer** row, click **OK** to display the screen of the PCT on the local machine. This is useful if you want to control the PCT remotely.

NOTE: The remote viewer requires Java 7 runtime or higher to run. You may be asked for security clearances.

5 In the **Restart System** row, click **OK** to re-initialize the PCT.

6 In the **Shutdown** row, click **OK** to turn off the PCT.

7 In the **Reboot into Recovery Mode** row, click **OK** to shut down the PCT and restart it in a state that is ready to accept upgrades.

8 In the **Reset to Factory Defaults** row, click **OK** to return the PCT to its factory settings. This removes any customer-specific data from the device.

NOTE: Returning a PCT to its factory settings requires you to reconfigure the device upon next use.

9 In the **Ping** row, enter the IP address or fully qualified domain name of any device on the network and click **Ping** to test its connection.

Card Reader

The Card Reader screen allows you to see information about the connected or included card reader (if any) and to update the card reader's firmware.

1 Under **Card Reader Info**, note the information about the card reader detected within or attached to the PCT device (if any). This information may take a moment to display as the device queries the hardware.

2 Under **Upload Card Reader Configuration**, update the card reader firmware:

a Beside **Select Configuration File**, click **Choose File**. A Windows file dialog displays.

b Navigate to the card reader configuration file. This file is provided by the manufacturer of the card, and has the extension `.bec`.

c Select the file, and click **Open**.

d Click **Upload** to update the firmware.

Server Setup

This section deals with configuration that is specific to the PCT device. For more information about server setup options, see the *Equitrac Express Administration Guide*.

Assigning and preliminary configuration of a PCT device

Once a PCT has communicated with a server for the first time, it automatically appears under the server's list of unassigned PageControl Touch terminals in System Manager. From here, you can assign the PCT device to an MFP, and perform preliminary configuration of the PCT device:

1 In **System Manager**, click **Devices** in the left pane.

2 In the right pane, locate the PCT device you want to configure from the list of unassigned PCT devices. PCTs are listed by their serial numbers.

NOTE: One way to determine the serial number of a PCT is to navigate to **Settings > Admin Authentication > Status > Serial Number** from the PCT device. You need administrator credentials to access this screen.

3 Click on the PCT's name and drag the device to the MFP you want to associate it with in the list of devices above.

4 Select the PCT embedded device. The **PageControl Touch terminal summary** dialog displays:

5 In the **Definition** section, provide a **Name** and **Description** for this PCT.

6 In the **Behavior** section:

- From the **Rule set** drop-down list, select the rule set used by this PCT.
- From the **Configuration set** drop-down list, select the general configuration set used by this PCT, if you do not want to use the default. See **Configuration sets** on page 43 for more information.
- From the **Override Copier Type** drop-down list, select the particular MFP device connected to the PCT. This allows the PCT to only use the attributes available on the MFP.
- From the **Welcome screen** drop-down list, select the welcome Screen configuration set used by this PCT, if different from the default. This enables the PCT to use custom initial screens.
- From the **Language set** drop-down list, select the appropriate language set, if different from the default.

Configuring the device

There are three separate groups of settings that work together to determine the behavior of a PCT device:

- Configuration sets
- Containers
- Workflows

Each of these groups have settings that operate contingent on the settings in the other groups. It is possible that settings from one group can override the settings in another, therefore it is important to ensure the correct setup and interaction of all three groups to ensure a proper setup.

Configuration sets

Configuration sets are the primary method for defining how a PCT device behaves. Once configured, a Configuration Set can be assigned to any number of PCT devices. There are three common types of Configuration set:

- **Welcome screen**. Contains information about the screen displayed as the first a user sees when looking at a PCT. The Welcome screen can be customized to allow any PCT to offer specific information or device options,

and can have custom HTML code to change the appearance of the screen so it is instantly recognizable. For instance, in the case of a particular department, or information about your enterprise. See **PCT Settings** on page 51 for more information about Welcome configuration sets.

- **General**. Contains information about the workflows that are available, the keyboard types used, and logout and document release behavior. Typically, one of your general configuration sets is designated as the default set used for most PCT devices in your enterprise. PCT devices use a general configuration set which is typically called a **Default PCT Config Set**, discussed later in this section.
- **Language**. Contains information about the languages offered to users when using the device. See the Equitrac Express Administration Guide for more information about Language sets.

One configuration set per type can be designated as a default set. Any PCT can be assigned to any configuration set. Based upon the settings in a Configuration set, PCTs can be targeted toward specific use scenarios. For example:

- Public facing copiers vs internal copiers
- Grouping PCTs by department or geography
- Restricting PCTs to an intended use, for example convenience copy vs. individual usage.

The options in a general configuration set act as the default settings for the PCT device. If any complementary settings in containers or workflows are not set, or are set to defaults, the configuration set options are used. To configure a configuration set:

1. On the server, navigate to **Start** > **All Programs** > **Equitrac Express** > **System Manager**. System Manger opens.
2. Navigate to **Configuration** > **Configuration sets** > **PageControl Touch**. The **Manage PageControl Touch configuration sets** dialog opens:

   Each set listed in the dialog can be assigned to any or all PCTs in your enterprise. The settings in each set govern how a PCT functions. If you require PCTs to behave differently, you can create as many sets as necessary.

3. To designate a configuration set as default, right click the configuration set name or check box. A context menu displays allowing you to **Add** a configuration set, **Edit** the current set, **Remove** the current set, or **Set as default**. Select **Set as default**.

NOTE: You cannot have more than one default configuration set per type. Selecting one configuration set as default deselects the previously selected set. Attempting to remove a default set is not permitted until another set has been designated as default.

4 Select the **Default PCT Config Set** link. The **PageControl Touch configuration set** dialog opens:

5 Provide a **Name** and **Description** for the configuration set if required. Existing sets already contain this information; it can be modified.

6 In the **Administrative access** area, enter the administrator **User** and **Password**. This is the password used for web admin, remote access and local administrative access on the device. Until a PCT is associated with a configuration set, these values are *admin* and *equitrac*.

7 The **Default keyboard types for prompting** area governs the soft keyboard that is presented on the device under the listed conditions. You can choose from the following drop-down list options for each of the prompts:

- **Alpha-Numeric** - displays a full keyboard with the option to switch to numeric if the field requires letters and numbers.

- **Numeric** - displays only a numbered keyboard if the field only requires numbers. Note that users are unable to call an alphanumeric keyboard from a numeric one.

8 From the **Offline access** drop-down list, select the PCT's accessibility when offline, or if it loses connection with the DCE:

- **None** - The PCT denies access to regular users' authentication. Logins to the device are not permitted. Administrative logins are still permitted for management purposes. If the bypass is enabled, users can still access the MFP. See **Copy Control** on page 40 for more information.
- **Cached only** - The PCT allows access to only those users whose credentials reside in its internal cache. This is limited to only those users who have used the PCT before, and only the last 50 users. The PCT also caches user's workflows. Transactions are posted once the PCT goes back online.
- **Allow all** - The PCT allows unrestricted access. Unrestricted access impacts the ability of the system to validate the existence of users or their login information.

NOTE: Follow-You Printing does not function in Offline mode.

9 In the **Session timeouts in seconds** area, set the system timeout values.:

- The value for **User Inactivity** measures the length of time a user does not interact with the PCT from the last interaction. An interaction can be a touch of the touchscreen, a keystroke on the hard keyboard, a card presentment, or a copy pulse.
- The value for **Hold/Copier inactivity** measures the length of time since the PCT has detected a copy pulse from the MFP.

10 In the **Options** area, set the logout and document release behavior:

NOTE: For more information about login behavior see **Logging Into PCT** on page 56.

- Select the **Force logout on swipe** check box to allow users to logout by presenting the authentication card of the currently logged in user.
- From the **Release behavior** drop-down list, select how documents in the print queue are released:
  - Select **Prompt** to allow users to release documents through the regular configured workflows. Deselecting this releases documents automatically at login.
  - Select **First is released** to automatically release the first document in the queue at login.
  - Select **Release all at login** to automatically release all documents in the queue at login. Note this does not automatically log the user out.
- From the **Prompt for release key** drop-down list, select how release keys are used for this device:

- Select **Default** to use the settings defined in the Session flow section.
- Select **Enabled** to prompt for the release key before releasing the document(s)
- Select **Disabled** to bypass the release key.

11 In the **Workflows** area, set the features available by default to users. The settings in this dialog box are Configuration Set level settings, and as such globally impact settings on their respective PCT devices regardless of the settings in containers and workflows associated with the PCT device:

- Click the **Reset to defaults** button to return the Workflows to session flow values.
- Click the **Enabled** check box beside any configured feature you want to make available. **Disabling** this check box disables all corresponding workflows configured elsewhere for devices using this configuration set.
- Click the ellipsis (. . .) of the feature to modify the billing prompting. Doing so opens its Workflow Billing prompting dialog box. These settings represent the default values for devices associated with this configuration set. The settings are used if the equivalent Workflow setting is left at **Default**. See **Workflows** on page 49 for more information:

- Select the **Always prompt for billing code** check box to prompt the user for a billing code each time the feature is accessed.
- Select the **Default to a user session previous billing code** check box to pre-populate the billing code field with the last billing code entered by the user during the active session.

NOTE: In order to match the behavior of other embedded clients and have copies automatically charged to billing codes provided at login, the **Default to a user session previous billing code** option must be selected.

12 Select the **Prompt for billing code after user identification** check box to prompt the user for a billing code immediately after they sign in to the PCT.

Containers

Containers are a way of creating collections of workflows. To offer a specific selection of workflows, the workflows are placed into a container, the contents of which are shown to the user. For example, the typical Launcher screen for a PCT device is a container that houses the Follow-You Printing, Enable Copier, and Release all workflows:

Most containers are general containers. However, there are some containers that are special and have unique attributes, for example the inability to delete them. The PCT Launcher container is a special container that controls the initial screen after authentication. You must configure the Launcher container to properly display the options available on the PCT device:

1 Navigate to **Configuration** > **Workflows and Scanning** > **Workflow containers**. The list of **Workflow containers** opens:

2 Click the **Launcher** to display its definition:

3 Select any or all of **Follow-You Printing**, **Enable Copier**, or **Release all** functions, and include them in the **Added workflows and containers** pane. You can add them by selecting the function in the left pane and moving it to the right using the > button. Move any other functions from the right pane by selecting the function and using the < button.

NOTE: Any functions other than Follow-You Printing, Enable Copier, and Release all will **not** work with PCT, because scanning workflows are not supported. You can change the order in which added functions appear on the PCT screen by selecting the function and moving it using the Up and Down arrows.

4 Click **OK**.

NOTE: If you configure the Launcher container with only one workflow, upon a user logging in the container is bypassed and the workflow is automatically initiated. This behavior only occurs at login. If a user opts to return to the Launcher during their session, the Launcher displays containing the single workflow.

Workflows

The settings under Workflows contain their own options which can override the device's default Configuration set options. In order to ensure all devices use the default settings contained in the Configuration set, follow this process:

1 Navigate to **Configuration** > **Workflows and Scanning** > **Workflow management**. The **Workflow management** options display:

2 Ensure all **Active** check boxes for the available functions are **selected**.

3 For **Follow-You Printing** and **Release all**, click the function to display its **Workflow definition**:

4 To accept the Configuration set default settings, set the **Prompt for billing code** option to **Default**. Otherwise, select the behavior to use for this workflow.

5 To accept the Configuration set default settings, set the **Prompt for release key** option to **Default**. Otherwise, select the behavior to use for this workflow.

6 Click **OK**.

PCT Settings

PCT devices can offer up settings that are modified from the welcome screen. The settings that are available are configured through System Manager, and can be modified per device through configuration sets. Custom Welcome screens are also configurable. This allows you to personalize the PCT to your enterprise, or each configuration set in the enterprise can have its own welcome screen. These settings allow you to select which of the PCT settings can be modified at the device:

To modify these settings:

1 On the server, navigate to **Start** > **All Programs** > **Equitrac Express** > **System Manager**. System Manger opens.

2 In the left pane, under **System - (your server name)**, select **Configuration**.

3 In the right pane, under **Configuration sets**, select **PageControl Touch**. The **Manage PageControl Touch configuration sets** dialog opens.

Each set listed in the dialog can be assigned to any or all PCTs in your enterprise. The setting in each set govern how a PCT functions. If you require PCTs to behave differently, you can create as many sets as necessary.

Select the **Default PCT Welcome Screen** link. The **PageControl Touch Welcome screen configuration set** dialog opens, This dialog governs the settings that are available on the PCT:

4 Provide a **Name** and **Description** for the configuration set, if not already populated.

5 In the **Show/Hide options** area, select the check boxes of the items you want to make available on the settings screen of the PCT. Depending upon the setting, users will either see information about the setting, such as the IP address associated with the PCT, or are offered a button that allows a modification to the PCT, such as a volume slider.

NOTE: The options set here do not carry over if you subsequently decide to omit a Welcome screen from your installation. In this case, the settings button still appears on the first screen of your setup, however, the settings used return to the default collection of options.

6 In the **Welcome Screen HTML** field, enter in any HTML code. The welcome screens for the device can be customized with your own graphics collateral. This code supersedes the default Welcome code to determine

the look and feel of the screen users see when they first approach a PCT. For more complex HTML code, click the ellipsis (. . .) button to open the HTML editor:

Use this space to write or edit your own HTML code for the PCT, or click the **From File...** button to load a text file with pre-existing HTML code. The code can modify anything about the look and feel of the welcome screen, and can be used to include your own fonts, graphics or layout. Up to HTML4 is supported. The workable area for custom HTML is approximately 800x330 pixels. Please bear this in mind when designing graphics collateral:

NOTE: Java scripting is not supported within this HTML editor. This is to prevent security vulnerabilities that could arise with the Java script runtime.

Adding a Customized Logo

You can add a customized logo. The following graphic shows the location and size of your logo as it appears on the front panel.

If a custom logo is used in the installation, it must be placed on the server at:

`[INSTALLDIR]\Device Control Engine\logo\`

In order to fit the dimensions of the top bar of the user interface:

- The custom logo should be approximately 125 pixels wide, and no more than 56 pixels high.
- The blue top bar of the interface has RGB values of 16,80,112. Use these values for your background to blend the custom logo to the top bar, or design a logo with a transparent background.
- The custom logo must use RGB Color Mode.

To use your own logo:

1. Create your logo using the guidelines mentioned above. Save it with the name `PctLogo.png`.
2. Copy the new file into `[INSTALLDIR]\Device Control Engine\logo\` folder.

NOTE: You must reboot the PCT before the new logo appears.

3 User Workflows

Topics

Logging Into PCT

Entering Billing Codes

Selecting Functions

Follow-You Printing

Release all

Enable Copier

Logging Out of PCT

Using a USB Keyboard at the Device

This chapter describes how to login to PCT and use its features. This chapter also provides information about entering billing codes and using campus cards.

If your administrator has enabled account limit enforcement, color quotas, and/or billing codes, read the following paragraphs before you use PCT.

Account limits (print)– Account limits ensure that you have sufficient funds in your account to pay for print jobs before the jobs are released from the queue. As you select print jobs from the queue for release, the software checks your output against your estimated account balance. If the total cost of printing selected documents is more than your estimated available fund balance, the PCT will not release the print jobs. Instead, an error message displays in the information bar indicating that the balance is not enough to pay for the printing or copying. After you add funds to your account, you can login again to release your jobs. Print account limits are enforced per job.

Account limits (Copy stop)- Account limits ensure that you have sufficient funds in your account to pay for copy jobs as the jobs are being released from the queue. PCT stops the copy job at the point when the estimated account balance is exceeded, and locks access to the MFP functions. If there are no funds available, access to the copy function is denied. The account limit and copy stop features are only available in Equitrac Express. Copy account limits are enforced per page.

Billing Codes – A billing code is a unique combination of characters that represent a charge-back group. You can assign your transactions to a particular code, and Equitrac Office/Express tracks the characteristics of copy or print jobs assigned to the code. The jobs are then billed against the account associated with the billing code.

Color quota – Color quotas are used to limit the amount of color copying and printing that you can produce. As you copy or print, PCT compares your output to your color quota balance (in number of pages). Once you reach the quota, PCT performs the following actions:

- When copying, PCT disables the MFP.

- When printing, PCT disallows selected print jobs that have a greater number of color pages than the remaining color quota.

You are able to produce color output only when your color quota is reset on the server. This applies to any given original document size or duplex setting such as large documents with double-sided or single-sided originals.

NOTE: Many MFPs cannot enable color and black and white copy functions independent of each other. As a result, the workflow related to copies disables **both** copy types when the color quota is reached. This is not the case with printing.

Logging Into PCT

PCT can be configured for a number of different authentication workflows. For example:

- Card presentment

NOTE: The animated graphic used above in the right side of the screen only appears when a card reader is present in the hardware. A different graphic displays when an external card reader is attached to the PCT device, and no graphic when neither is present.

- Windows Authentication
- Billing codes
- Equitrac PINs
- LDAP authentication
- Billing codes and department IDs
- Combinations of the listed methods

These various workflows can be configured by your administrator.

The functions that are available, and to which users these functions are presented, is governed by how Workflows and their respective Workflow Containers are configured in Equitrac Office/Express.

To log in, and for most interactions with the PCT, you use the touch screen or present your card. Touching fields on the screen invokes an on-screen keyboard, or you can use an attached USB keyboard, if provided.

Proximity card login

Depending upon configuration, the PCT can use an external USB card reader, or the internal proximity reader built into any PCT on the upper right hand side of the device; place the card against the right-side housing of the PCT to activate the sensor.

A user approaches the PCT and presents his or her card by touching it to the right side of the PCT where indicated:

When using proximity cards, the following scenarios are possible:

- Presenting a card logs you in.
- Presenting while logged in logs you out of the session.
- Presenting while another user is logged in logs the current user out automatically.
- Presenting an unregistered card allows the ability to register that card to a user if configured.
- Presenting a card also requires a password to complete the login.

NOTE: Swiping your card to logout can be configured. For detailed information about card presentment behavior, see the Equitrac Office/Express Administration Guide.

Manual login

1 Touch anywhere on the PCT screen**.** Depending on which workflows have been configured and are available to your department, one or both of the following prompts appears:

- **User ID** - Enter your user ID by tapping in the field and using the soft keyboard that displays, or use the attached USB keyboard, if provided.
- **Password** - Enter your password by tapping in the field and using the soft keyboard that displays, or use the attached USB keyboard, if provided.

- **Billing code screen** - if billing codes are enabled on the server, and are configured to appear immediately after authentication. Use the soft keyboard that displays, or use the attached USB keyboard, if provided to enter the billing details.

2 Enter valid login credentials. The following are examples of valid login credentials:

- Equitrac primary PIN only
- Equitrac primary and secondary PINs
- Windows Networking credentials – network user name and password
- Present card at the card reader
- Present card and Equitrac secondary PIN
- Present card and Windows password
- Equitrac primary PIN and Windows password
- Campus card presented at the card reader. (for Equitrac Express only)
- Department PIN codes
- Billing Code PIN codes

NOTE: The last prompt field on the Login screen is masked to protect your login credentials. If secondary prompts are not enabled on the server, the User ID field is masked (***). If secondary prompts are enabled, the Password field is masked instead.

Keyboard language selection

The language and keyboard layout of PCT is user-changeable at the device:

To change the keyboard from PCT on any screen wherein a soft keyboard is displayed:

1 Touch and hold the space bar in the center. A pop-up dialog displays above the space bar.

2 Without removing your finger, swipe either left or right to access the next language option.

NOTE: If you reconfigure the keyboard, the settings remain until changed--it does not revert back to previous settings upon logout.

CAUTION: All soft keyboards are selectable regardless of if a language pack is configured on the server. The language depicted on the keyboard is independent of the selected UI language in the system settings. Use caution when changing keyboard language, as it is possible to select a language for the keyboard that is not supported by the system settings.

Special characters

Regardless of which keyboard is chosen, you can select certain special characters, such as accented letters from the soft keyboard. Pressing a key and holding it displays a context menu allowing you to access additional versions of the character being pressed. For example, to enter the character "é", press and hold on the "e" key, then select "é" from the context menu:

Auto card registration

If you want users to self-register their identification cards, you must enable this option in System Manager. When a user presents an unregistered card, they are required to login to the MFP with valid primary and secondary user credentials (if configured). The information the user must enter depends upon the authentication mechanisms set in System Manager.

1 Open **System Manager** and navigate to **Configuration** > **Security and authentication** > **User authentication**.

2 From the **Input type** drop-down list, select the input type which best suits your setup. Choose from **Card swipe only**, **Card swipe or keypad entry**, or **Keypad only**.

3 From the **Secondary prompt** drop-down list, select the secondary prompt method which best suits your setup. Choose from **Always**, **If PIN2 available**, **If PIN2 available or keyboard login**, **Never**, or **Only with keyboard login**.

4 Ensure the **Deny keyboard login with empty password** check box is **selected** to prevent users from leaving the password field blank when logging in.

NOTE: If a user has a secondary PIN or external password associated with their user account, they must enter their secondary user credentials on the MFP front panel when prompted. If the user does not have a secondary PIN or password associated with their user account, they can leave the field blank to proceed. See the *Equitrac Office/Express Administration Guide* for more information about login restrictions.

5 Select the **Auto-register primary PINs** checkbox. Optionally, you can select **Register as alternate PIN** to record the PIN as the alternate PIN instead of the primary PIN. The **Auto-register primary PINs** option must be selected for card registration.

6 Select one or more **Authentication mechanisms**:

- **Equitrac Office/Express PINs** – Leave selected.
- **External user ID and password** – Select to verify all user information such as Windows or LDAP information.
- **Equitrac PIN with external password** – Enable if users present their cards for identification, and must also enter their domain user account password. Equitrac cross-checks the database for the corresponding Equitrac account name, then verify the credentials against the selected external authority for network logon.

7 Click **OK** to save the changes.

The next time the user presents the card, their account information is automatically associated with the card, and they can login without manually entering their user credentials.

If a recognized card is not associated with a user, you are prompted to enter your authentication details if the card auto-registration feature is enabled. The next time you present the card, your login information is populated automatically. Otherwise, the system displays a "login failed" error.

Campus Card Login

The Equitrac Express Campus Card feature enables users to login to PCT by either presenting a Campus Card or entering their login credentials (e.g. primary PIN) using the login screen when a Campus Card account is associated with an Equitrac User account.

Campus cards can be automatically associated with an Equitrac user account at login, which in turn allows users of Campus Cards to log in and perform print release functions. When a users presents a Campus Card, the user can then log in using Equitrac credentials which are then linked to the card:

For instructions on how to enable this feature, see the *Equitrac Express Administration Guide*.

To login with Campus Card, do the following:

1 Configure a Campus Card system in System Manager. See the *Equitrac Express Administration Guide* for instructions on how to do this.

2 Swipe the Campus Card at the card reader attached to the PCT device or enter the associated login credentials.

NOTE: If **Secondary prompt** is configured in System Manager > Configuration > Security and authentication > User authentication, a Secondary PIN is also needed.

3 Select the desired account if multiple accounts with funds are available:

A Campus Card account may have several tender keys (similar to purses). In this case, the server handles them as separate Campus Card accounts.

A regular account can be selected when:

- The primary identifier of the Campus Card account has been imported and an Equitrac User ID was assigned to it with CampusCardImport.exe. See the Equitrac Express Administration Guide for more information about primary identifiers.
- The administrator of the Campus Card system being used has associated an Equitrac User ID for the Campus Card account in the Campus Card system which is returned with the Campus Card account.
- The primary identifier also detects an Equitrac account.

If you have difficulty logging in

If your credentials are not validated, an error message appears requiring you to try your login again. If you cannot login, check the server icon in the top left corner of the Login screen. If the top bar is red, or the information bar at the bottom of the display shows a yellow warning triangle, the PCT has lost communication with the server. In this case, you can login only if the device has been configured for offline operation.

Entering Billing Codes

If billing codes are configured, the **Billing Details** screen opens immediately after the **Login** screen. The code entered here applies only to copy jobs; print jobs are typically assigned at time of print. If overrides for Follow-You printing are enabled, a billing code which overrides the first can be entered and upon job release in the Follow-You Printing screen.

1 Select or enter the billing code. There are three possibilities for selecting a code:

   a If there is only one billing code in the system thereby negating the possibility of a choice, the PCT assigns the code automatically without any input required. The billing screen is skipped entirely. If the billing code is optional, the user is prompted for the code, even if there is only one code.

   b If there are between 2 and10 billing codes in the system, and billing codes are configured to be required, the field presents as an expanded scrollable pick list. Touch the billing code you want to use in the list. If the code is not displayed, use the up and down arrows to navigate through the available codes.

c In cases where there are either more than 10 billing codes required, or if billing codes are configured as not required, a standard field displays allowing you to enter a billing code with a keyboard, and also provides the ability to search all billing codes for the one you need by clicking the magnifying glass icon. Enter the search criteria in the field, then select **Search** again. The screen updates with the first 100 codes that matched your search. Use the Up/Down arrows to browse through billing codes and select the correct code, then touch **OK**.

2 If configured, select whether the job is **Billable** or not. This marks a transaction as billable or not. Consult the *Equitrac Office/Express Administration Guide* for information about billable transactions.

3 Touch **Done** to continue.

If the Billing Code validation is enabled, the billing code is validated when you touch **Done**. If you searched for a code and selected it from the list, it is validated immediately, and the description is displayed beside the code field.

Selecting Functions

The functions that are available, and to which users these functions are presented, is managed through the Equitrac Office/Express administration tools. See **Server Setup** on page 42 for information about functions. Once you have logged into the PCT, the Launcher screen displays:

When you finish using a function, the PCT reverts to this screen. You can then select another function, or you can touch **Logout** to end your current session.

NOTE: If only one function is assigned to the PCT device, this screen is bypassed, and the device automatically launches into that function.

Follow-You Printing

The Follow-You Printing screen displays all the queued documents associated with your login credentials, or release key. By default, the list displays documents in order from longest-queued to most-recently queued.

NOTE: The print queue will only display up to the first 100 print jobs per user.

Each time you request the release of a document from the Job list, the system checks your estimated available account balance. If account limits are enforced, and the total cost of the requested document(s) exceed the available account balance, a message displays indicating that the estimated account balance would be exceeded and the items are not released for print.

NOTE: Account limits are a licensable feature available in Equitrac Express.

- Select the document(s) you want to release by touching within the row where the document is listed. When a document is selected, a check mark displays in the box next to the document name.
- Touch **Print** to release all selected documents.
- Touch **Print & Save** to release any selected print job and save them in the Equitrac print queue.
- Touch **Delete** to remove selected documents from the Job List and print queue without printing them.
- Touch **Select All** to select all documents. This applies to all documents in the list, including those on subsequent screens, if any. To deselect a document and not release it for printing, touch the document again to deselect it. If all documents are selected, this button displays as **Unselect All**, which deselects all selected documents.
- Touch the **Force Mono** check box to select it, and force color jobs to print in black & white. Deselect the check box to return to color printing.
- Touch **Refresh** to update the document list.
- Touch the **Up** or **Down** arrows to quickly move between pages if the list of documents are on more than one page. The current page and total number of pages displays below the list.
- Touch **Done** to return to the PCT Launcher screen.

- Touch **Logout** to end your current session.

When you select a job to Print, Print & Save, or Delete, the document details are displayed in the Job Details section at the upper right of the screen.

Release all

Touch **Release all** to print all documents currently held in the print queue. Selecting this displays a progress bar and information about how many documents have been released.

When complete, PCT displays the Launcher screen. Note that you can select the X icon to stop printing. This cancels the print job.

NOTE: Depending upon the number of documents already in the print queue, some documents may still print even though the X icon was pressed.

Enable Copier

Touch **Enable Copier** to unlock the device and make it ready for use. Once unlocked all of the native functions of the device become available.

NOTE: Device functions can only be unlocked by selecting the **Enable Copier** function.

The PCT displays the **Enable Copier** screen:

Use the MFP copy functionality to make copies. As you do, the **Total Impressions** counter increments, as does the **Estimated Cost** of the copy job. Depending upon the manufacturer of the MFP, and the particular copy cable in use, additional information may display to the right of the Copy screen.

NOTE: The job cost is checked against any account limits set up by the administrator, and is subject to the available funds in your account. If your account balance has insufficient funds to proceed with the job, the PCT locks the device, copying stops and a message is displayed on the PCT.

Select the **Hold** button to reset the timeout feature of the PCT. Typically, after a period of inactivity the PCT logs the user out and ends the session for security reasons. This time is counted down and displayed on the **Hold** button.

NOTE: The **Hold** button does not end the session, but rather ends the copy function, returning the user to the **Launcher** screen. If there is a countdown from the **Launcher** screen, the session ends when the counter reaches 0.

When finished, select **Done** to return to the Launcher, or **Logout** to end your session.

Logging Out of PCT

To end a user session and log out of PCT, touch the **Logout** button.

NOTE: If configured, a user can present their card to the card reader to log out if they have also used the card to log in. This action works from anywhere in the workflow process, logging the user out as though they had pressed the **Logout** button. If a user logs in using a keyboard, presenting their card will not log them out.

If the Session Flow options in PCT are configured to display account balance or Session cost at end of a session, the **Session Summary** screen displays when you end a session. The **Session Summary** provides a brief overview of your session activity, and estimated costs.

After viewing the Session summary, click **OK** to close it and continue logging out of PCT.

Using a USB Keyboard at the Device

PCT supports any USB keyboard attached to the USB port on the device to navigate through the PCT touch screens. The following table outlines the keystroke behaviors:

Keystroke	Function
Tab	• Moves the focus to next enabled control within the screen.
Shift-Tab	• Moves the focus to previous enabled control within the screen.
Backspace	• When on an editable text field, this deletes the last character of the current entry.
Enter	• When on an Editable text field, activates the last button on the right of the screen.
PgUp/PgDn	• When navigating through a list box, moves between pages if the documents are on more than one page.
Fn-Up Arrow/ Fn-Down Arrow	• When navigating through a list box, this scrolls up and down through the list.
Fn-Right Arrow	• Moves the focus to next enabled control within the screen.
Fn-Left Arrow	• Moves the focus to previous enabled control within the screen.

When a button or field has focus, an orange outline appears around it. When a selected button has focus, its background also turns orange.

4 Troubleshooting

Topics

Logging

Device Restart

Card Reader

Device Start Up

This section discusses collecting logging information from the PCT device, troubleshooting issues you may encounter, and provides solutions for common issues.

Logging

PCT keeps detailed logs that can be used for troubleshooting purposes. Typically, these logs are only necessary when contacting Equitrac Support. If you need to access the logs, you can do so through the Web Administration, or by collecting them at the device itself.

Logs through Web Administration

To collect logs through the Web Administration tool, do the following:

1 Open a web browser and enter the following into the URL bar: `https://x.x.x.x:8443` where `x.x.x.x` is the IP address of the PCT to configure. The **PageControl Touch** Web Admin screen opens:

2 Click the **Log in** button. A **Log in** dialog box opens. Enter your administrator **name** and **password**. Until the PCT is associated with a server's configuration set and the set is modified, these values are **admin** and **equitrac**.

NOTE: Whenever a configuration set associated with a particular PCT device is modified, if the PCT's login credentials have not been altered from the default, you are required to change the credentials from the default. You cannot re-use *admin/equitrac* at this point.

3 Navigate to **Support** > **Support Tools**.

4 Next to **Download Log Files**, click **OK**. The log files download in a .zip archive to the Downloads folder of the computer being used to access PCT.

Logs through USB drive

Collecting logs directly from the PCT is useful in certain circumstances:

- You are experiencing network connectivity errors
- You do not know the IP address of the PCT
- You do not have access to a web browser
- You are in proximity to the PCT, and it is more convenient.

To collect logs directly from a PCT you must obtain a USB key drive. The drive must be formated to Windows NTFS, and have a minimum 10MB of free space to write the log files.

NOTE: Not all USB drives are supported; if the process does not work, try a different drive.

1 Insert the USB drive into the USB port on the left side of the PCT. Log files cannot be collected from either rear USB port.

2 At the PCT, select **Settings** > **Admin Authentication**. Enter your administrative credentials to log in.

3 Select **Support Tools**. The **Support Tools** screen displays:

4 Beside **Download Log Files To USB**, click **OK**. A pop-up dialog displays asking if you want to proceed. Select **Download log files to USB**.

The process of writing the log files takes approximately 2 minutes to complete. Do not navigate away from the Support Tools screen while the log files are being written. When complete, PCT displays the message "Done accessing/attempting to access USB - check for presence of logs, else retry." in the Information Bar indicating writing is complete.

The Log log files are written to the root folder of the USB drive. The resulting file is a .zip archive with the file name: `PCTLOGS-<Serial number>-yyyyMMddHHmmss.zip`.

NOTE: Because the log files are named using the particular PCT's serial number and time stamp, you can use the same USB drive to retrieve log files from multiple PCT devices. There is no need to reformat or clear the drive between log file retrievals.

Device Restart

If you are unable to restart the device using any of the methods outlined in this guide, a firmware update is necessary. Please follow the steps outlined in **Resetting the PCT to factory defaults** on page 19.

Card Reader

Registered card not recognized

Some cards contain more than one antenna. Only one code can be associated per user, per card. It is possible that the card reader is reading the alternate, unassigned code from the card. In this case, you can attempt to scan the card again using a different surface area of the card.

If the problem persists, contact the card manufacturer and request a configuration file for the affected card type. This file should be a .bec file. When you have the file, install the settings using the process described in **Install firmware using the Equitrac Deployment Tool** on page 24.

Device Start Up

Depending upon the reasons for restarting a PCT, the startup sequence may display screens that are different from a regular initialization as outlined in **Powering Up PCT** on page 17. The following are some possibilities, and what they indicate:

The system integrity check has failed. Please contact Equitrac support for information about this error.

The device is rebooted into recovery mode.

The device is in recovery mode, and checking file integrity.

A firmware update has failed while in recovery mode. Please contact Equitrac support for information about this error.

The device is rebooting while in recovery mode.

Firmware update in progress while device is in recovery mode. Do not reboot or allow the device to lose power.

Device is in recovery mode, waiting for firmware.

5 Appendix: Third-Party Software

The following software may be included in this product. Use of any of this software is governed by the terms outlined in the following licenses.

Apache License

The following Licenses may be used through this Licensing scheme:

- Jetty
- iJetty
- Log4j
- Android serial port API
- GWT
- Picolo Java XML parser
- net.minidev.json
- libmincrypt
- adbd

Version 2.0, January 2004

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dhcpcd - DHCP client daemon

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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 compile 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 if these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 2.1, February 1999

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Preamble

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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.

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curve25519-donna: Curve25519 elliptic curve, public key function

http://code.google.com/p/curve25519-donna/

Adam Langley <agl@imperialviolet.org>

Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

More information about curve25519 can be found here http://cr.yp.to/ecdh.html

djb's sample implementation of curve25519 is written in a special assembly language called qhasm and uses the floating point registers.

This is, almost, a clean room reimplementation from the curve25519 paper. It uses many of the tricks described therein. Only the crecip function is taken from the sample implementation.

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punycode.c 0.4.0 (2001-Nov-17-Sat)

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