Operations Manual

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Chapter 1.0 Software Setup and Installation Instructions

Clikcontrol Installation

PESA Clikcontrol is a program that makes PESA routing switches available for control via a TCP/IP network. The program runs on a standard PC running either Microsoft Windows2000 Professional or Microsoft Windows XP professional.
The Clikcontrol utilizes a web-based interface to allow remote clients to access the controller. Most commonly, the Clikcontrol is installed in conjunction with Microsoft's IIS HTTP server. (IIS comes standard with Windows 2000 Professional and Windows XP Professional) However, it is not a requirement that IIS be installed as Clikcontrol can run with other HTTP servers such as Apache.
Before installing the Clikcontrol server, the HTTP server should already be installed and operational. This assists in setting up the appropriate directory structure from which the web pages are served.

Clikcontrol CD Contents

The Clikcontrol Installation CD contains all the program modules for installing and configuring the Clikcontrol server program. Among the files on the CD are:

Clikcontrol Server Install.EXE

The installation program that installs the actual server software onto the PC. It installs the program as a Windows Service and defaults its operation to interfacing to the 3500Pro controller. (As a service, the program runs whether a user is logged into the PC or not. When a user logs in, they will not see an icon for the program. Its running status can be verified via the Windows service manager or the Clikcontrol PC Setup Utility.)
The program installs the web pages that are served out to client machines and in turn are served out the JAVA applet that is run on the client machine. It is the JAVA applet that allows the client to take switches and read status from the router.
In addition to the server and the applet, the software installs the PC setup utility and the optional remote service reset utility.

Clikcontrol Configuration Install.EXE

The installation program that installs the remote configuration program.
This program can set the configuration of the server when it is interfacing to a non-3500Pro controller. This program can be installed and run from the same machine on which the server resides or may be installed on a machine that can access the Clikcontrol server via the network.

JAVA Plug-ins

In order to run the JAVA applet, a client machine's web browser must have the JAVA2 V1.4.2 plug-in installed. If the client machine has access to the Sun Microsystems web site, this installation occurs automatically. If not, then the plug-in is available on this CD for machines running Windows, Linux, or Solaris.
To install the plug in, find the file that matches the client machine's operating system and execute it.

Installing Microsoft IIS (5.0) or higher Internet Information Server

Installing IIS version 5.0 which comes with Windows 2000 professional or XP Professional is straightforward and relatively easy. The following setup process must be completed prior to installing Clikcontrol. By default, IIS must be manually installed; however the PC you are using may already have it installed. It is advisable to check to see if it has already been installed before proceeding.

To test if you have MS IIS Information server up and running

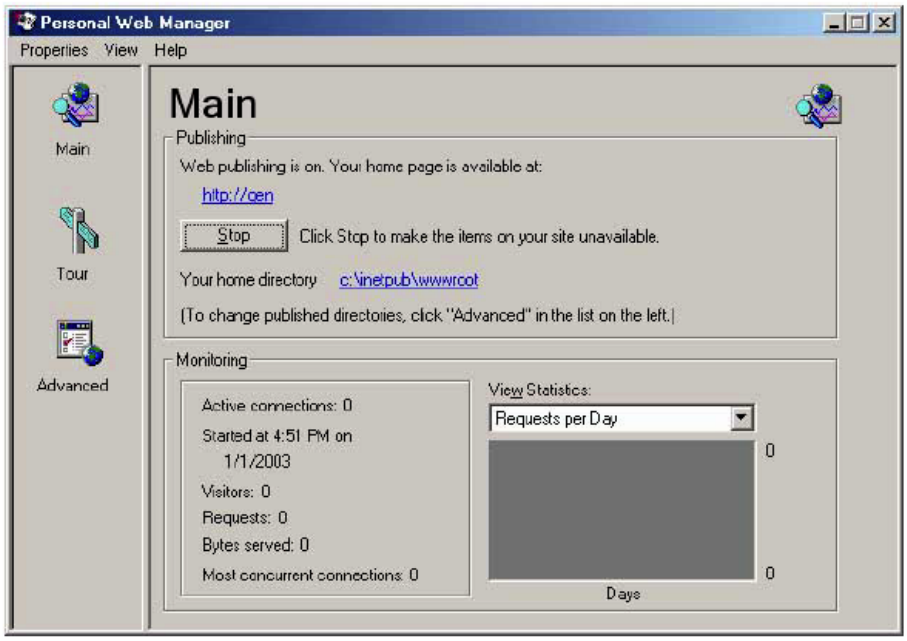


Figure 1 - Main Screen Personal Web Manager

Navigate your mouse to click on Start>Control Panel>Administrative tools. Then double click on Personal web manager if you see the window above you has the program installed and running.

To install Microsoft IIS, select Add Remove Programs>Add Windows components, select IIS from the check box – OK – you will probably need the Windows CD unless the files have been installed on your computer. See screen shots below.

Note if you are installing IIS, you should be logged on as Administrator

Installing IIS

Installing IIS – Go to control panel select Add\Remove Programs and you will see the box

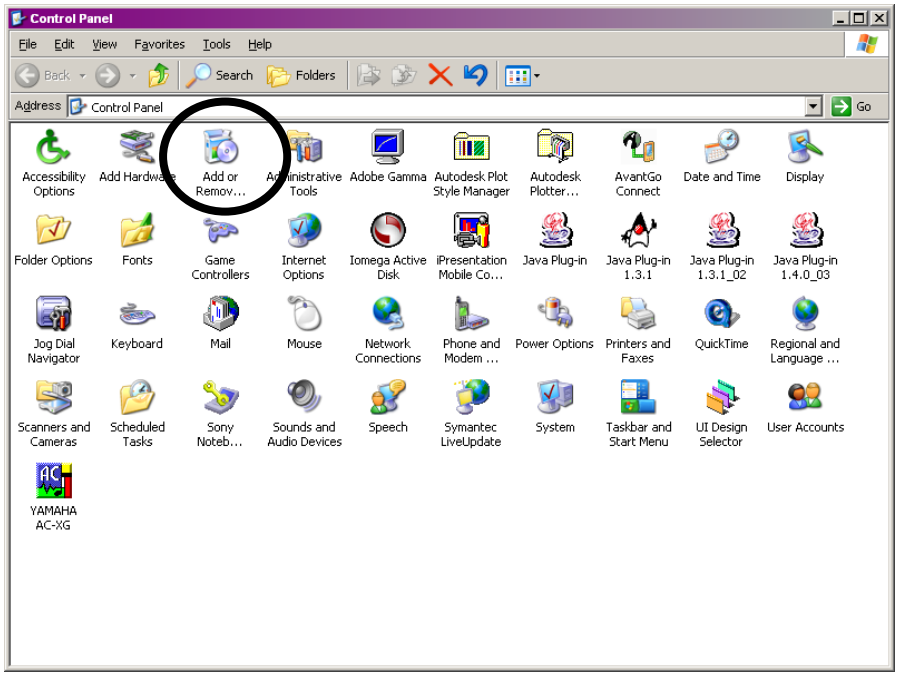


Figure 2 - Control Panel Selection for Add/Remove Program

From the control panel the following box will open. Click on the left menu button Add/Remove Programs.

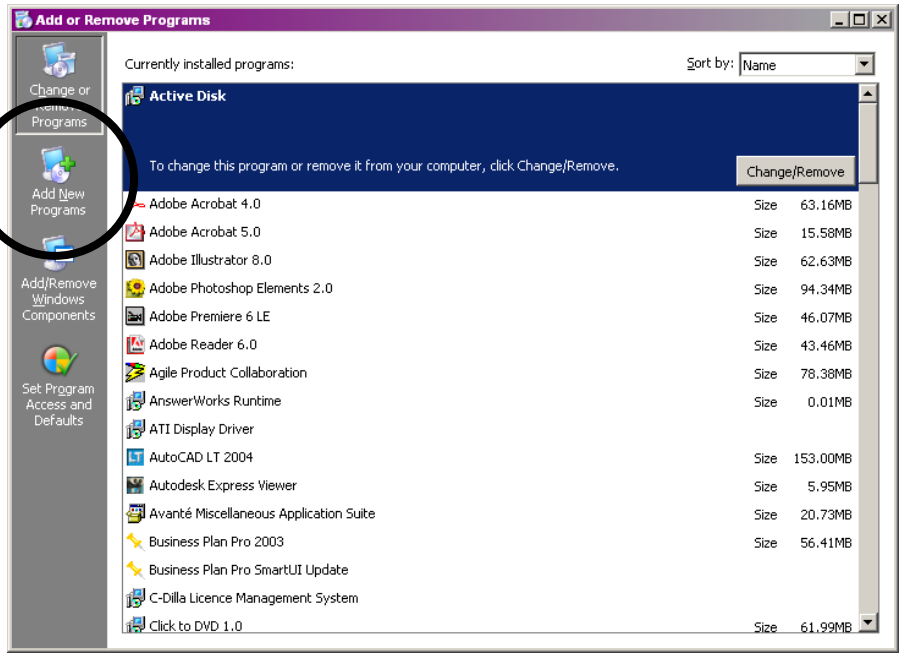


Figure 3 - Selection Screen Add or Remove Programs

Place a check in the Internet Information Services check box by selecting it with your mouse. Make sure that all other boxes are un-checked.
Select the Details button to display the Internet Information Services IIS dialog box

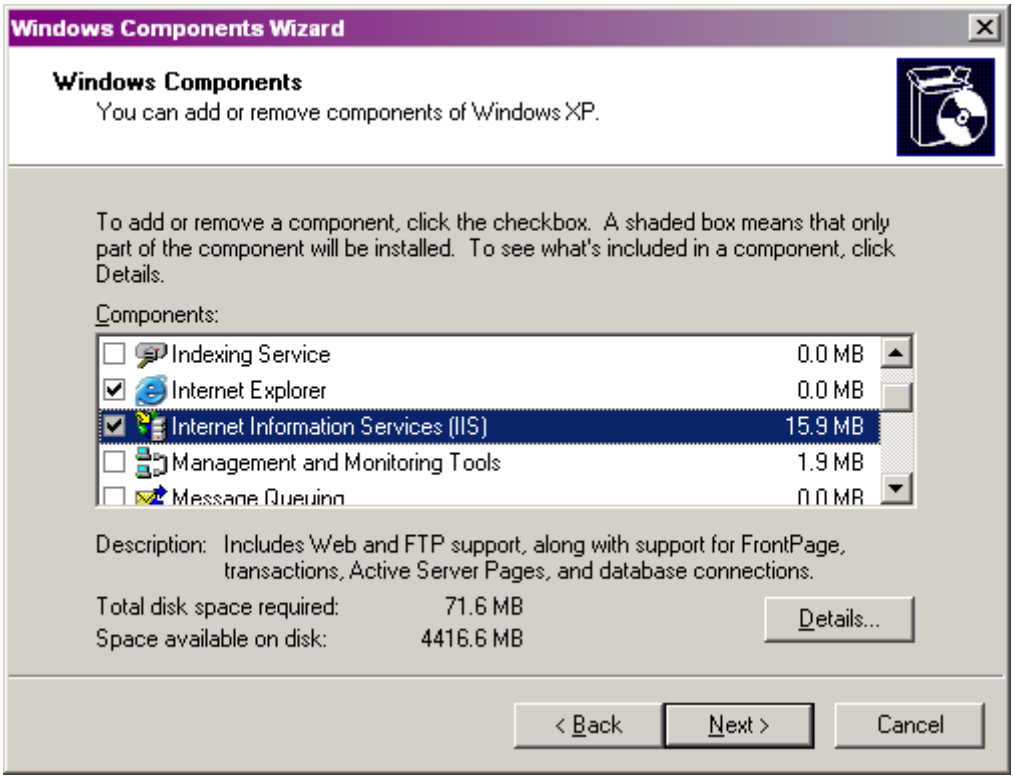


Figure 4. -Windows Components Wizard Screen

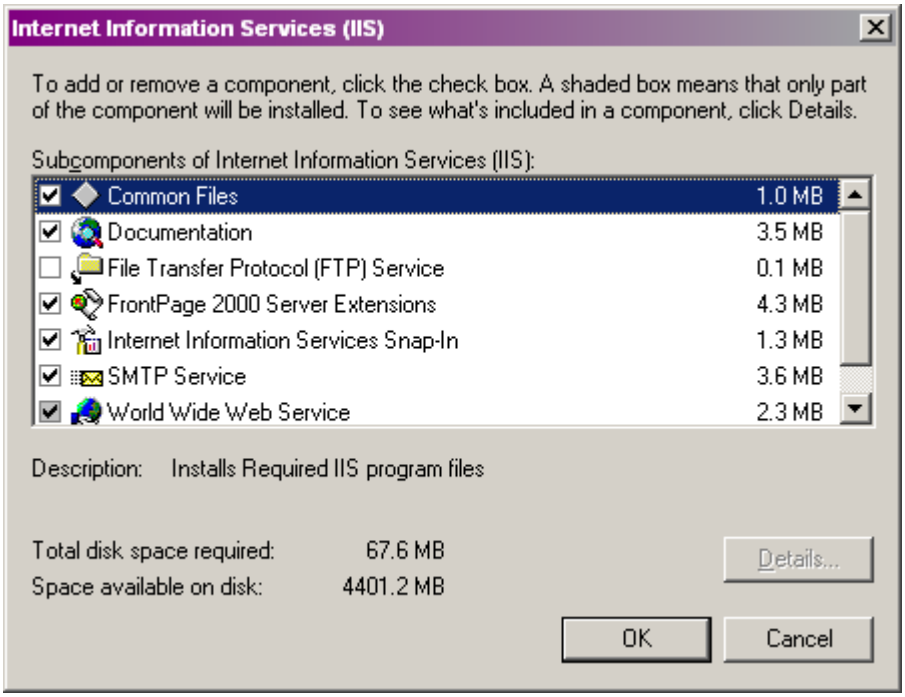


Figure 5 -Internet Information Services (IIS) Screen

This Dialog box above allows you select or eliminate certain features. Click the box beside the following services to support Clikcontrol.

- Common Files
- Documentation
- World Wide Web Service

Select OK>Next and the software will be installed automatically on your computer. When you are finished, restart the computer. Then go back Start> Settings>control panel>Administrative Tools>Personal Web Manager and you should see the screen shot below.

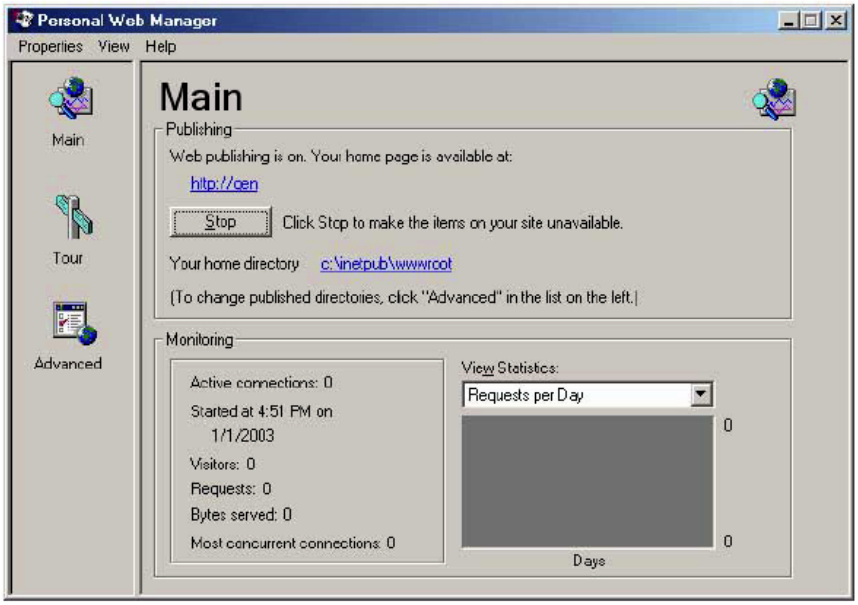


Figure 6 -Personal Web Manager Screen—Click on Advanced Options

Select the Advanced menu button to see the following screen shot.

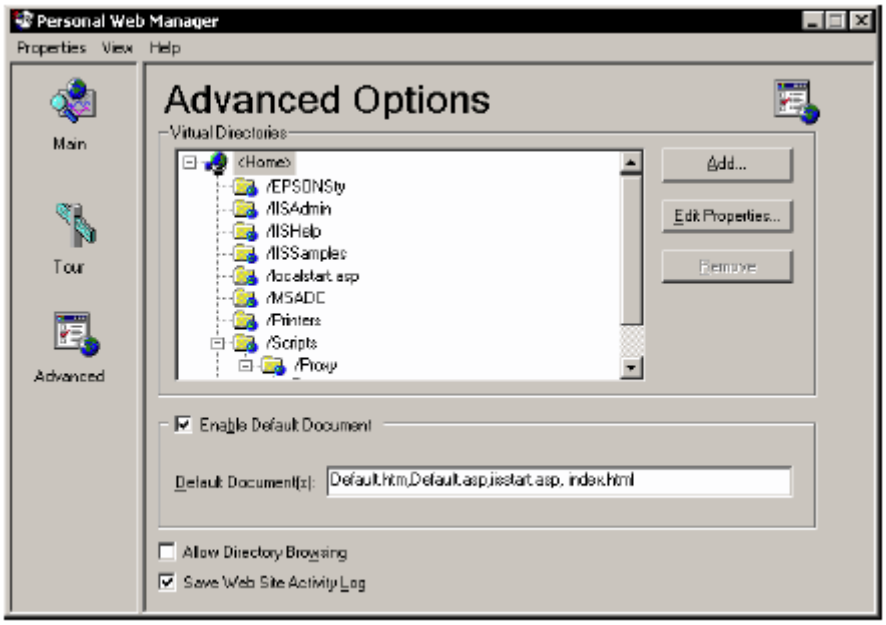


Figure 7 -Personal Web Manager Advanced Option Screen

In the Default Documents window type after iistart.asp, index.html

To Test if the server is working you can go into your C: drive and look for Inetpub folder, go inside this folder and you will see the following folders.

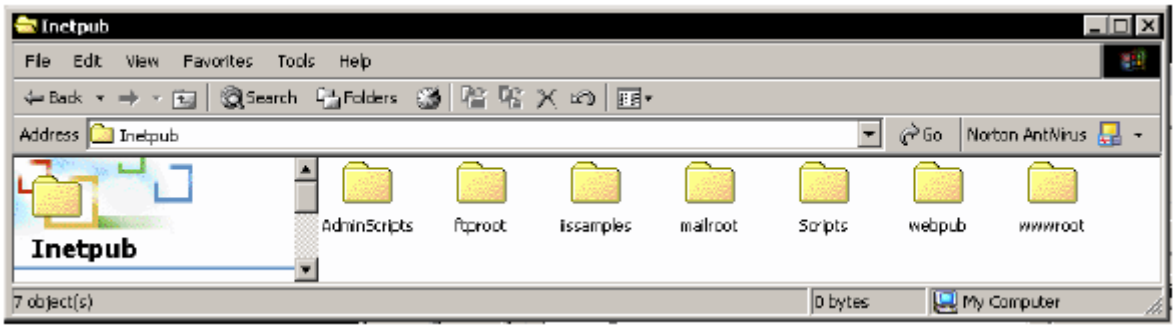


Figure 8 - Inetpub Folders Screen

The wwwroot folder is the folder where you place you HTML pages for testing. To determine if the web server is working properly you can create a simple HTML web page and save it as index.html into the wwwroot folder. By using a word processor such as Wordpad, type the following lines:

```
<html>
<head>
<title>Test Page</title>
</head>
<body>
<center>
<h1>Your web server is working!</h1>
</center>
</body>
</html>
```

Save this text as “index.html” into the wwwroot directory. Then open up your web browser and in the URL type: http://localhost/index.html or c:\Inetpub\wwwroot\index.html and you should see a web page with
Text displayed.

Figure 9 -Test Page-Microsoft Internet Explorer

Clikcontrol Server Installation

Before installing the Clikcontrol server, the HTTP server should already be installed and operational. This assists in setting up the appropriate directory structure from which the web pages are served.
To install the Server program, you must execute the **Clikcontrol Server Install.EXE** program on the installation CD. The installation program prompts as follows:

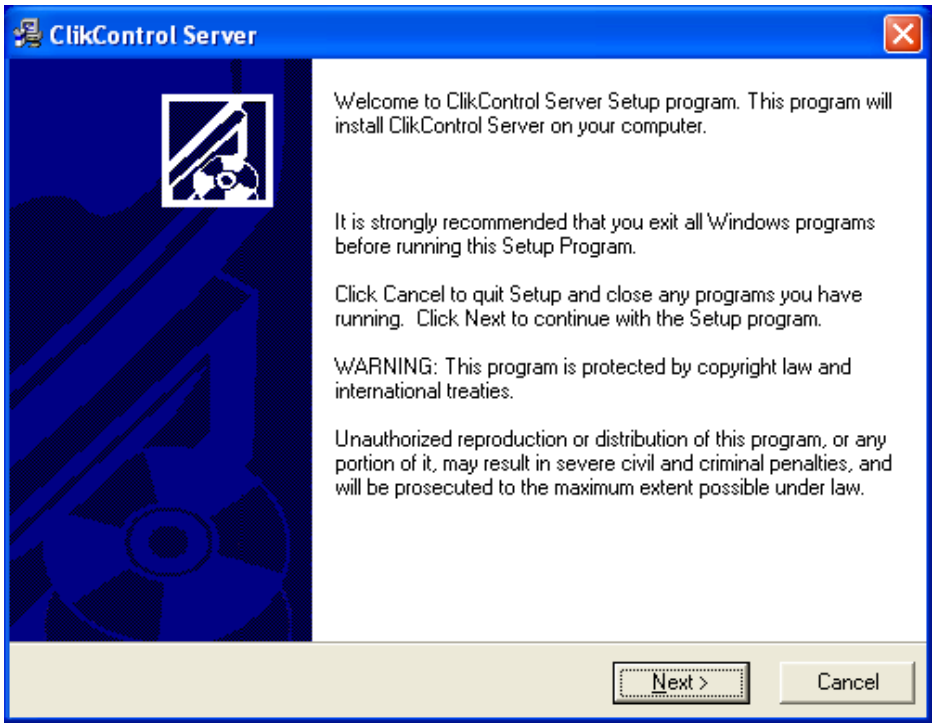


Figure 10 -Clikcontrol Server Welcome Screen

The installation program welcomes you into the installation program and indicates that it is advisable to shut down any unnecessary programs that may currently be running.

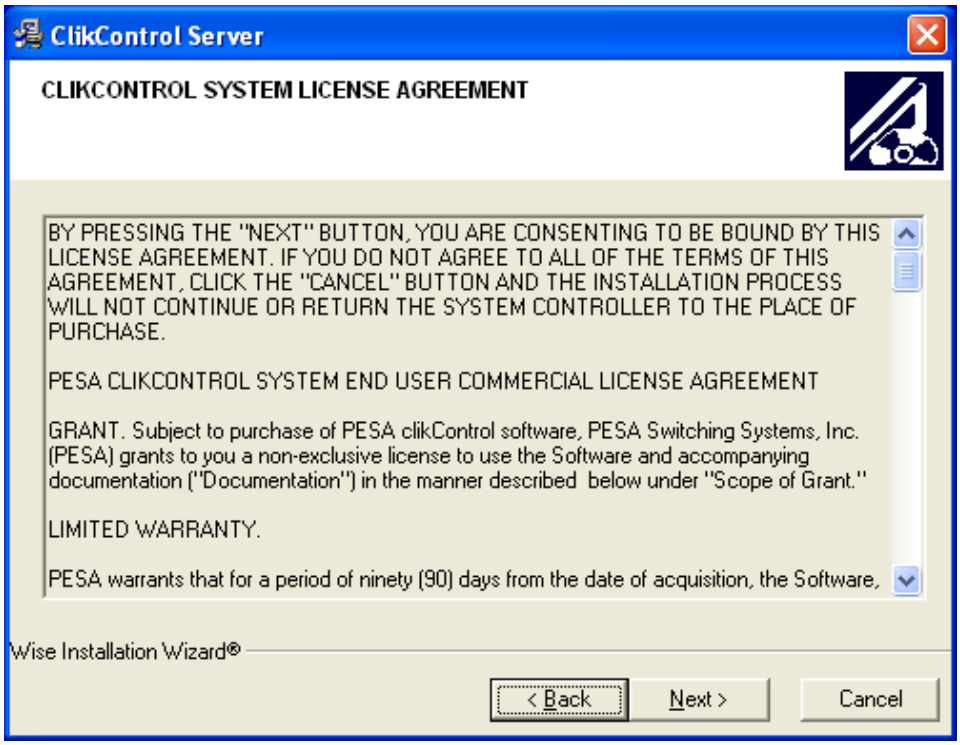


Figure 11 -Clikcontrol System License Agreement Screen

You are next presented with the license agreement for the software. After carefully reading the agreement, click on the “NEXT” button to continue the installation.

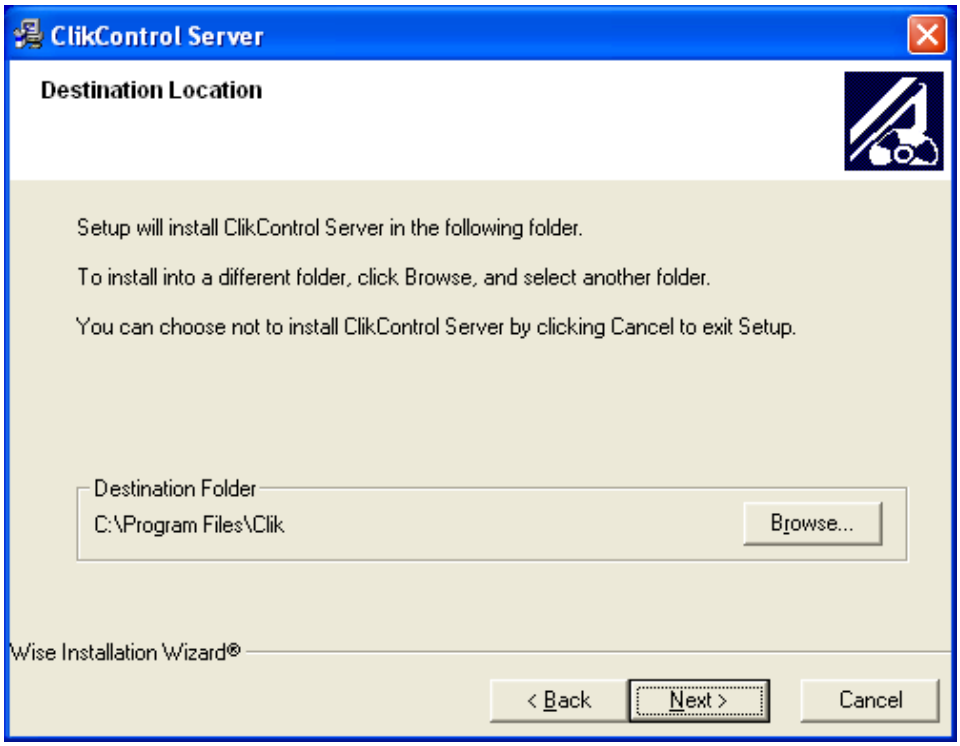


Figure 12 -Clikcontrol Program File Destination Folder Screen

Next, you are prompted to provide a directory into which the server is installed. In addition to the server executable, the installation software installs the Clikcontrol PC setup utility, a configuration file that contains settings that are not contained within the registry, a copy of the VB script used to virtual directories in the IIS HTTP server, and a copy of the ASP page that can be used to provide a means of remote reset of the Clikcontrol service into this directory.

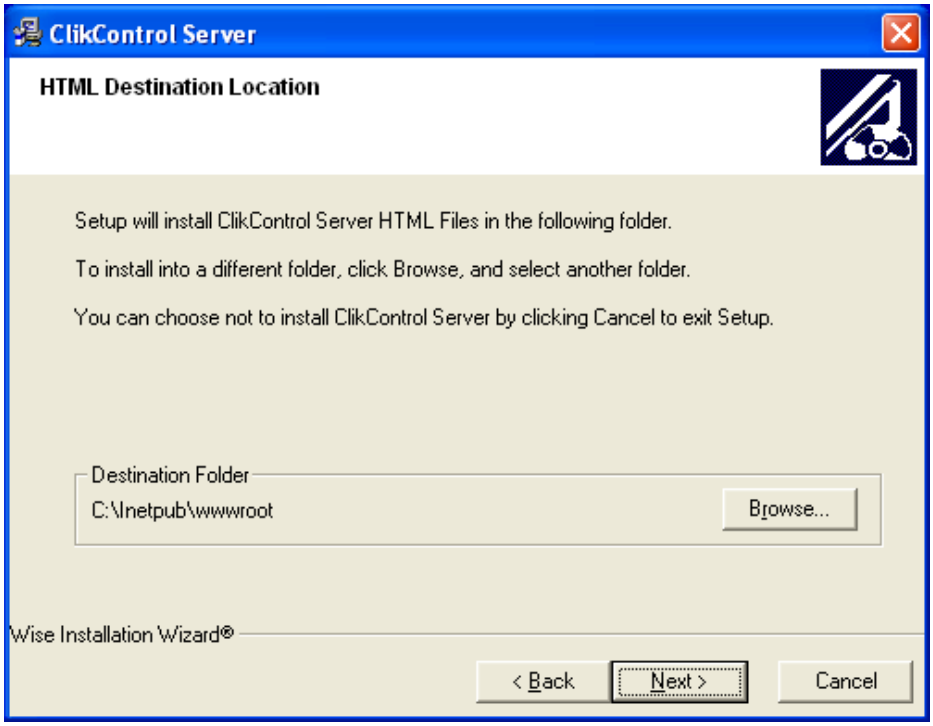


Figure 13 -Clikcontrol HTML Destination Folder

After prompting for the executable directory, you are prompted to supply the directory in which the HTTP server serves out web pages. The installation program creates a **Clikcontrol** directory off this directory into which all the Clikcontrol HTML pages are stored.

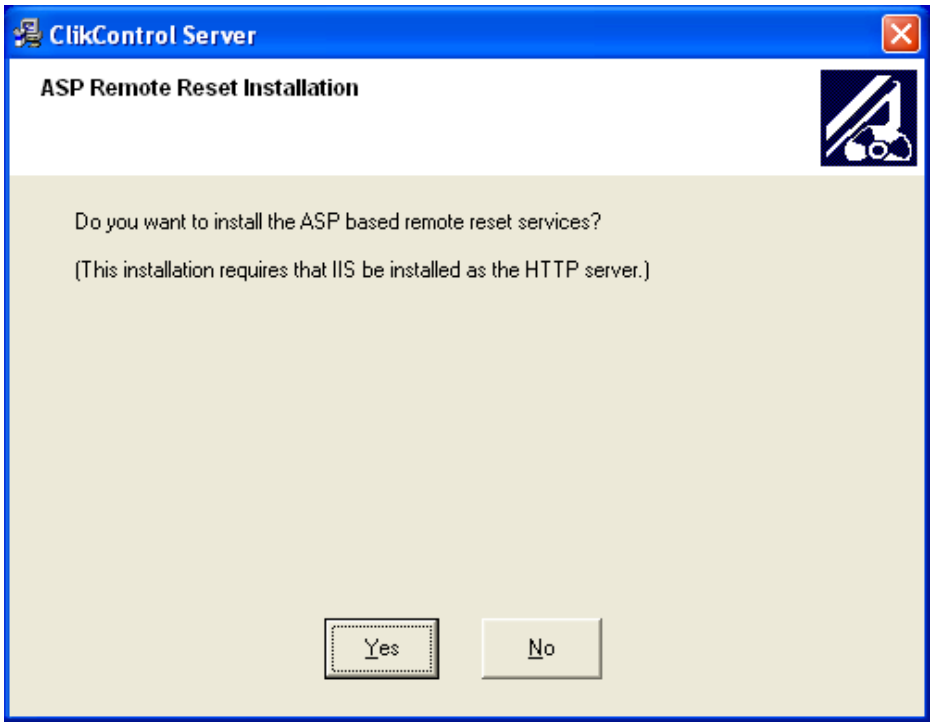


Figure 14 -Clikcontrol ASP Remote Reset Installation Screen

In addition to the standard web pages, the Clikcontrol server can install an ASP page that allows the user to remotely reset the Clikcontrol service on the host machine. The ASP page is installed in the **clikAdmin** directory off the HTTP directory specified previously.
NOTE: The installation program only installs this ASP page if the host machine is configured with the Microsoft IIS HTTP server. The IIS server must already be installed and running on the host machine. (IIS comes standard as part of Windows 2000 Professional or Windows XP professional.)
The ASP pages must be manually installed if you are using a HTTP server such as Apache. See your HTTP server documentation on instructions for installing ASP pages.

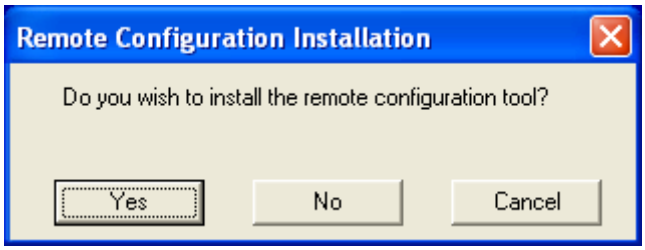


Figure 15 -Clikcontrol Remote Configuration Installation Confirm Screen

After installing the Clikcontrol server, the Clikcontrol PC Setup utility and the optional ASP page, Clikcontrol asks if you want to install the remote configuration utility. The remote configuration utility allows you to configure the Clikcontrol server for use with controllers other than the 3500Pro. (The remote configuration utility is also required if you are going to increase the number of simultaneous users beyond the default of 10.)
The installation of the remote configuration utility is described below.

The installation of the Clikcontrol server is now complete.
The server must now be configured as to what PC resources it will use in its operation. The Clikcontrol PC Setup Utility sets up these parameters.

Clikcontrol Remote Configuration Installation

The remote configuration tool allows you to configure the Clikcontrol server when it is used to interface to controllers such as the PESA Ocelot or Bobcat. The software can be run on the Clikcontrol host machine or may be installed on a remote Windows machine that has network access to the Clikcontrol server.

To install the Configuration program, you must execute the **Clikcontrol Configuration Install.EXE** program on the installation CD. The installation program prompts as follows:

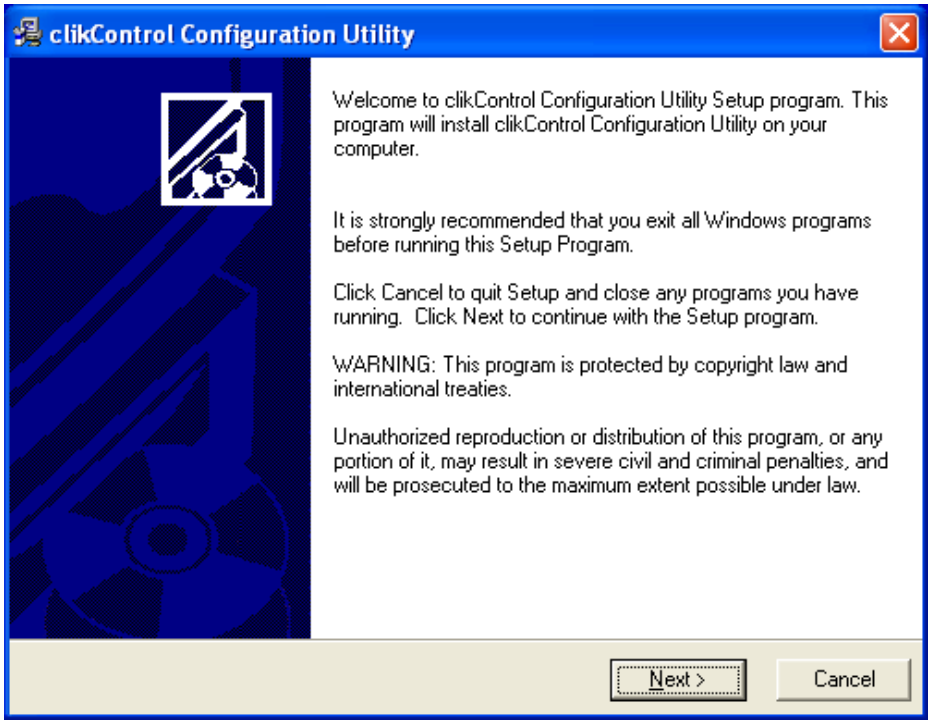


Figure 16 -Clikcontrol Configuration Utility Opening Screen

The installation program welcomes you and indicates that it is advisable to shut down any unnecessary programs.

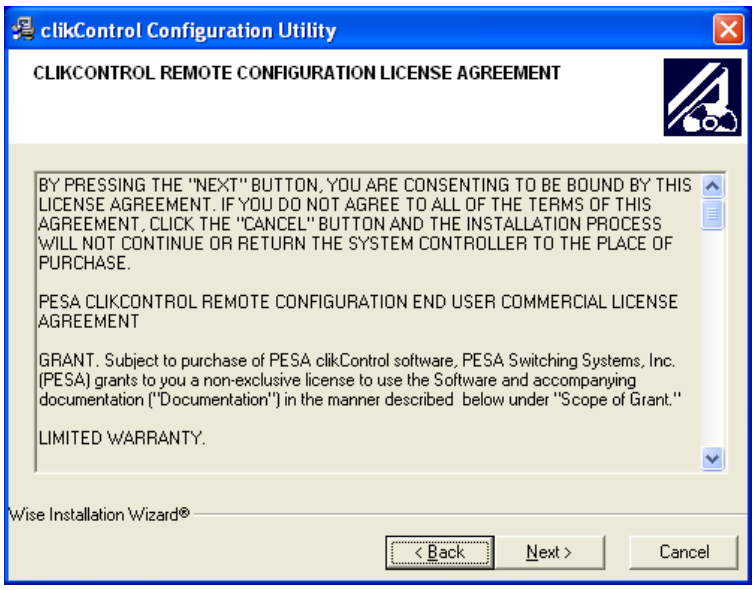


Figure 17 -Clikcontrol Configuration Utility License Agreement Screen

You are next presented with the license agreement for the software. After carefully reading the license agreement, click on the “NEXT” button to continue the installation.

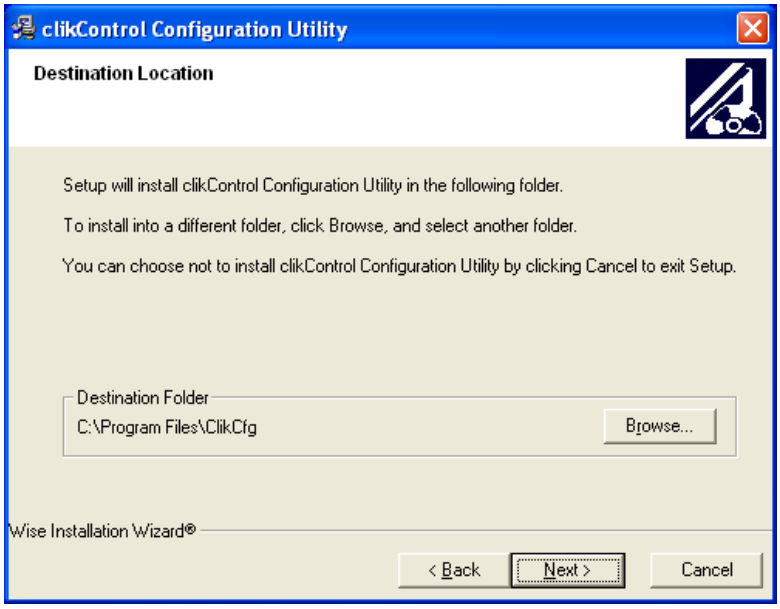


Figure 18 -Clikcontrol Configuration Folder Destination Screen

You are next prompted to provide a directory into which the configuration program is installed.
The installation continues by installing the files required for the configuration program’s operation. Once installed, the program is ready to operate and does not require any pre-configuration.

Chapter 2 – Product Introduction and General Information

General

This section provides general information about Clikcontrol and the components necessary to allow proper operation of the PESA Clikcontrol software programs.

Product Description

Clikcontrol is a TCP/IP-based controller that allows a routing switcher system to be controlled over a LAN or WAN (including the Internet). The Clikcontrol server software resides on a PC running Windows 2000 or XP and utilizes the Microsoft IIS HTTP Server software that comes standard as part of the Windows OS operating system.

Clikcontrol can be used with all PESA equipment employing the CPU Link interface, including:

- 3500PRO or 3500PRO-LE
- Bobcat Routing Switcher System
- LNS-8 Routing Switcher System
- Ocelot Routing Switcher System

Specifications

General

Minimum Hardware Requirements

OS	Windows 2000, XP
Hard drive Space	min 50Mb
Memory	min 128Mb
Ports	RS232
Network	TCP/IP Ethernet Card
Disk	CD Drive

Chapter 3 – Receipt of Clikcontrol and Hardware Requirements

Shipping Damage Inspection

Immediately upon receipt, all shipping containers should be inspected for damage caused in transit. If any damage is noted, save all packing material and contact both PESA and the carrier as soon as possible.

Unpacking

Carefully unpack the equipment and compare the parts received against the packing list and Table 1. If any parts appear to be missing, please contact PESA immediately.

Table 1. Equipment List

Part No. Description	Quantity Required
CD, Clikcontrol Software	1 ea
Manual, Clikcontrol	1 ea

Installation Location

Clikcontrol must be installed on a PC that is connected to the house network that provides external connectivity through TCP/IP and supports HTTP communications. It is beyond the scope of this document to completely define the full implementation of network connections. Setup and configuration of a network should be completed by a qualified network systems administrator who understands web server setup as well as security issues.

Interface Connections

For reasons of personal safety, and to prevent damage to the equipment or cables, the following guidelines should be followed when connecting cables to the server and PESA control hardware.

1. Install the equipment in the area it will reside before connecting cables.
2. All cables should be carefully strain relieved to prevent connector separation.
3. The liberal use of nylon cable ties to secure cables to the rack is encouraged. This will minimize the amount of force transmitted to the equipment and help route cables away from hazardous areas.
4. Route cables away from walk areas to avoid creating a safety hazard.

Network Connector (LAN)

On the back of your server box, locate the connector for Ethernet connections. In most cases, this will be an RJ-45 connector that provides an IEEE 802.3 Ethernet network interface. LAN connections to the network should be installed with a customer-supplied, 100 Ω Unshielded Twisted Pair (UTP) patch cable conforming to ANSI/TIA/EIA-568A (Commercial Building Telecommunications Cabling Standard) Category 3 or higher.

NOTE

The Network System Administrator should be consulted prior to connecting any equipment to the network.

For a typical star-topology Ethernet network, LAN will generally be connected to a multiport repeater (sometimes referred to as a hub or concentrator).

Additional information about computer networks is available on the following web pages:

- Novell's Networking Primer (http://www.novell.com/info/primer/primer.html)
- Novell's Glossary of Networking Terms (http://www.novell.com/info/glossary/glossary.html)

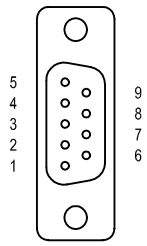
CPU Link Connector

NOTE

The PESA controller is configured to operate at either 9600 or 38400 baud. The Clikcontrol server settings for the serial port on the PC must also be configured to operate at the appropriate speed.

The PC Server you use must have at least one RS-232 connector.

RS-232 Interface: The serial port is connected to the CPU Link connector on the PESA controller with a null modem cable (Part No. 81-9028-0393-0). If necessary, a cable up to 50 feet in length may be fabricated in the field as shown in Figure 20 -RS-232 CPU Link (Null Modem) Cable.



Contact locations when viewed from rear of chassis.

Figure 19 -RS-232 CPU Link Connector (COM 1)

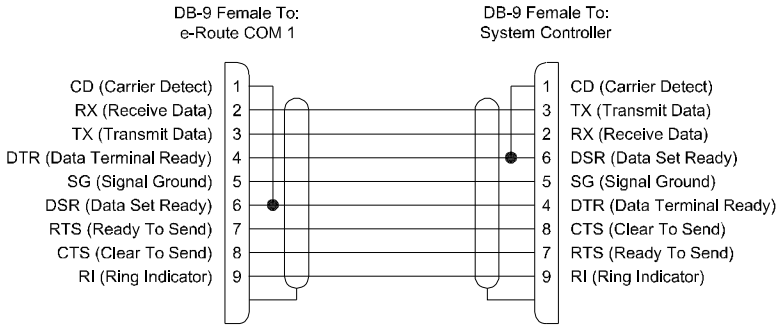


Figure 20 -RS-232 CPU Link (Null Modem) Cable

Chapter 4 – Operations

Clikcontrol Software Installation

The Clikcontrol system has four main software components:

- Clikcontrol Server to be installed customer provided PC.
- The Clikcontrol PC Setup Utility to be installed on the same PC as the Clikcontrol Server,
- Clikcontrol Remote Configuration utility located on one or more Administrator PCs.
- The Clikcontrol Java applet is served from the Clikcontrol controller, and executed by the web browser on one or more Remote Client PCs.

NOTE

The password for the remote client **Administrator** is set to **pesa** prior to shipment. For security purposes, this password should be changed as soon as possible.

NOTE

The PESA Internet Remote Control (PIRC) communications protocol is used between the Clikcontrol PC Server, and the Remote Client executing the Clikcontrol Java applet. This protocol is described in document number 81-9062-0448-0.

The communications protocol used between the Clikcontrol PC Server and the system controller is PESA CPU Link No. 1 with Extensions (P1E). This protocol is described in document number 81-9062-0408-0.

Clikcontrol Remote Configuration Installation

One or more computers attached to the network may be designated as Administrator PCs. (This may be the same PC used for the Clikcontrol Server.) Clikcontrol Remote Configuration is installed on these computers from the included CD as follows:

- Insert the CD in a CD-ROM drive on the Administrator PC, and follow the instructions displayed.

NOTE

All commands are case sensitive and must be entered exactly as shown.

Clikcontrol Server Setup

The Clikcontrol PC Setup Utility allows the user to set the operating parameters of the Clikcontrol server, monitor its operation as a service, and to inspect the log file information.

Main Setup Window

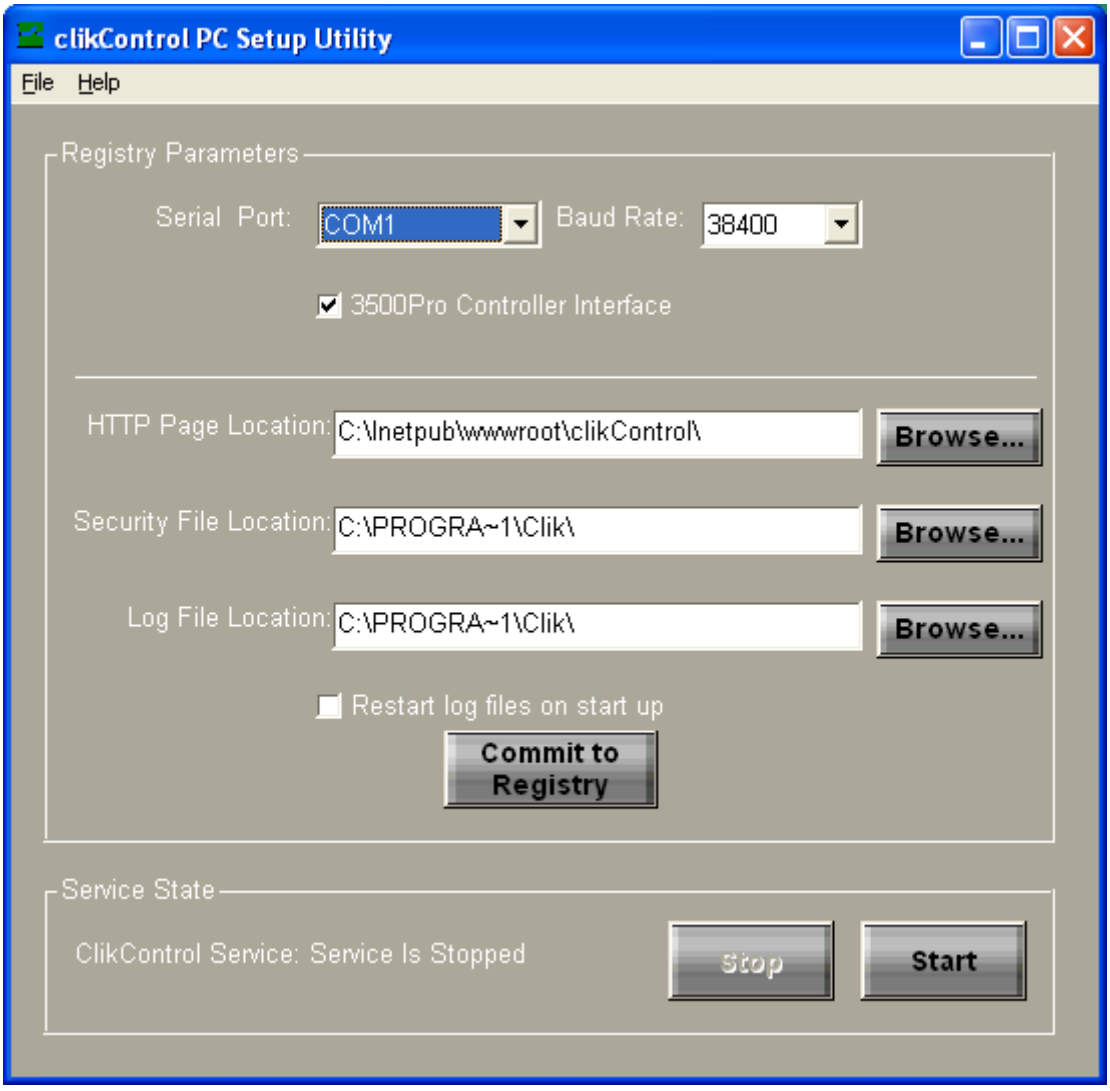


Figure 21 -Clikcontrol PC Setup Utility Window

The main window provides a majority of the information concerning the operation of the Clikcontrol server. The main window consists of two different frames of information.

Registry Parameters

The Registry Parameters indicates to the Clikcontrol server what COM port it uses to communicate to the PESA controller as well as where it expects to find different files.

After the parameters have been committed to the Registry, the Clikcontrol server must be restarted for the parameters to take effect.

Serial Port

This is the COM port that is used to communicate to the PESA routing switch controller.

Baud Rate

This is the baud rate used on the serial link to the controller. Most 3500Pro systems default to 38400 baud. Other controllers like the Ocelot default to 9600 baud.

3500Pro Controller Interface

This indicates to the Clikcontrol server whether or not it is interfacing to a 3500 Pro controller. This indicates what protocol commands the Clikcontrol server will use and whether it will pull the configuration from the controller or expect it to be set via the Clikcontrol Remote Configuration Utility.

HTTP Page Location

This is the location of the directory that is used to store the Clikcontrol HTML pages as well as serve out the JAVA applet to the client PC's. The server stores many of the configuration files that are read by the applet at this location. This should be set to a directory within HTTP server public access.

Security File Location

This is the location of those files that store password and user restriction information for the Clikcontrol Server. This directory defaults to the directory holding the Clikcontrol server executable.

Log File Location

This is the location that Clikcontrol stores its runtime log files. These log files may be helpful in troubleshooting problems that may arise in using the Clikcontrol. This directory defaults to the directory holding the Clikcontrol server executable.

Restart Log Files on Start Up

The Clikcontrol continually writes information out to its log files as events occur in the server. This option allows you to choose to keep the log information over successive restarts or to clean out the log files every time the Clikcontrol service starts up.

Commit to Registry Button

As you change the information in the Registry Parameters frame, the information is not actually committed to the registry. To commit the data, you must activate the Commit to Registry pushbutton.

Service State

The Clikcontrol server runs as a service under the Windows operating system. This frame provides you with the current running state of the service. It also allows you to start or stop the service.

Log File Window

The Log File window shows the different Clikcontrol log files generated by the Clikcontrol server. It is accessible under the File menu of the main window.

The log files generated by the Clikcontrol server are rather cryptic. However, they contain information that can assist you in troubleshooting Clikcontrol problems.

To open the log files, simply click on the open button next to the desired log file.

NOTE: This opens a copy of the current log file in a default text editor. You must close out the file and reopen the log file to get the latest information.

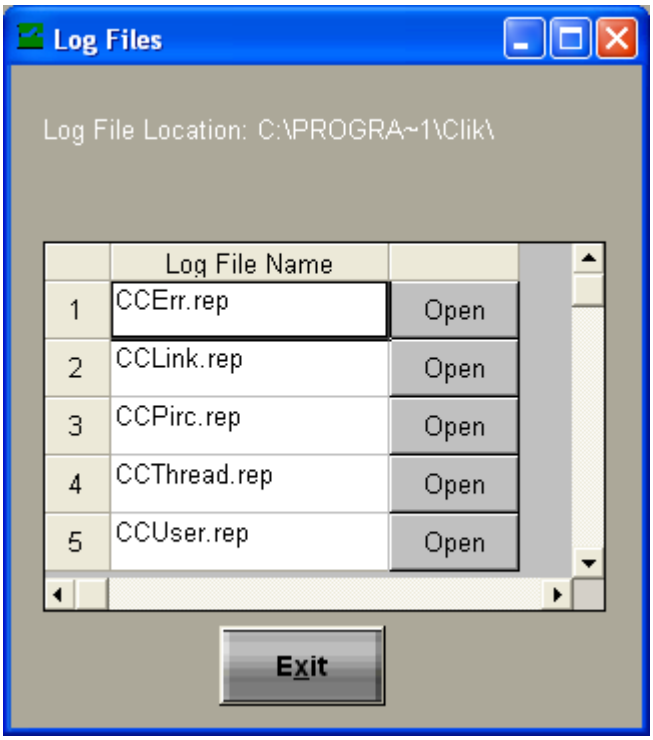


Figure 22 -Clikcontrol Log File Window

Log Files

CCErr.rep

This file includes general errors that are encountered by the Clikcontrol server. This may include configuration file access errors.

CCLink.rep

This file includes errors concerning the serial link interface to the PESA routing Switch controller.

CCPirc.rep

This file includes errors concerning the network interface to the Clikcontrol clients.

CCThread.rep

This file includes information on the internal operation of the server program and information about the configuration of the router that the Clikcontrol controls.

CCUser.rep

This file includes information about which users are logging in and out of the Clikcontrol server.

Clikcontrol Remote Configuration Setup

Clikcontrol Remote Configuration requires no user setup.

Clikcontrol Java Applet Setup

The Clikcontrol Java applet requires no user setup.

Clikcontrol Remote Configuration Operation (Ocelot, Bobcat, LNS-8)

NOTE

THE REMOTE CONFIGURATION PROGRAM IS NOT REQUIRED FOR THE 3500PRO OR 3500PRO-LE SYSTEMS.

Ocelot, Bobcat, LNS-8: These system controllers do not utilize a configuration such as the one used by the 3500PRO. Because of this, Clikcontrol Remote Configuration must be used to manage remote client information. In addition, the source numbers, destination numbers, and level numbers used by Clikcontrol Remote Configuration must correspond to the same numbers used by the system controller.

Clikcontrol Remote Configuration is used to create and modify switching system configurations, and to transfer these configurations between the Administrator PC and the Router controller. When first launched, it will appear as shown in Figure 23

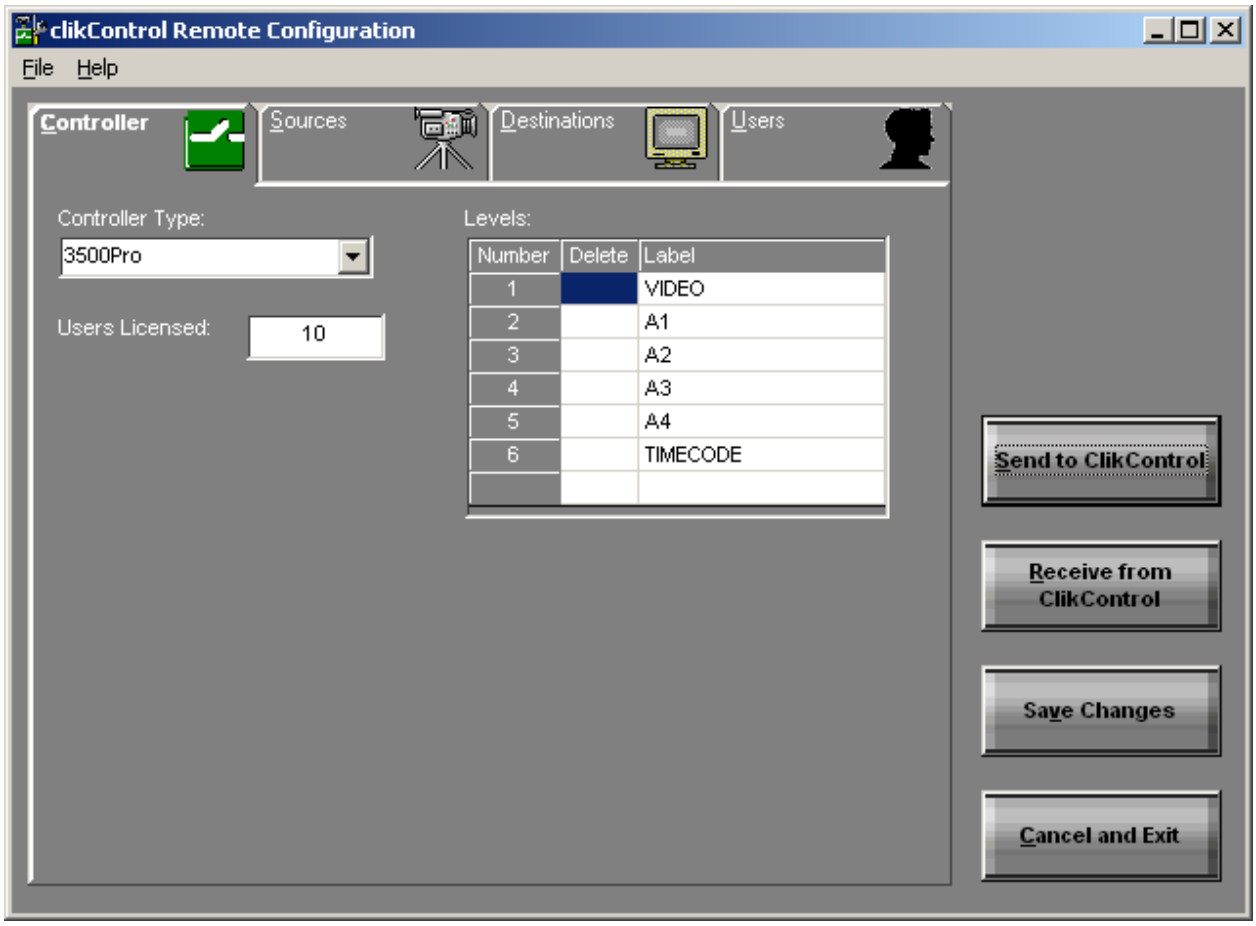


Figure 23 -Clikcontrol Remote Configuration Main Window

Menu Bar

The menu bar presents the following options:

File Menu

- New configuration – Creates a new configuration file.
- Open configuration file – Opens an existing configuration file.
- Save changes – Saves the configuration being edited. If a file name has not been assigned to the current configuration, one will be solicited.
- Save changes as – Allows the current configuration to be saved with a different file name, or saved to a different location.
- Send to Clikcontrol – Uploads the current configuration from the Administrator PC to the Clikcontrol controller.
- Receive from Clikcontrol – Downloads the configuration from a Clikcontrol controller to the Administrator PC.
- Read 3500 Configuration – Imports an existing configuration file created for use with a 3300, 3500 or 3500Plus system controller (*.dat or *.txt).
- Exit – Exits the program. If any changes have been made during the current session, an opportunity will be given to save them.

Help Menu

- Send License Key – This is used to input a new license key in order to authorize additional remote clients. Each Clikcontrol controller is initially supplied with ten licenses. If more are needed, please contact PESA Customer Service.
- About – Gives the Clikcontrol Remote Configuration version number, and pertinent system information.

Shortcut Buttons

These buttons provide shortcuts to the most frequently used menu options.

- Send to Clikcontrol – Uploads the current configuration, along with any changes that have been made, to the Clikcontrol controller.
- Receive from Clikcontrol – Downloads the configuration from a Clikcontrol controller to the Administrator PC.
- Save changes – Saves the configuration being edited. If a file name has not been assigned to the current configuration, one will be solicited.
- Cancel and Exit – Exits the program. If any changes have been made during the current session, an opportunity will be given to save them.

Controller Tab

Under the controller tab, the user can select the controller type and setup the number of levels required. In most cases, the user should only select Ocelot, Bobcat, or LNS8

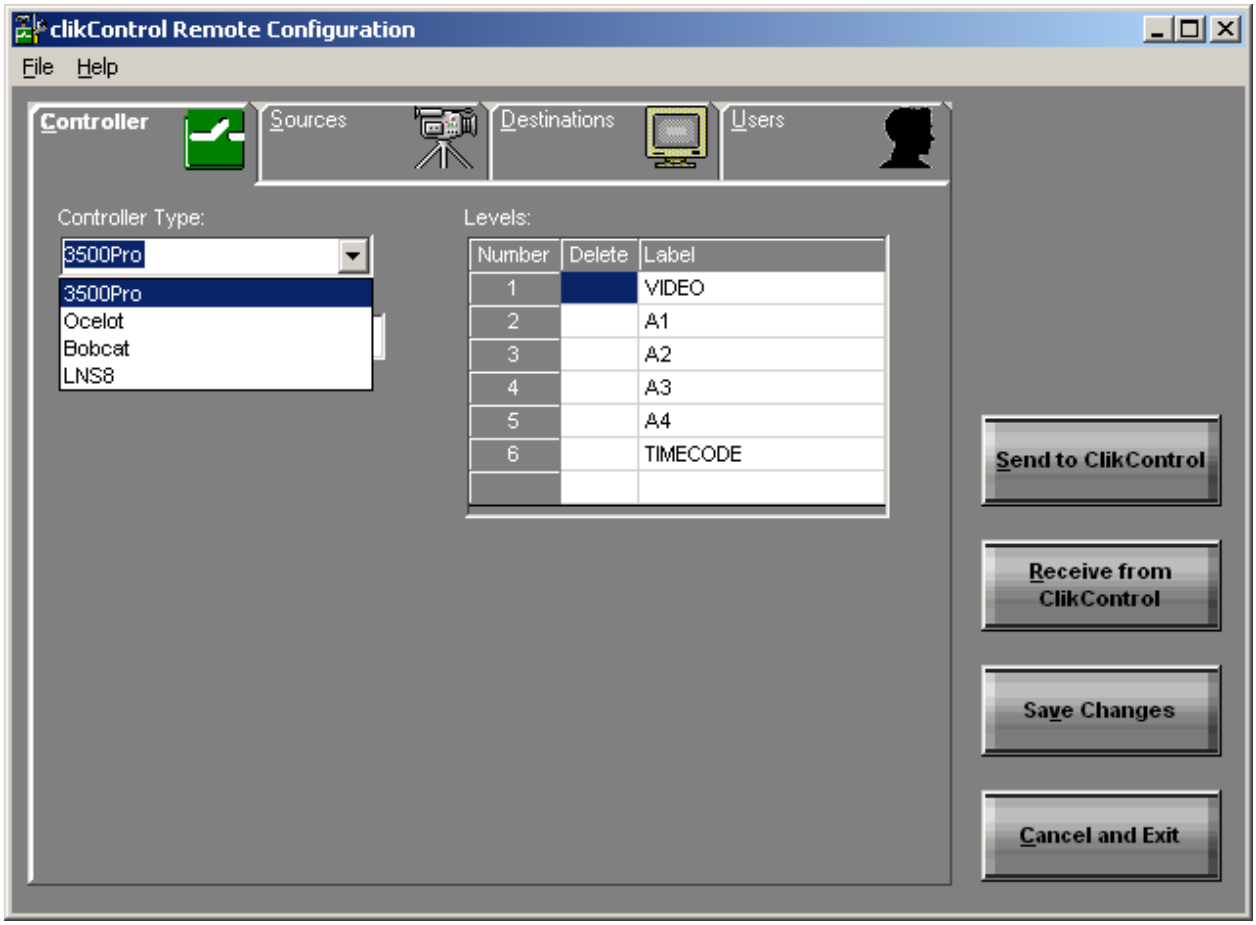


Figure 24 -Clikcontrol Remote Configuration Controller Tab

Controller Type

The Controller Type can be set to one of five classes:

- 3500PRO (Not used when 3500PRO is primary controller)
- Ocelot
- Bobcat
- LNS8

Most PESA equipment compatible with the Clikcontrol controller may be selected from the drop box. However, other equipment may be specified by typing an entry directly in the data field if necessary.

Users Licensed

When a configuration is pulled from a Clikcontrol server, the number of licensed simultaneous users is listed here. (This works with 3500Pro systems even though the configuration is pulled directly from the controller.)

Each Clikcontrol server initially supplied with ten licenses. If more are needed, please contact PESA Customer Service.

Levels

The switching system levels are specified here. These associate with the different matrices configured in a system.

Sources Tab

See Figure 25 for the Sources Tab window. This tab is used to manage sources that are input into the routing matrices. The green check indicates that the source has a signal present on the associated level.

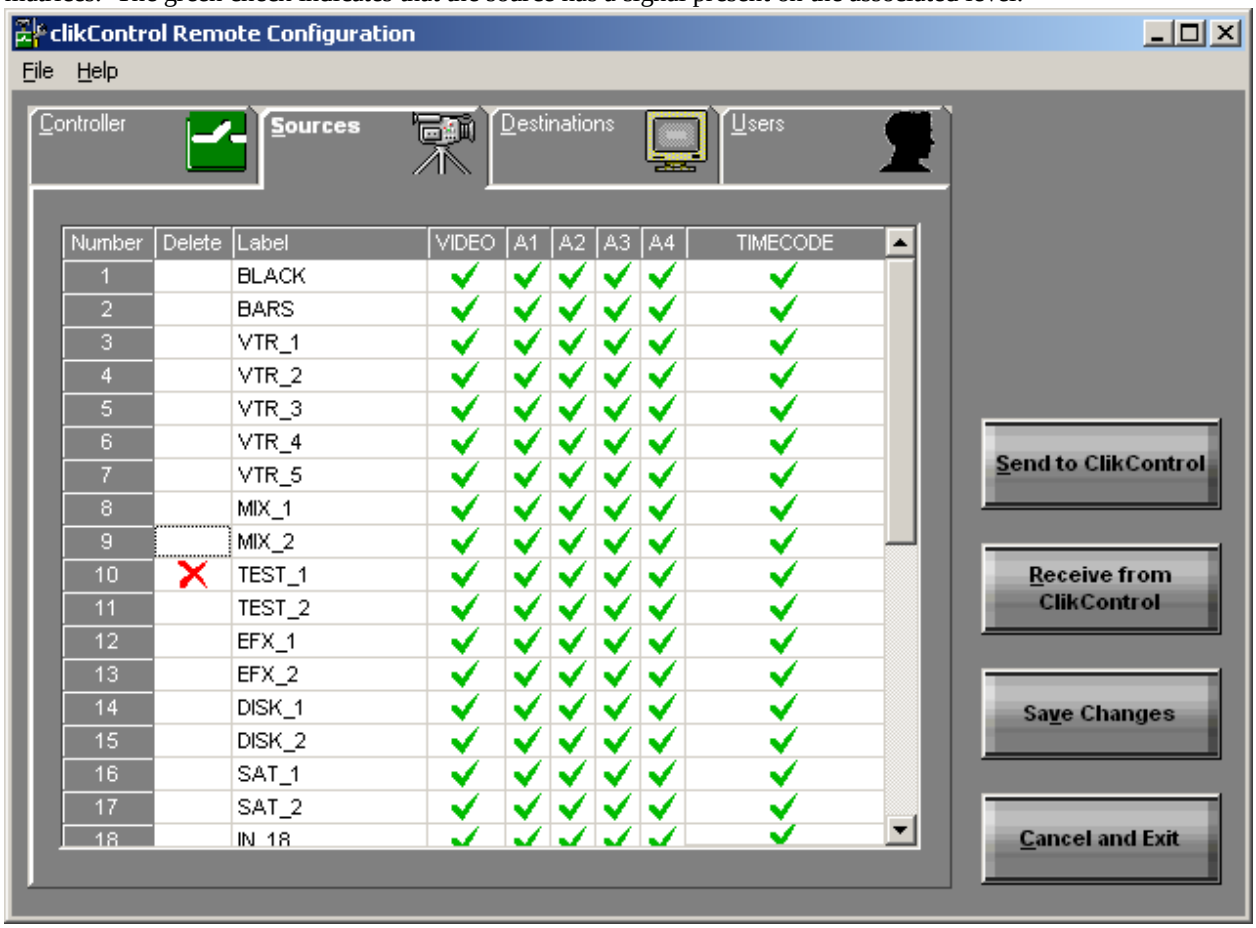


Figure 25 -Clikcontrol Remote Configuration Sources Tab

Destinations Tab

See Figure 26 for the Destinations Tab window. This tab is used to manage destinations that are driven out of the routing matrices. The green check indicates that the destination has a signal present on the associated level.

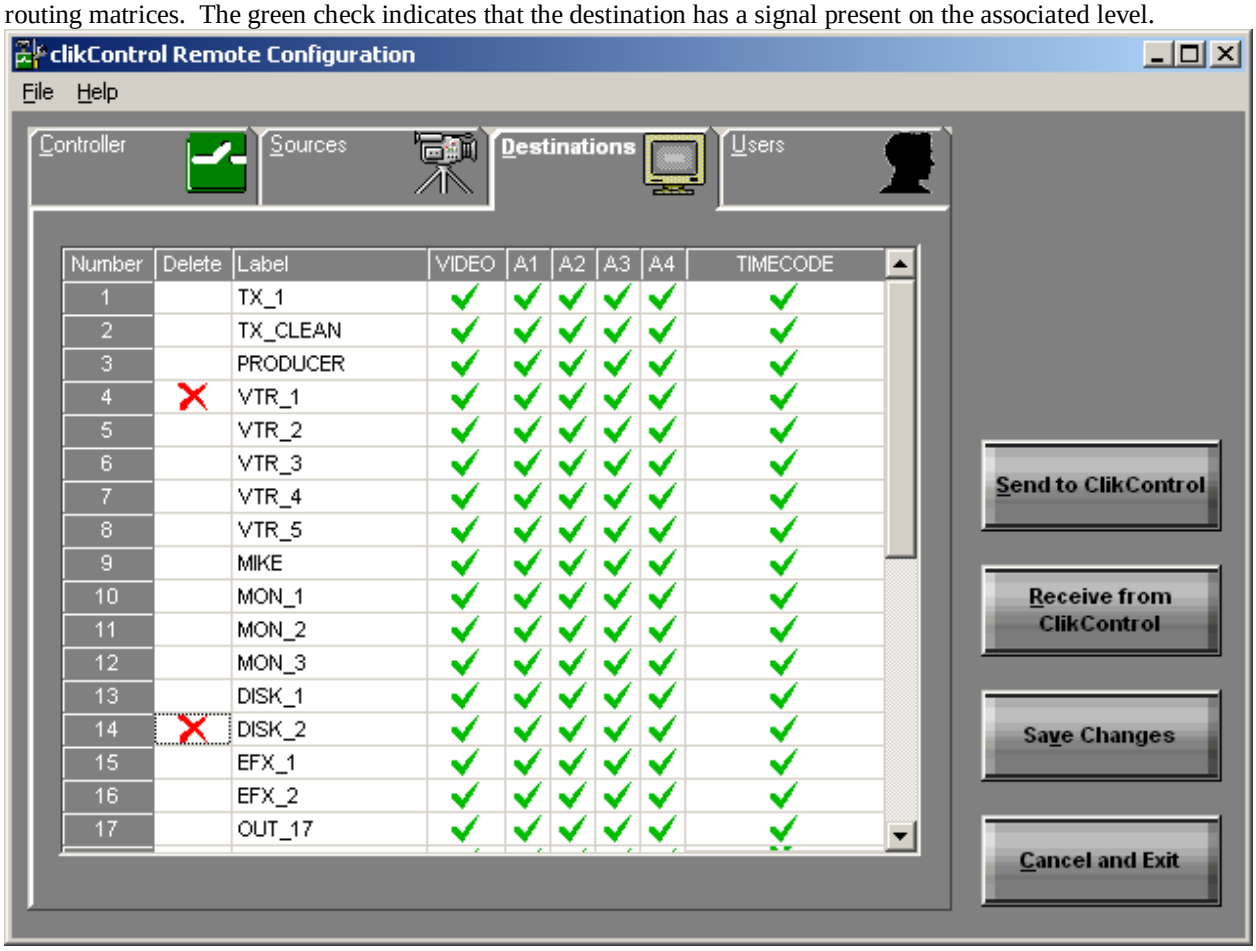


Figure 26 -Clikcontrol Remote Configuration Destinations Tab

Users Tab

See Figure 27 for the Users Tab window. Use this window to manage Remote Client Names and Remote Client Passwords. Access permissions to levels, sources, and destinations are also specified here.

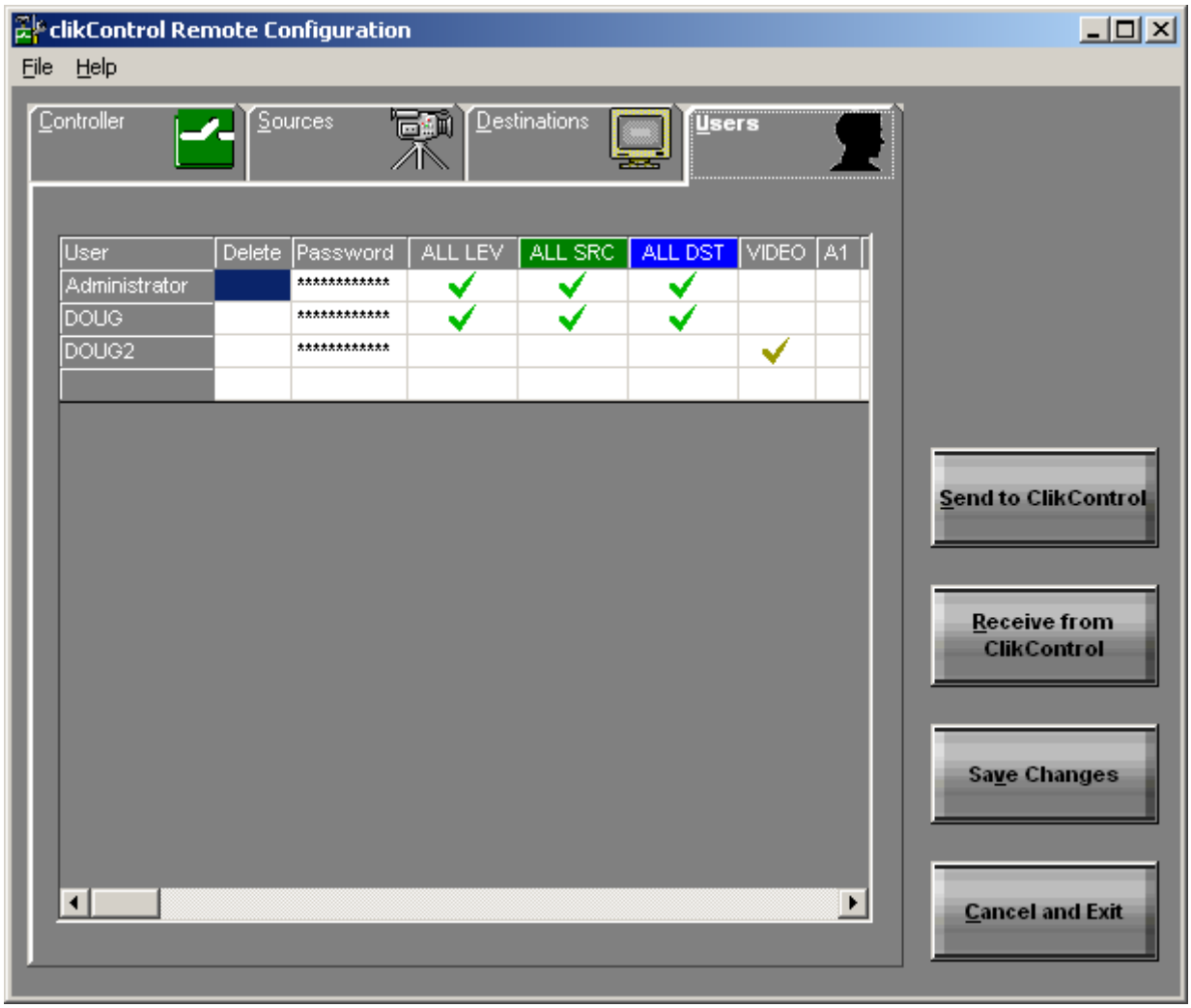


Figure 27 -Clikcontrol Remote Configuration Users Tab

Transfer Configuration to the Clikcontrol Controller from the Clikcontrol Remote Configuration

The configuration currently on the Clikcontrol controller may be transferred to Clikcontrol Remote Configuration as follows:

Open the **File** menu and select **Send to Clikcontrol** to display the log on window shown in Figure 28

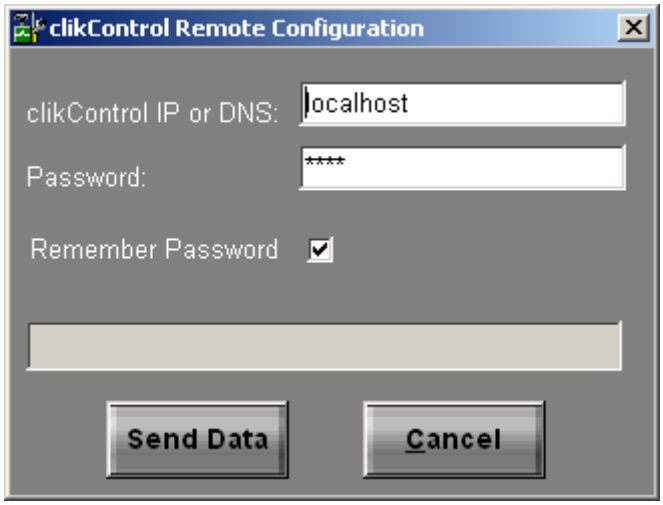


Figure 28 -Clikcontrol Remote Configuration Send Log On Window

1. Enter one of the following in the **Clikcontrol IP or DNS** box:

> **NOTE**
>
> Some networks may be configured so that IP addresses assigned by a DHCP server may expire after a period of inactivity. A new IP address will be assigned when the Clikcontrol controller becomes active again. If you are unsure of whiter your network uses static IP or DHCP, consult your IT representative for assistance. PESA recommends static IP addresses whenever possible.

- The DHCP IP Address _____
- The Static IP Address _____
- The DNS Name _____

2. Clikcontrol Remote Configuration connects with the Clikcontrol controller by using the Remote Client name **Administrator**. Enter the current password for the remote client **Administrator** in the **Password** box.

> **NOTE**
>
> All remote client names and passwords are case sensitive.

3. Click the **Send Data** button. The configuration is then transferred to the Clikcontrol Server.

4. Click the **Receive Data** button. The configuration on the Clikcontrol controller will then be transferred to Clikcontrol Remote Configuration.

Clikcontrol Java Applet Operation

NOTE

The following Microsoft software must be installed on windows based Client PC's:

Microsoft Internet Explorer v5.0 or higher

Microsoft Virtual Machine v5.00.3802 or higher

Sun Microsystems JAVA2 Plugin V1.4.2 or higher

Web Browser Version Verification/Upgrade

Clikcontrol requires the use of Microsoft Internet Explorer v5.0 or higher. To obtain the latest version, direct your browser to http://www.microsoft.com/windows/IE/.

Virtual Machine Version Verification/Upgrade

Clikcontrol requires the use of Microsoft Virtual Machine v5.00.3802 or higher. To determine the version currently in use, check the properties of the file named jit.dll. To obtain the latest version, direct your browser to http://www.microsoft.com/java/.

Connecting to the Clikcontrol Controller

The Remote Client PC is connected to the Clikcontrol controller by pointing a web browser to the URL of the Clikcontrol controller.

The web page shown in Figure 29 will be displayed.

Figure 29 -Clikcontrol Java Applet Opening Window

NOTE

All remote client names and passwords are case sensitive.

Logging In to the Clikcontrol Controller

Click on the "**Clikcontrol Server**" hyperlink shown in Figure 29 to display the login window shown in Figure 30

Figure 30 -Clikcontrol Java Applet User Login

Name and Password must be one of those created by Clikcontrol Administrator (see "Users Tab" in Figure 27 -Clikcontrol Remote Configuration Users Tab" and transferred to the Clikcontrol controller.

Java Applet Main Window Operation

Most users will need to install the Java 2 plugin in order to run applets that include Swing components. The Java 2 plugin has been included on the Clikcontrol Utilities CDROM. It can also be downloaded from the canonical java website, http://sun.java.com.

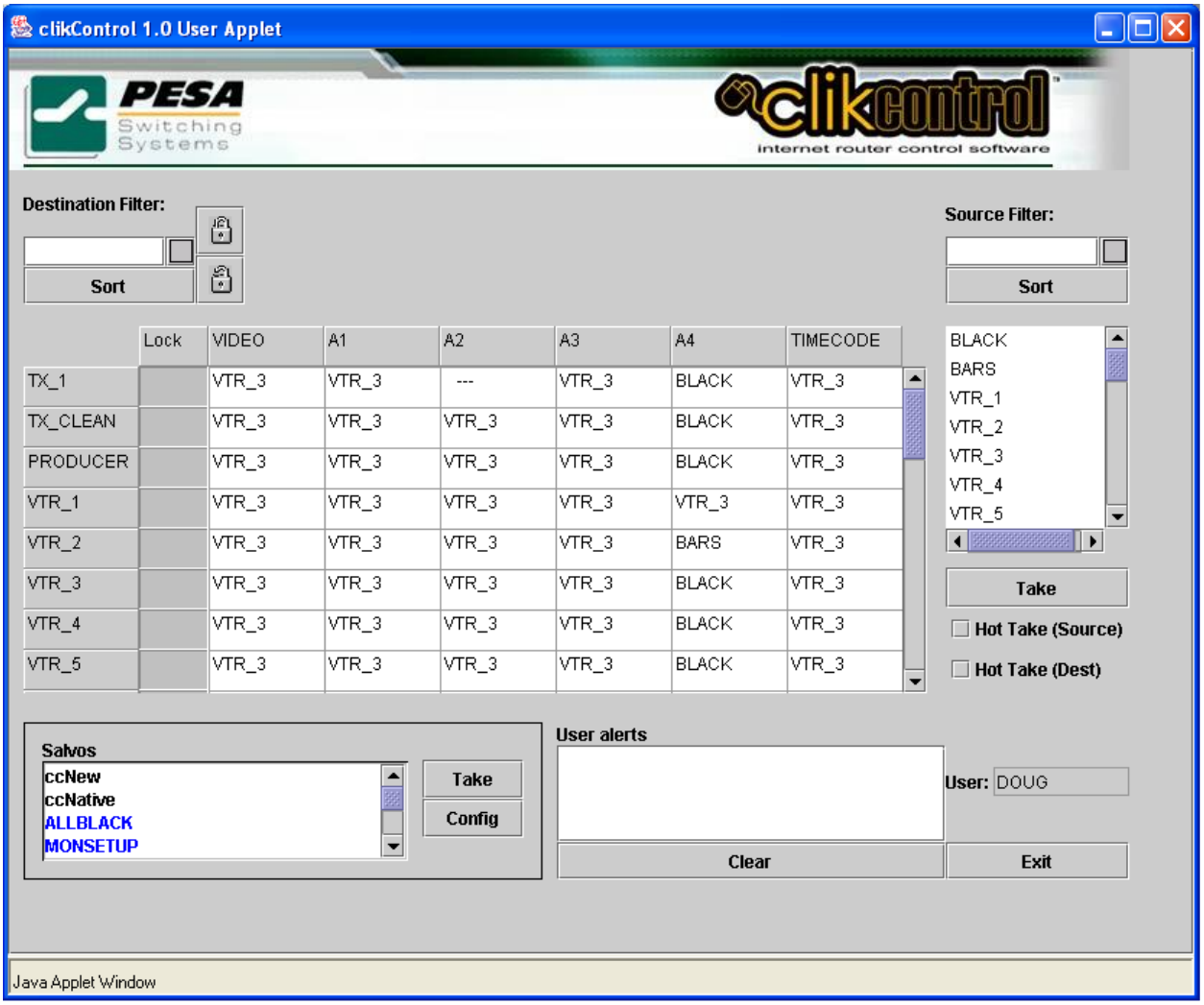


Figure 31 -Clikcontrol Java Applet Main Window

The Status Block

The status block displays which sources are switched to the displayed destinations and levels. Here is a screen shot of the status block with an explanation of its major features:

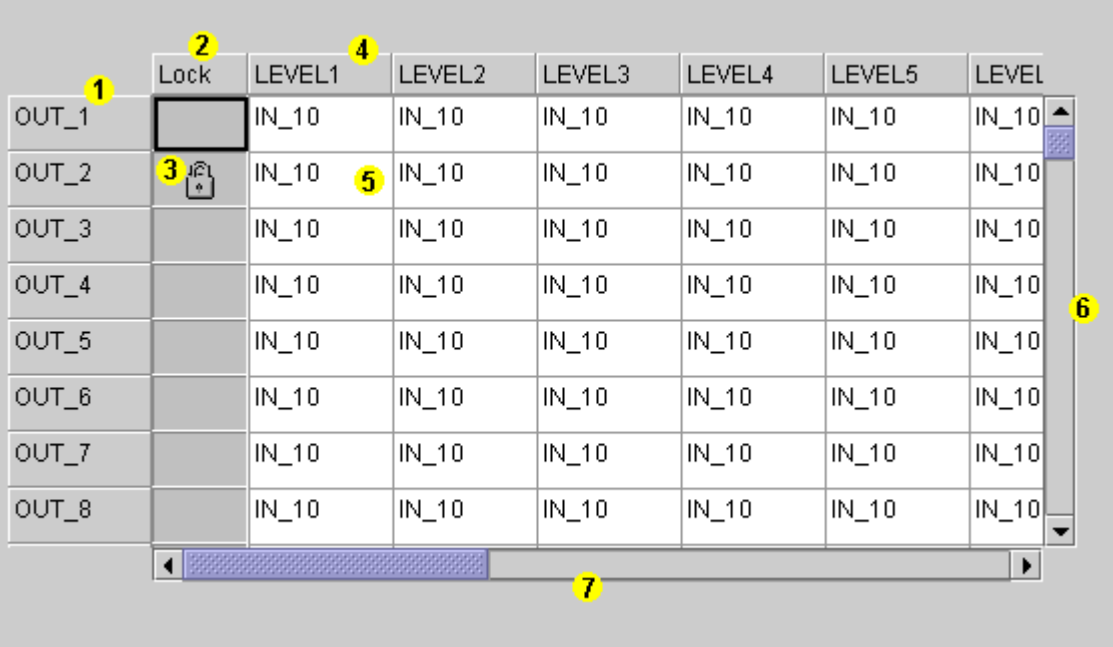


Figure 32 -Clikcontrol Main Window – Status Block

1. **Destination Column**

   This column shows which destinations are displayed in the status window. Only destinations which the user has privileges to see will be displayed.

2. **Lock Column**

   This column shows the lock status of the destinations, which are displayed.

3. **Locked Destination**

   If a destination is locked, this icon appears in the Lock column

4. **Level Status Columns**

   The source switched to each level on a destination is displayed in these columns. Only levels which the user has privileges to see will be displayed.

5. **Source On A Destination And Level**

   This block shows the source IN_10 switched to level LEVEL1 on destination OUT_2. Only sources which the user has privileges to see will be displayed.

6. **Destination Scroll Bar**

   This scroll bar allows the user to scroll up and down the destinations column and display different destinations. The scroll bar may or may not be displayed, depending on the number of destinations on the system, or the size of the screen.

7. **Level Scroll Bar**

This scroll bar allows the user to scroll the level columns back and forth, displaying different levels. The scroll bar may or may not be displayed, depending on the number of levels on the system, or the size of the screen.

The Destination Block

The Destination block contains controls that can be used to sort, filter, and lock destinations. Here is a screen shot of the Destination block with explanations of its major features:

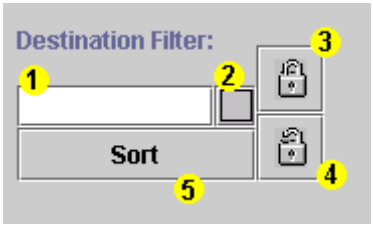


Figure 33-Clikcontrol Main Window – Destination Block

1. **Filter Text Field**

   Only destinations containing or starting with the text entered in the filter box will be displayed when the Filter Toggle button is selected.

2. **Filter Toggle Button**

   Filters the destinations displayed using the text in the Filter text field. If no text is entered in the Filter text field, all destinations are filtered out (i.e. no destinations will be displayed). When selected, the filter button icon changes from an empty square to a crosshatched square.

3. **Lock Destination Button**

   Selecting this button will cause all selected destinations to be locked.

4. **Unlock Destination Button**

   Selecting this button causes all selected destinations to be unlocked.

5. **Sort Button**

   This sorts the destination rows in alphabetical order of the destination names. The button darkens when it is depressed. When not depressed, destinations are displayed in router order.

The Source Block

The Source block contains controls that can be used to sort, filter, and select a source to be switched to a destination. Here is a screen shot of the Source block with explanations of its major features:

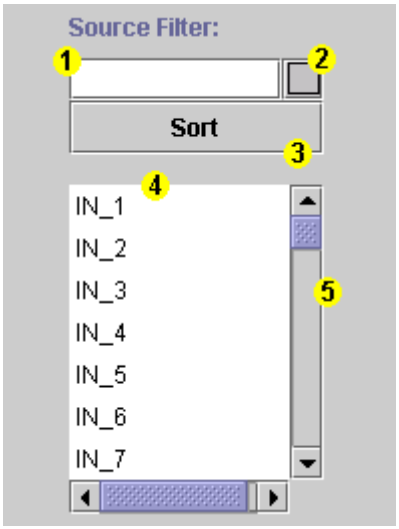


Figure 34-Clikcontrol Main Window – Source Block

1. **Filter Text Field**

   Only sources containing or starting with the text entered in the filter box will be displayed when the Filter Toggle button is selected.

2. **Filter Toggle Button**

   Filters the sources displayed using the text in the Filter text field. If no text is entered in the Filter text field, all sources are filtered out (i.e. no sources will be displayed). When selected, the filter button icon changes from an empty square to a crosshatched square.

3. **Sort Button**

   This sorts the source rows in alphabetical order of the source names. The button darkens when it is depressed. When not depressed, sources are displayed in router order.

4. **Source List**

   This is the list of sources a user may access. Only one source may be selected at a time.

5. **Source List Scroll Bar**

   This scroll bar allows the user to scroll the list of sources up and down, exposing more of the sources on the list.

The Take Block

The Take block contains controls that allow the user to switch sources to destinations. Here is a screen shot of the take block with explanations of its major features:

Figure 35-Clikcontrol Main Window – Take Block

1. **Take Button**

   This button switches the selected source to the selected destination(s).

2. **Hot Take (Source) Checkbox**

   This checkbox, when selected, causes the selected destinations to be switched every time a new source is selected, without the "Take" button being pressed.

3. **Hot Take (Dest) Checkbox**

   This checkbox, when selected, causes the current source to be switched to the selected destination(s) every time a new destination(s) are selected, without the "Take" button being pressed.

The Salvo Block

The Salvo Block contains controls that allow the user to create, modify, display, and take salvoes. Salvoes that are read from a 3500Pro controller are available for display and execution only. Clikcontrol salvoes may be displayed, modified, and executed if the user has privileges to do so. Here is a screen shot of the Salvo block with explanations of its major features:

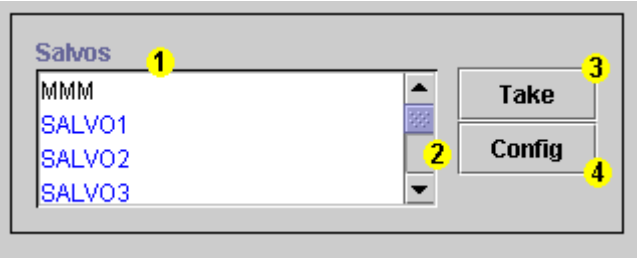


Figure 36-Clikcontrol Main Window – Salvo Block

1. **Salvo List**

   The salvo that the user wishes to take or configure can be selected from this list. The names of salvoes displayed in black are the names of Clikcontrol salvoes; the names of salvoes displayed in blue are 3500Pro salvoes.

2. **Salvo List Scroll Bar**

   This scroll bar allows the user to scroll up and down the salvo list, exposing more of the salvoes on the list.

3. **Salvo Take Button**

   This button takes the selected salvo.

4. **Salvo Config Button**

   This button displays the Salvo Configuration screen with the selected salvo displayed for configuration.

The Alert Block

The Alert block contains controls that display warning and alert messages to the user. Here is a screen shot of the Alert block with explanations of its major features:

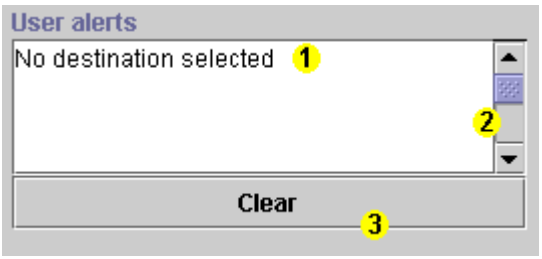


Figure 37-Clikcontrol Main Window – Alert Block

1. **Alert Text Area**

   This text area displays the alert messages logged by the Clikcontrol applet.

2. **Alert Text Area Scroll Bar**

   This scroll bar allows the user to scroll the text area up and down, exposing all alerts logged by the Clikcontrol applet.

3. **Clear Button**

   This button clears all alerts from the text area. Once cleared, the alerts cannot be retrieved.

The Exit Block

The Exit block contains the Exit button, and the Username text field. Here is a screen shot of the Exit block:

Figure 38-Clikcontrol Main Window – Exit Block

Pressing the Exit button causes the user to be logged off the Clikcontrol, and the Clikcontrol applet to exit. The text field titled "User:" contains the username of the current user.

Java Applet Salvo Window Operation

Configuration and creation of Clikcontrol salvoes is made possible by the Salvo Configuration Interface. This interface is accessed through the "Config" button in the Salvo Block of the Clikcontrol interface window. To configure an existing salvo, the user simply selects the desired salvo, then presses the "Config" button. To create a new Salvo, the user may press the "Config" button with no salvo selected. A small dialog will appear, prompting the user to key in the name of the new salvo. This will create a new, empty salvo, which the user may then configure. To create a salvo that already contains destinations, the user simply highlights the desired destinations and then presses the "Config" button. The salvo name dialog will appear, and after a new unique name is chosen for the salvo, the new salvo will appear in the salvo configuration window with the chosen destinations in the same state as they were in when chosen.

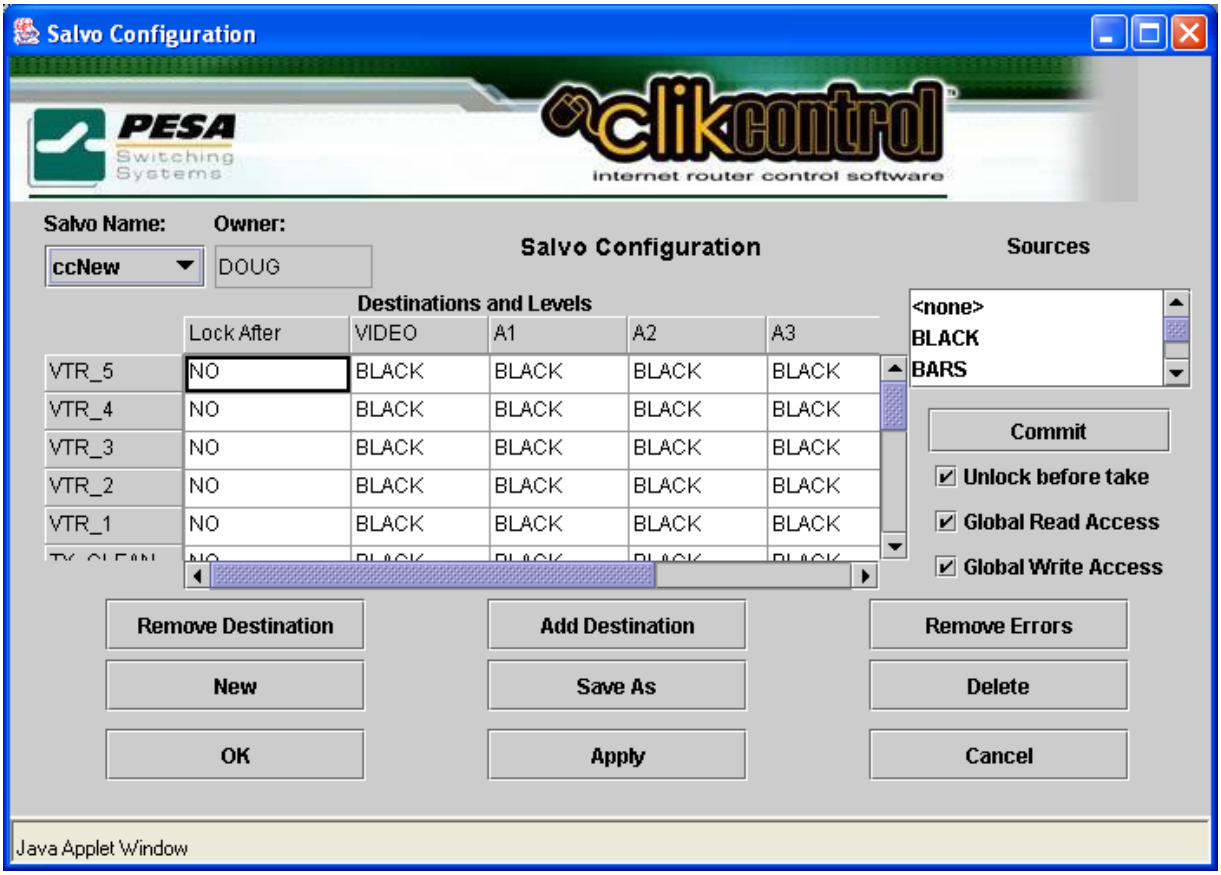


Figure 39-Clikcontrol Java Applet Salvo Window

The Name Block

The Name block contains the name of the salvo being configured, and the name of the owner of the salvo. The salvo name is in a pull-down selection box that will display all of the salvoes the user has privileges to see. The active salvo may be changed by selecting any of the salvoes from this pull-down. Below is a screen shot of the Name Block with descriptions of its major components:

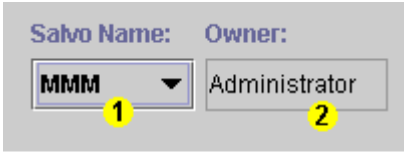


Figure 40-Clikcontrol Salvo Window – Name Block

1. **Salvo Selection Pull down**

   This control displays the name of the active salvo. The active salvo displayed in the Salvo Configuration screen may be changed by selecting a different salvo from this control.

2. **Salvo Owner Name**

   This text field contains the name of the salvo's owner. The owner of a salvo always has privileges to view and edit the salvo.

The Salvo Destination Block

The Salvo Destination Block shows the destinations that are to be switched when the salvo is taken, and what sources are to be switched to what levels on each destination. It also shows whether the destination is to be locked after the salvo is taken. Below is a screen shot of the Salvo Destination block with descriptions of its major components:

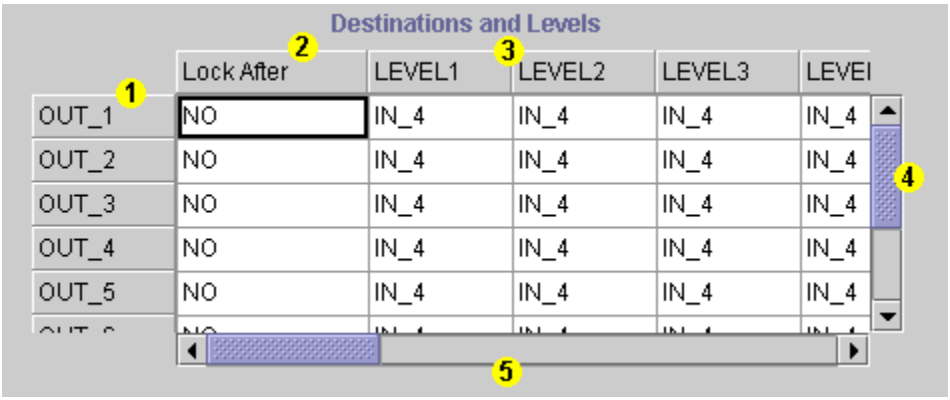


Figure 41-Clikcontrol Salvo Window – Salvo Destination Block

1. **Destination Column**

   This column displays the names of the destinations to be switched when the salvo is taken.

2. **Lock After Column**

   This column displays the lock state of the destination after the salvo has been taken. Clicking in this column will toggle the state for a destination.

3. **Level Columns**

   These columns display which sources will be switched to each level on a destination. The source named "<none>" denotes no switch is to be made on a destination and level.

4. **Destination Scroll Bar**

   This scroll bar allows the user to scroll up and down the destinations column and display different destinations. The scroll bar may or may not be displayed, depending on the number of destinations in the salvo, or the size of the screen.

5. **Level Column Scroll Bar**

   This scroll bar allows the user to scroll the level columns back and forth, displaying different levels. The scroll bar may or may not be displayed, depending on the number of levels on the system, or the size of the screen.

The Source Block

The Source Block contains the list of sources that the user has permission to use, and the Commit button, which will update the selected destinations and levels of the current salvo with the selected source. Below is a screen shot of the Source Block with and explanation of its major components:

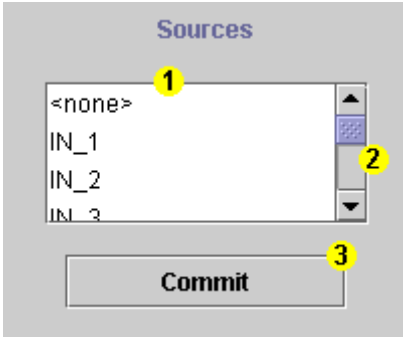


Figure 42-Clikcontrol Salvo Window – Source Block

1. **Source List**

   The Source list lists all sources that the user has privileges to use. The special source "<none>" may be placed on any level of any destination. It denotes that no switch is to occur on the destination and level when the salvo is taken.

2. **Source List Scroll Bar**

   This scroll bar allows the user to scroll the list of sources up and down, exposing more of the sources on the list.

3. **Commit Button**

   This button commits the selected source to the selected destinations and levels.

The Privileges Block

The Privileges Block shows what access privileges the user has been given for the active salvo. It also contains the checkbox used to denote whether or not destinations in the salvo should be unlocked before the salvo is taken. Below is a screen shot of the Privileges block with explanations of its major components:

Figure 43-Clikcontrol Salvo Window – Privileges Block

1. **Unlock Before Take Checkbox**

   This checkbox should be selected if the owner wants the destinations in the salvo to be unlocked before the salvo is taken. Checking this checkbox will cause the Clikcontrol to attempt to unlock a destination before attempting a switch. If the destination is left locked, the specified switch will not occur on the destination. By default, it is unchecked.

2. **Global Read Access Checkbox**

   This checkbox should be checked if the owner wants all users on the Clikcontrol to be able to read and take this salvo. By default, it is checked.

3. **Global Write Access Checkbox**

   This checkbox should be checked if the owner wants all users on the Clikcontrol to be able to change this salvo. By default, it is checked.

The Edit Controls Block

This block contains all the controls used to create, delete, and edit salvoes. Below is a screen shot of the Edit Controls Block, with explanations of its major components:

Figure 44-Clikcontrol Salvo Window – Edit Controls Block

1. **Remove Destination Button**

   Pressing this button will remove the selected destinations from the salvo.

2. **Add Destination Button**

   Pressing this button will cause a small popup menu to appear. The user may select the desired destinations, and they will be added to the salvo with the source "<none>" on each level.

3. **Remove Errors Button**

   If changes are made to names of sources or destinations on the controller that is being controlled by the Clikcontrol, salvoes defined for the previous controller configuration can have errors. These errors will be highlighted in red. Pressing the Remove Errors button will cause all erroneous destinations to be removed, and all erroneous sources to be changed to "<none>".

4. **New Button**

   Pressing this button will clear the salvo configuration window and prompt for the name of the new salvo. When a new unique salvo name is entered, the new salvo will be displayed in the window. The user may then configure the new salvo.

5. **Save As Button**

   Pressing this button will cause a prompt for a new salvo name to appear. After the user enters a new unique salvo name, the current salvo will be copied and displayed on the salvo configuration screen. The user may then change the salvo's configuration. It is important to note that the new salvo will not be saved until the user presses the "OK" or "Apply" buttons.

6. **Delete Button**

   Pressing this button will cause the current salvo to be deleted.

7. **OK Button**

   Pressing this button will cause any changes that have been made to a salvo to be committed, and the salvo configuration window to close. Edits to existing salvoes, as well as newly created salvoes, will be saved.

8. **Apply Button**

This button also causes changes to salvoes to be committed, but does not close the salvo configuration window.

9. **Cancel Button**

   Pressing this button will cause any current changes to a salvo to be discarded, and the salvo configuration window to close.

Step-by-Step Instructions for Taking a Source to a Destination Using the Clikcontrol Java Applet User Interface

The following is a quick demonstration of how to use the Clikcontrol Java Applet User Interface to take a selected source to a selected destination.

Step 1: Select the Desired Source

Position the mouse pointer over the desired source and click once. Use the scroll bar to locate the desired source if necessary. The selected source will become highlighted.

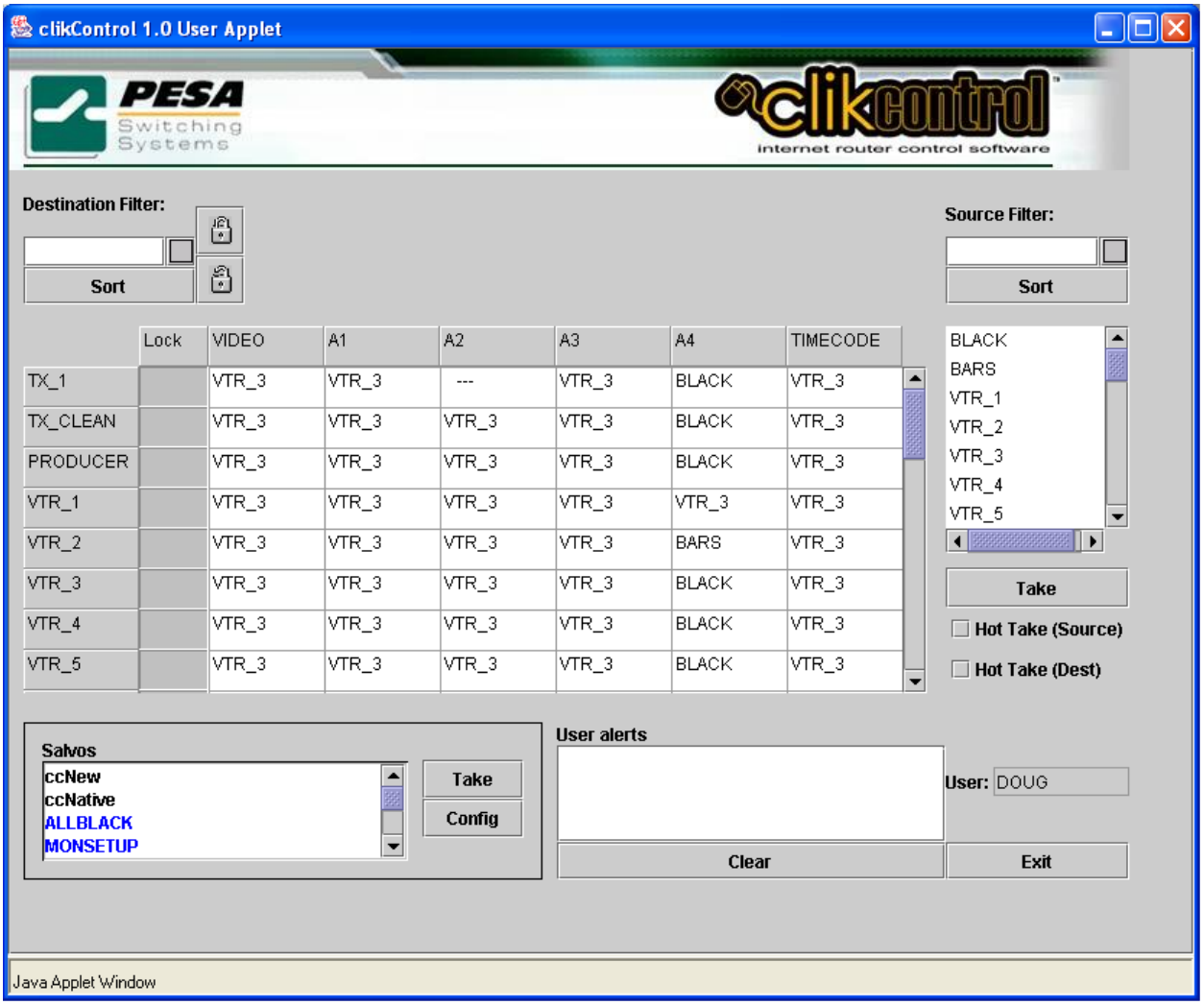


Figure 45-Clikcontrol Take Switch – Select Source

Step 2: Select the Desired Destination(s).

Position the mouse pointer over the desired destination and click once. Clicking on the destination name will highlight all levels on the destination, regardless of whether they are visible or not. Levels the user does not have privileges to view will not be changed. Holding the "Ctrl" key down will allow the addition of more destinations. In the example pictured below, the destination VTR_1 has been selected, as well as levels VIDEO, A1, A2, A3, and A4 on the destination VTR_3.

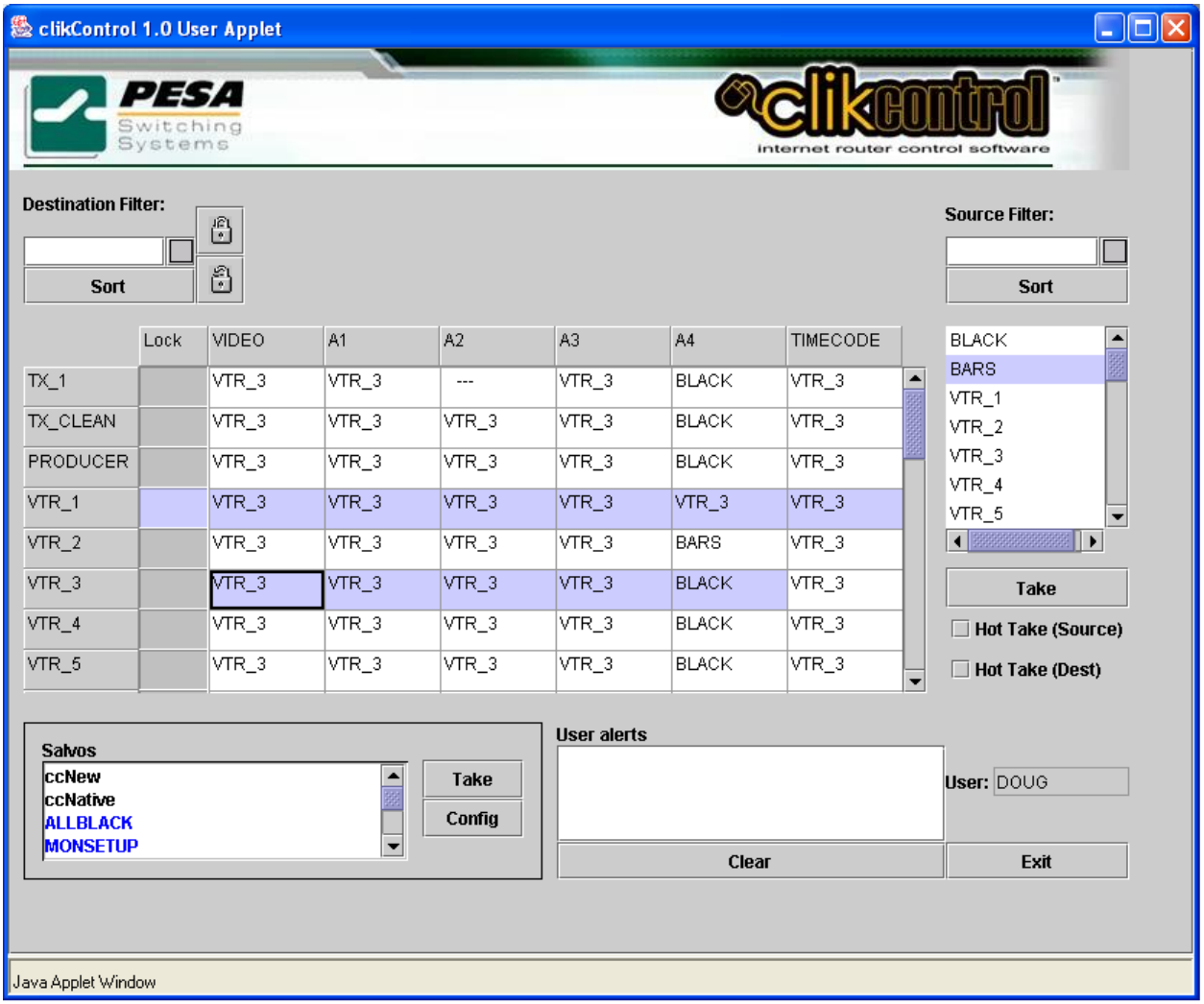


Figure 46-Clikcontrol Take Switch – Select Destination(s)

Step 3: Press the "Take" Button.

Position the mouse pointer over the "Take" button and click once.

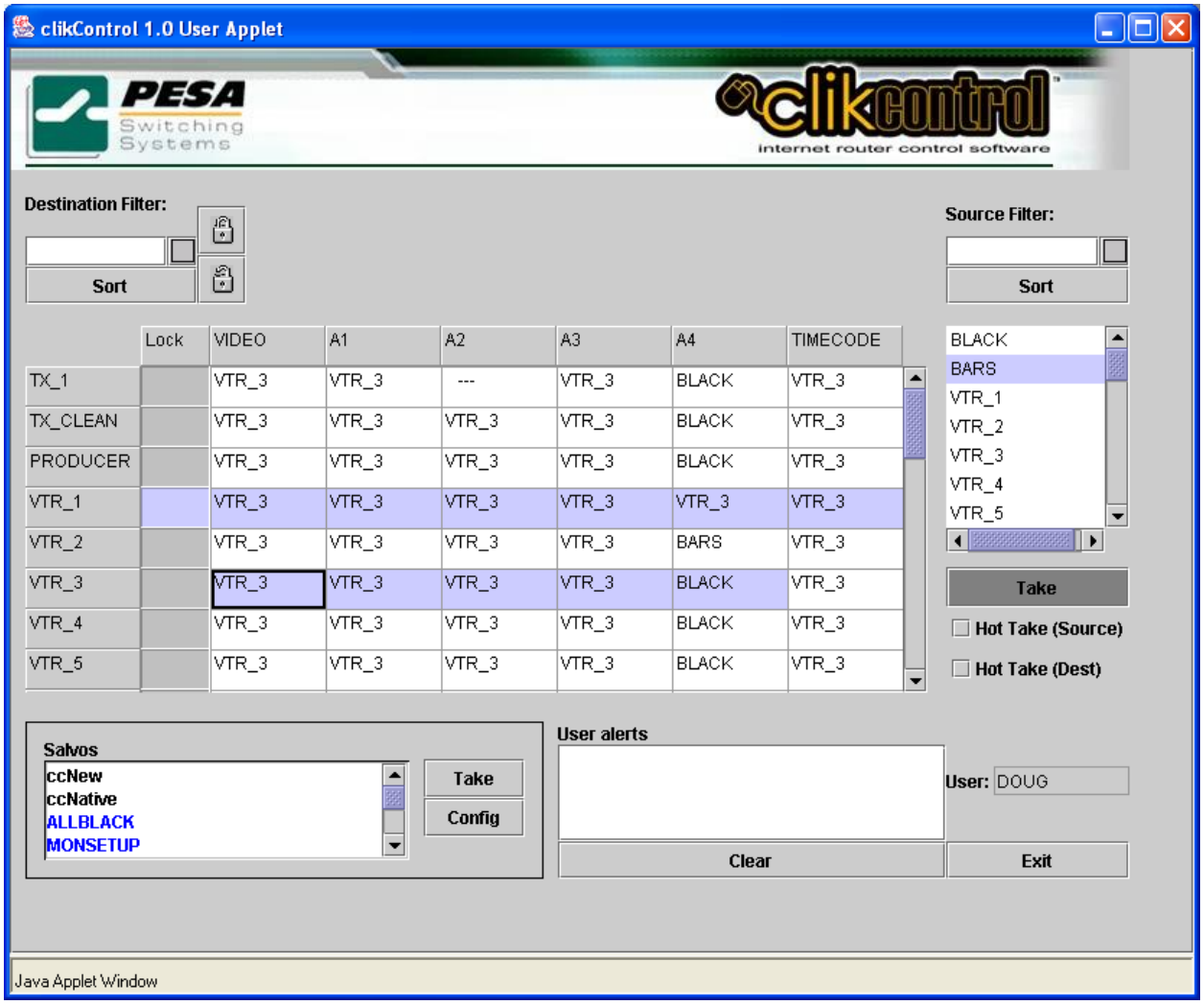


Figure 47-Clikcontrol Take Switch – Press Take

Step 4: The Destinations Are Updated by the Clikcontrol.

As seen the example pictured below, the selected destinations are updated to the new source by the Clikcontrol applet.

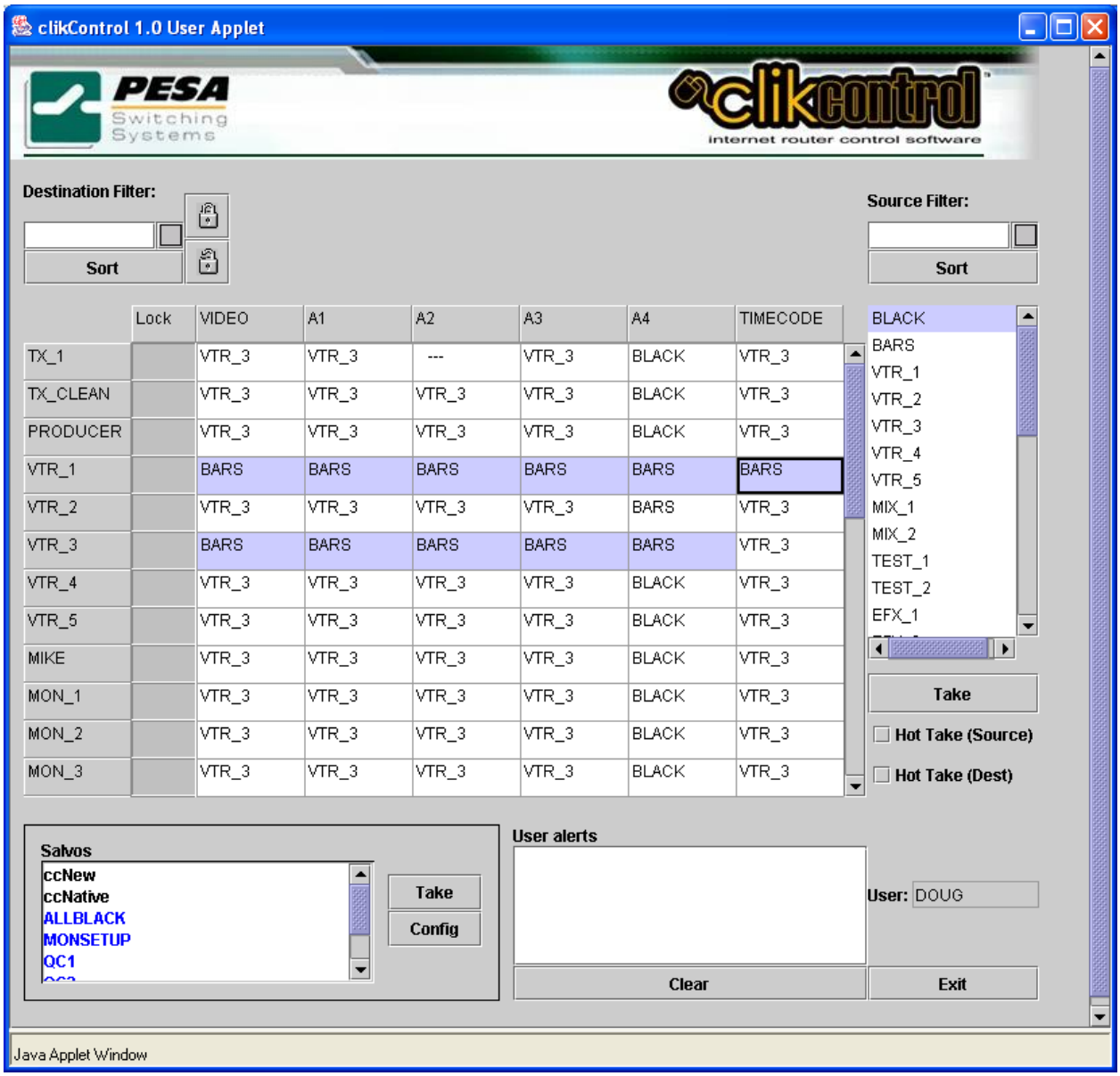


Figure 48-Clikcontrol Take Switch – Destinations Updated

Step-by-Step Instructions for Taking a Salvo Using the Clikcontrol Java Applet Interface

The following is a quick demonstration of how to use the Clikcontrol Java Applet User Interface to take a selected source to a selected destination.

Step 1: Select the Desired Salvo

Position the mouse pointer over the desired salvo and click once. The selected salvo will become highlighted.

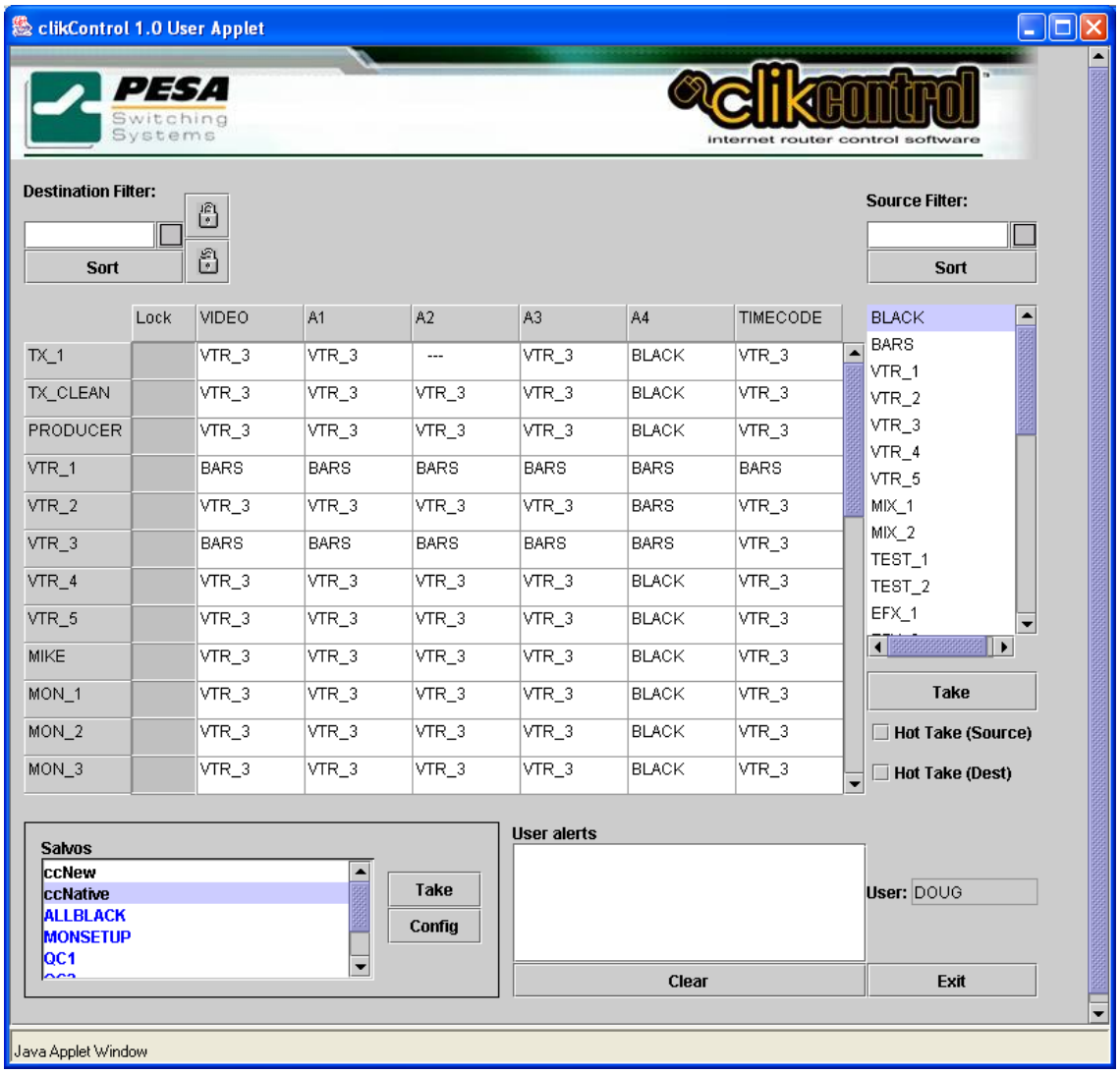


Figure 49-Clikcontrol Take Salvo – Select Salvo

Step 2: Press the "Take" Button in the Salvo Block.

Position the mouse pointer over the "Take" button in the Salvo block and click once. The salvo is taken by the Clikcontrol and the new status is updated by the Clikcontrol applet.

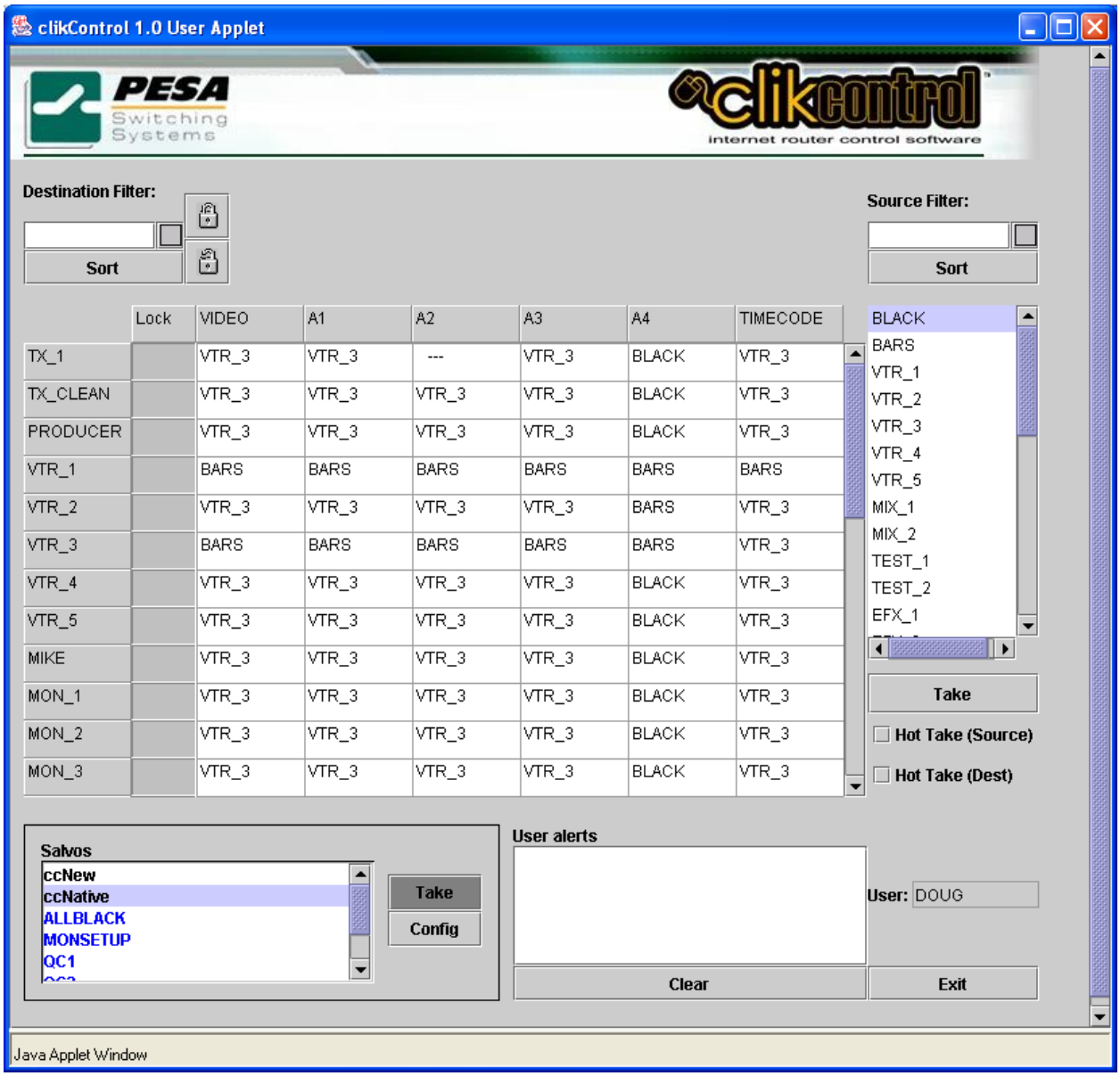


Figure 50-Clikcontrol Take Salvo – Press Salvo Take

Clikcontrol Remote Reset Operation

If installed, the remote reset page provides the means of stopping and starting the Clikcontrol service. The service is available via web browser equipped to handle ASP pages.

The page is installed in the clikAdmin virtual directory configured on an IIS HHTP server. The page is accessed by typing the URL:

<machine name>/clikAdmin/services.asp

Before the page is accessed, the user is prompted to enter their **Windows account name** and **password**. (This is a Windows related feature and does not have anything to do with the Clikcontrol user accounts.)

Figure 51-Clikcontrol Remote Reset – Windows Login

After successfully logging into the ASP page, the user is provided with the status of the Clikcontrol service. By clicking on the operating state, the user can toggle the running state of the Clikcontrol service.

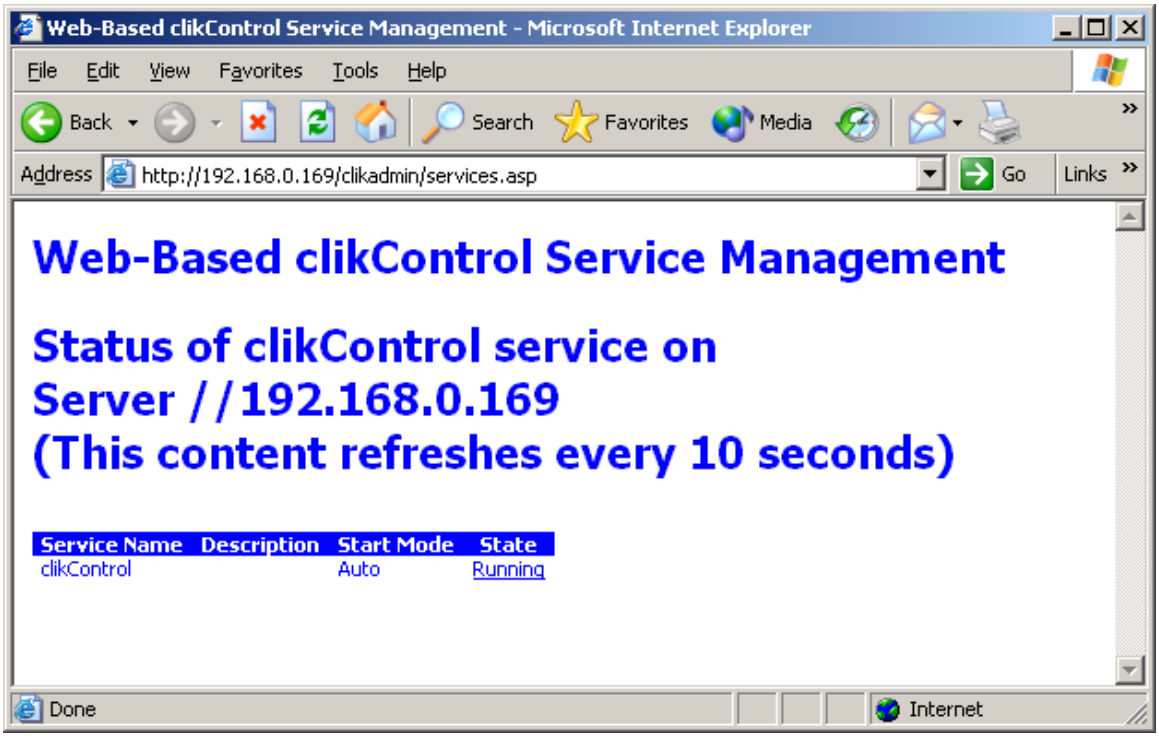


Figure 52-Clikcontrol Remote Reset – Services ASP Page

PESA