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PC Programming Manual

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CHAPTER 1 *Introduction*

PC Programming, referred to as PCPro, is an application used to manage the SV8100 system. PCPro is rich with features to help users more easily manage a chassis when compared to handset programming.

The user can perform the following when using PCPro:

- ❑ Upload/Download settings between PCPro and a chassis.
- ❑ Save settings to files that can be archived for later use.
- ❑ Program settings grouped by their relationship via standard screens.
- ❑ Program settings sequentially via Wizards to complete a feature.
- ❑ Generate reports that can be used to monitor settings.
- ❑ Automatically update chassis firmware remotely.
- ❑ Export settings to files for later use.
- ❑ Capture low level messages to problem solve through the Debug Terminal.

-- NOTES --

CHAPTER 2 *Installation*

SECTION 1 SYSTEM REQUIREMENTS

The process of installing PCPro is straight-forward. Just run the installation program and follow the instructions. Table 2-1 System Requirements lists the minimum system requirements necessary for install PCPro on your computer.

Table 2-1 System Requirements

CPU	Pentium® III 598 MHz (minimum) Pentium 4 2.5 GHz (recommended)
Memory	128 MB of RAM 256 MB (recommended)
OS	Windows XP, Vista, Windows 7 (32/64bit)
Other	Microsoft Internet Explorer 6.0
Communication port	LAN, RS232 or Modem
Disk Space	25MB for PCPro (minimum)
TCP Port	PCPro must have TCP port 8000 open between the chassis and the host PC. Communications between PCPro and the chassis occurs on this port when uploading / downloading via LAN. The PCPro TCP port is 8000 at default, but this can be changed through the Administration>WebPro Settings section of WebPro using PRG 90-38-02. PRG 90-38-02 is not accessible from telephone programming or PCPro. TCP port 5963 is required to be open if the Debug Terminal is going to be used.

SECTION 2 DEFAULT PCPRO ACCOUNTS

When installing PCPro for the first time, the installation program creates a set of default PCPro accounts. The accounts with the user name and password to access these accounts are provided in Table 2-2 Default PCPro Accounts.

Table 2-2 Default PCPro Accounts

User Name	Password	Access Level
necii	47544	Manufacturer Mode (MF)
tech	12345678	Installer Mode (IN)
ADMIN1	0000	System Administrator Mode 1 (SA)
ADMIN2	9999	System Administrator Mode 2 (SB)

*An install/uninstall **does not** remove or modify any existing PCPro Accounts, or Connection Accounts.*

In addition, the installation program will create the following default folders:

Table 2-3 Default Folders

Folder Name/Icon	Location	Description
My Databases	<install dir>\databases	Default folder where PCPro databases are saved.
DebugTerm	<install dir>\logfiles	Default folder where PCPro Debug Terminal log files are saved.
Reports	<install dir>\reports	Default folder where PCPro reports are saved.
exports	<install dir>\exports	Default folder where PCPro exported files are saved.

*An install/uninstall **does not** result in the folder or any files in the folder being deleted.*

SECTION 3 SOFTWARE INSTALLATION

The software can be installed from the application CD, provided with the chassis or downloaded from the web.

1. Launch the installer.

   If installing from a CD, the CD should autorun. When the splash screen is displayed, select **Install Software**.

   *If the software does not autorun, you can open the CD and select **setup.exe**.*

   If downloading from the website, copy the file to your computer and launch the installer.

2. When the installer launches, the InstallShield Wizard Welcome screen is displayed. Press **Next>**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

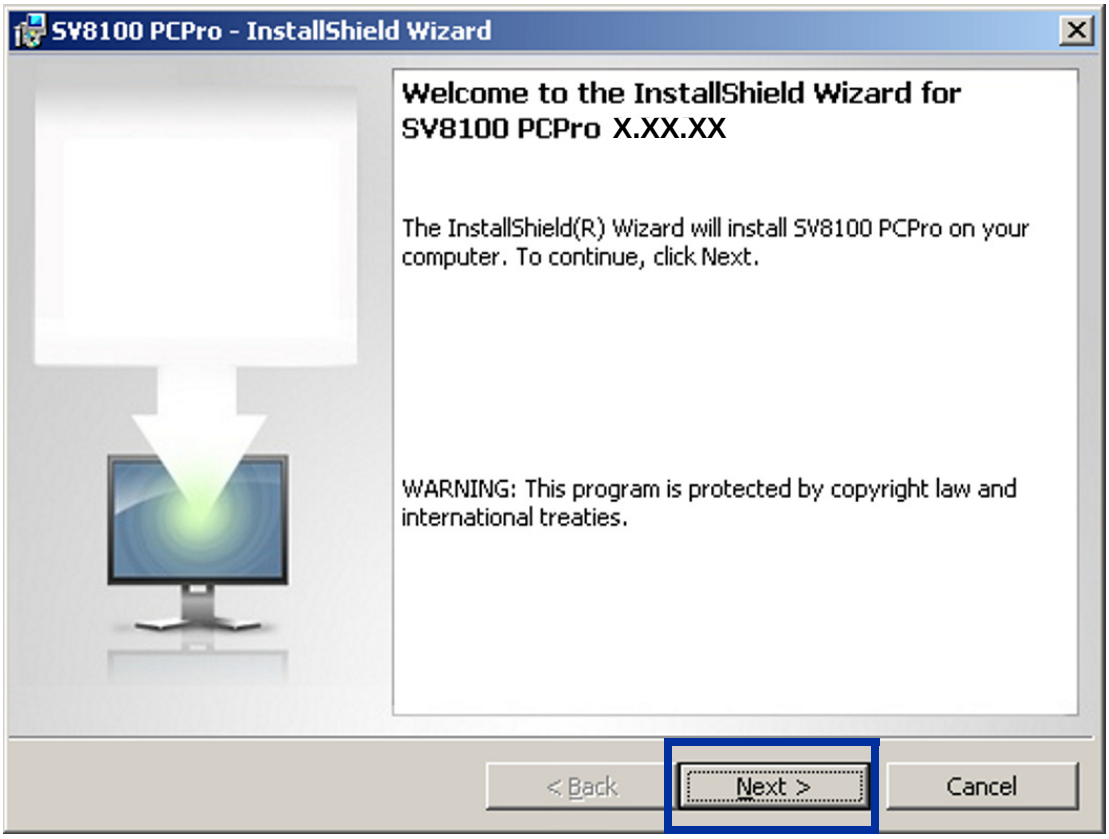


Figure 2-1 InstallShield Wizard Welcome Screen

3. The next screen is displayed indicating the default location where the files reside on your computer.

   If the default location is where you want the files located, click **Next>**. Refer to Figure 2-2 InstallShield Wizard Destination Folder (Default Location).

   If you want to change the location where the files are located, click **Change**. Refer to Figure 2-3 InstallShield Wizard Destination Folder (Change Location).

   If you wish to return to the previous screen, click **<Back**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

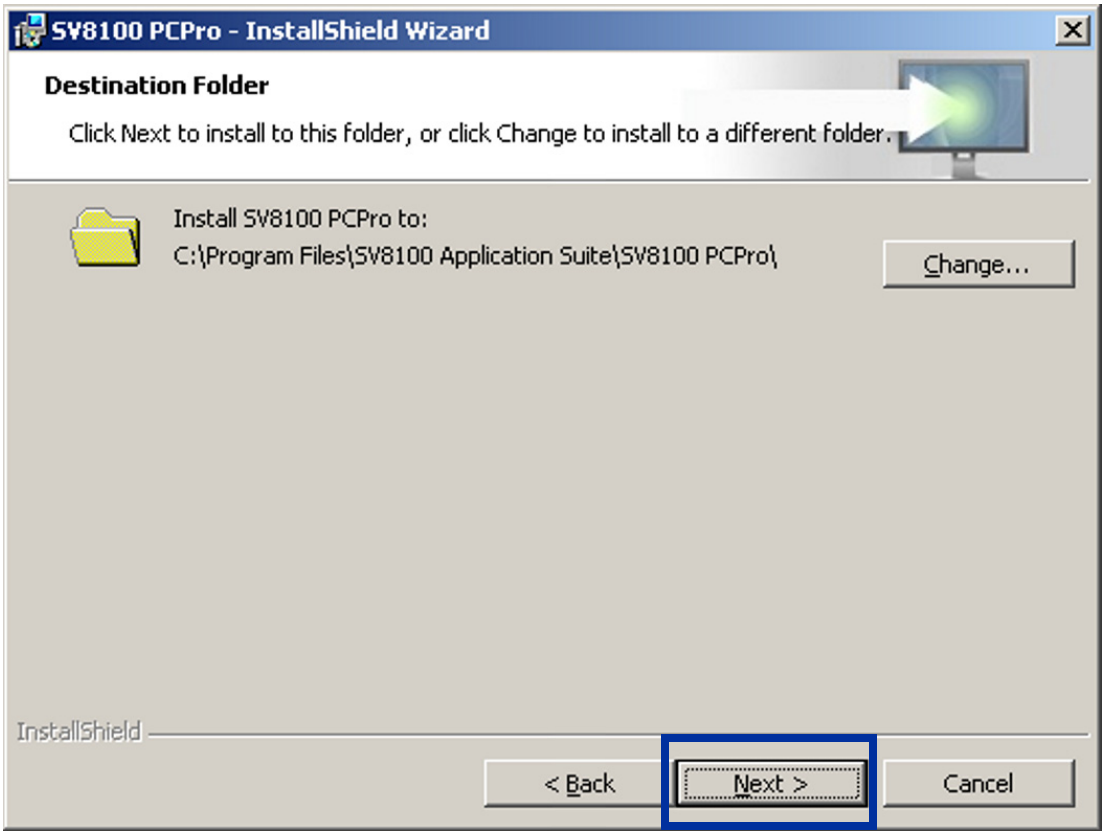


Figure 2-2 InstallShield Wizard Destination Folder (Default Location)

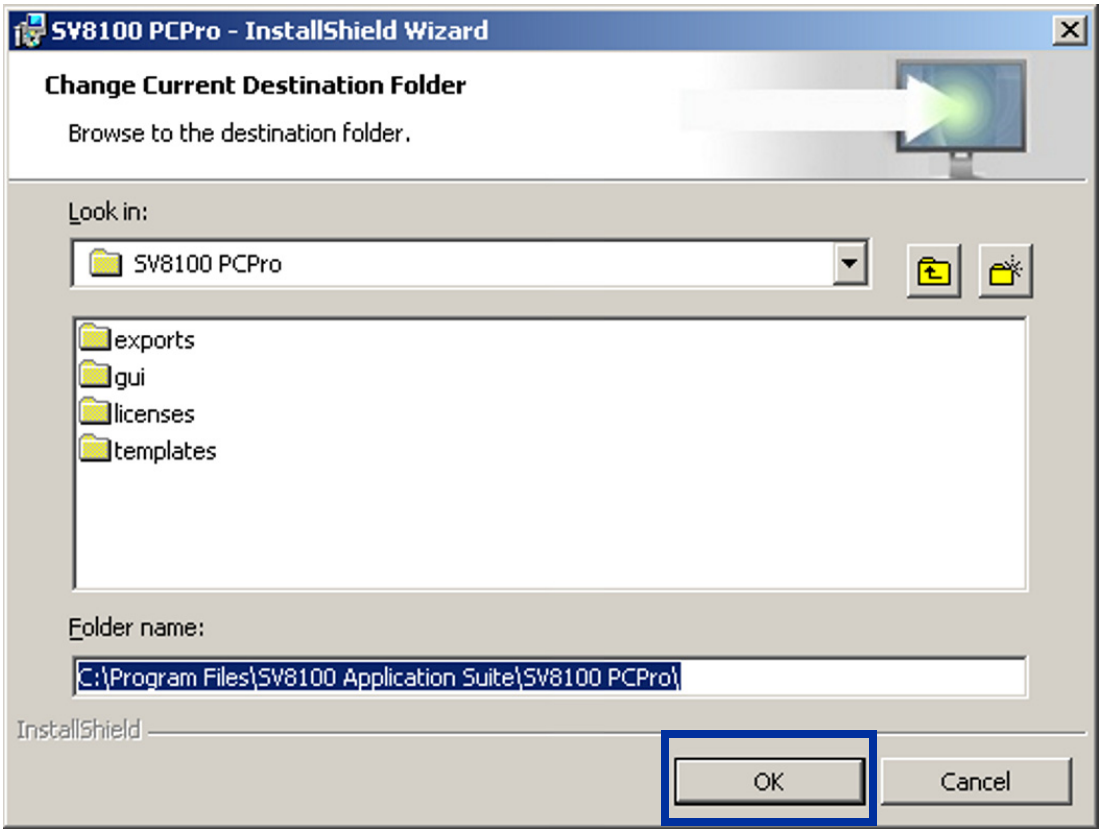


Figure 2-3 InstallShield Wizard Destination Folder (Change Location)

4. To install the program, click **Install**.

   If you wish to return to the previous screen, click **<Back**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

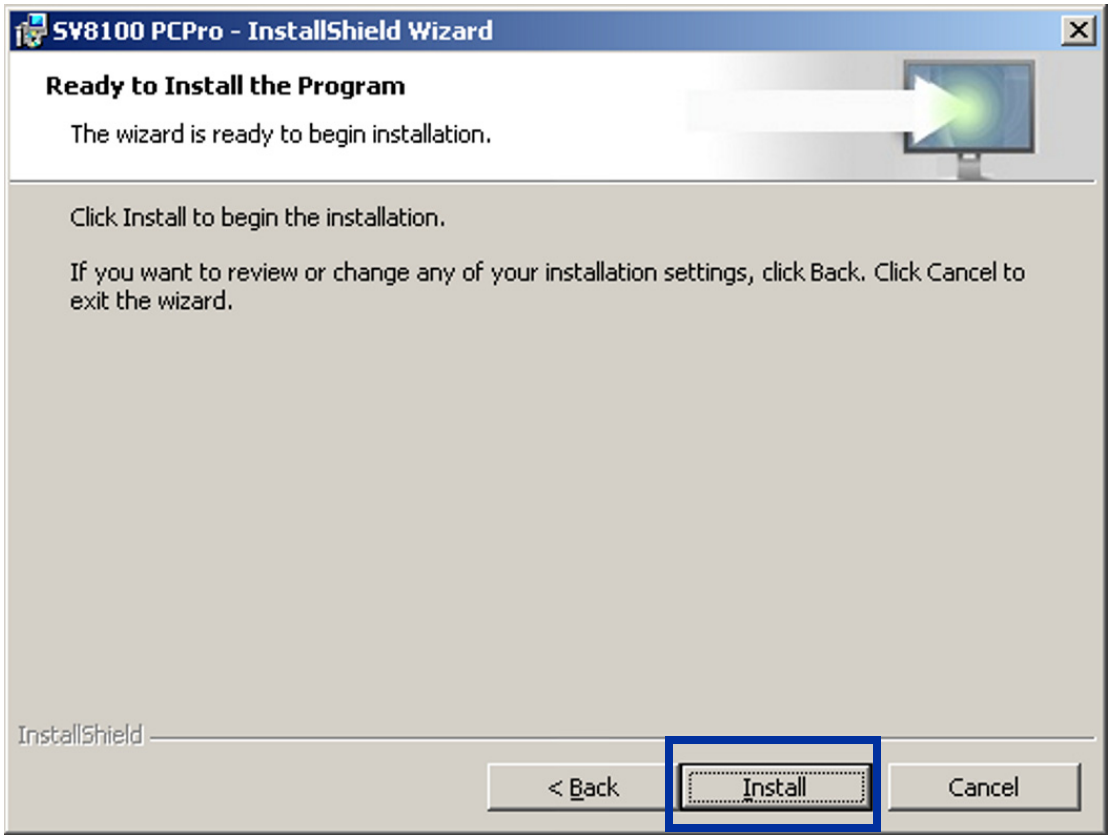


Figure 2-4 InstallShield Wizard Begin Installation

5. The program installs. Figure 2-5 InstallShield Wizard Installation Progress shows the screen you will see that indicates the progress of the installation.

   If you wish to return to the previous screen, click **<Back**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

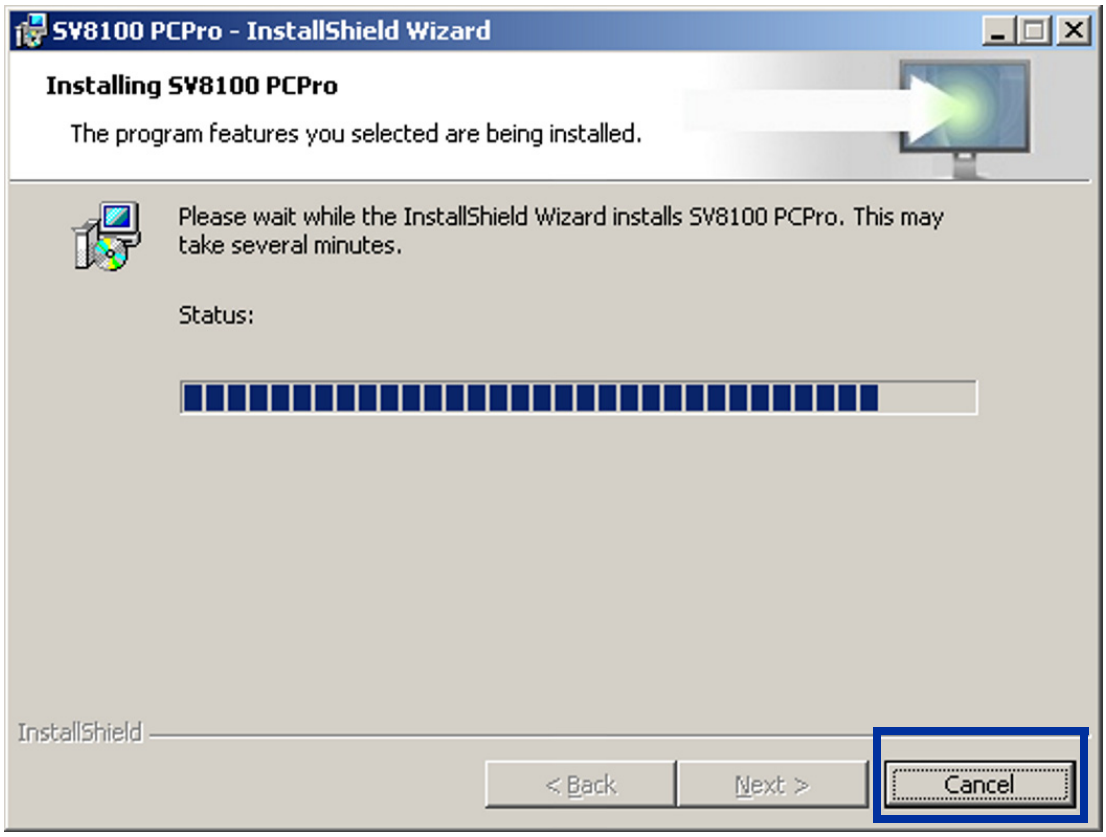


Figure 2-5 InstallShield Wizard Installation Progress

6. When the installation is completed, Figure 2-6 InstallShield Wizard Finish Installation is displayed. Click **Finish**.

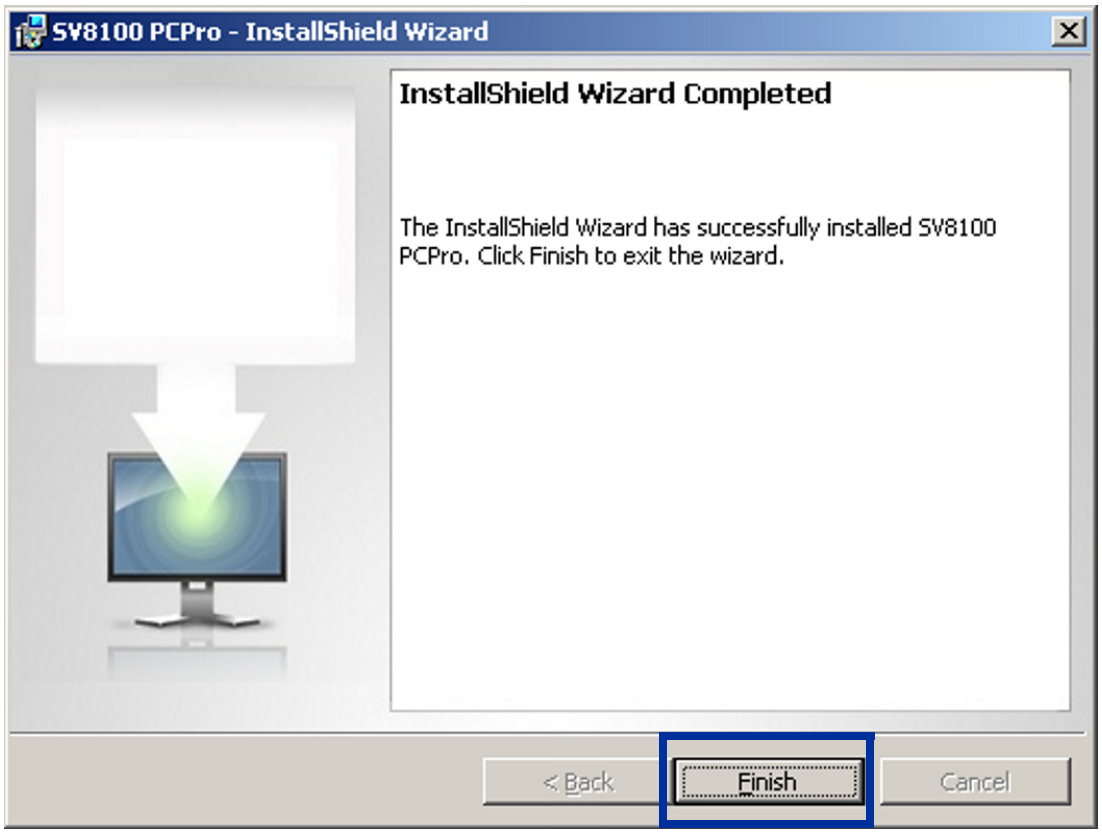


Figure 2-6 InstallShield Wizard Finish Installation

SECTION 4 LAUNCHING THE APPLICATION SOFTWARE

Once the application software has successfully installed you can launch the application in one of two ways:

❑ Click the PCPro shortcut icon that was placed on your desktop during installation.

Figure 2-7 SV8100 PCPro Desktop Shortcut

or....

❑ Select the program by clicking **Start > All Programs > NEC > SV8100 PCPro > SV8100 PCPro**.

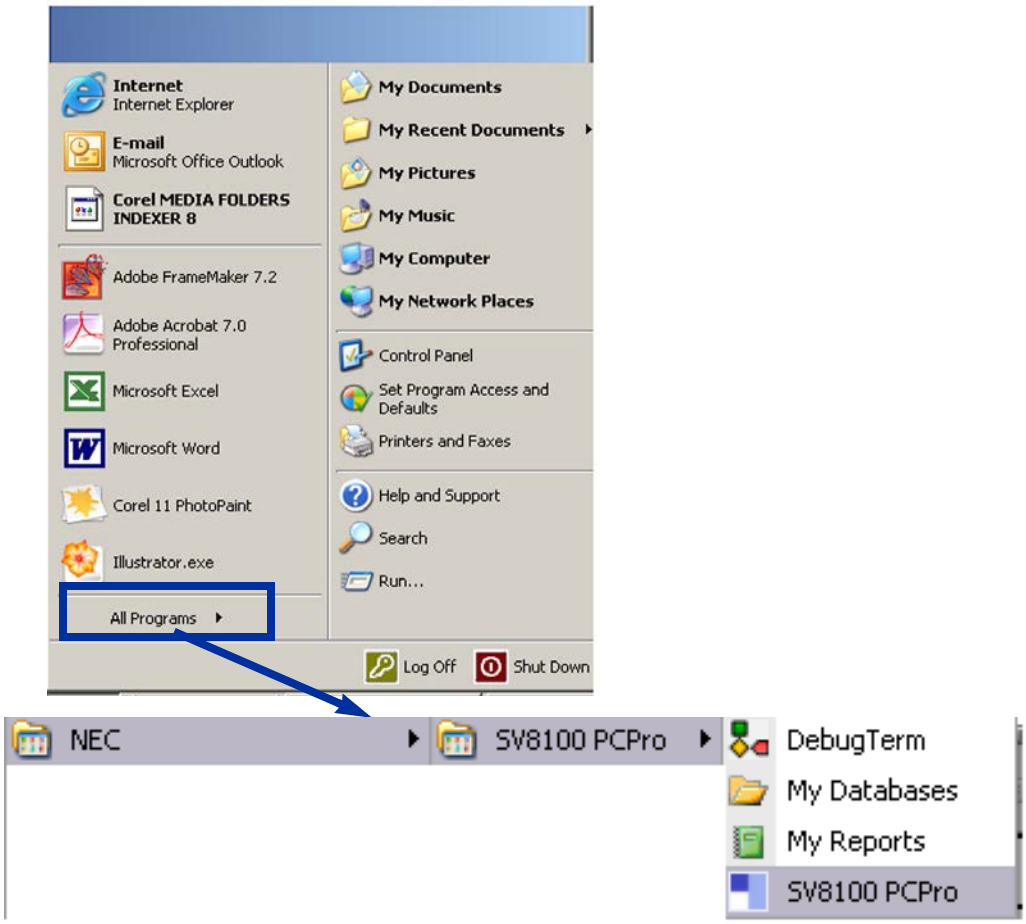


Figure 2-8 InstallShield Wizard Launch Software

SECTION 5 LOGGING INTO THE APPLICATION

After you have launched the application, you must login using the User Name and Password. Refer to Table 2-2 Default PCPro Accounts on page 2-2 for a list of default PCPro accounts and their associated user names and passwords.

1. Enter the appropriate **User Name** and **Password** and press **OK**.

   If you do not want to continue, click **Cancel** to abort login and exit the software.

Figure 2-9 PCPro Login Screen

2. If the login is successful, the PCPro Welcome screen is displayed.

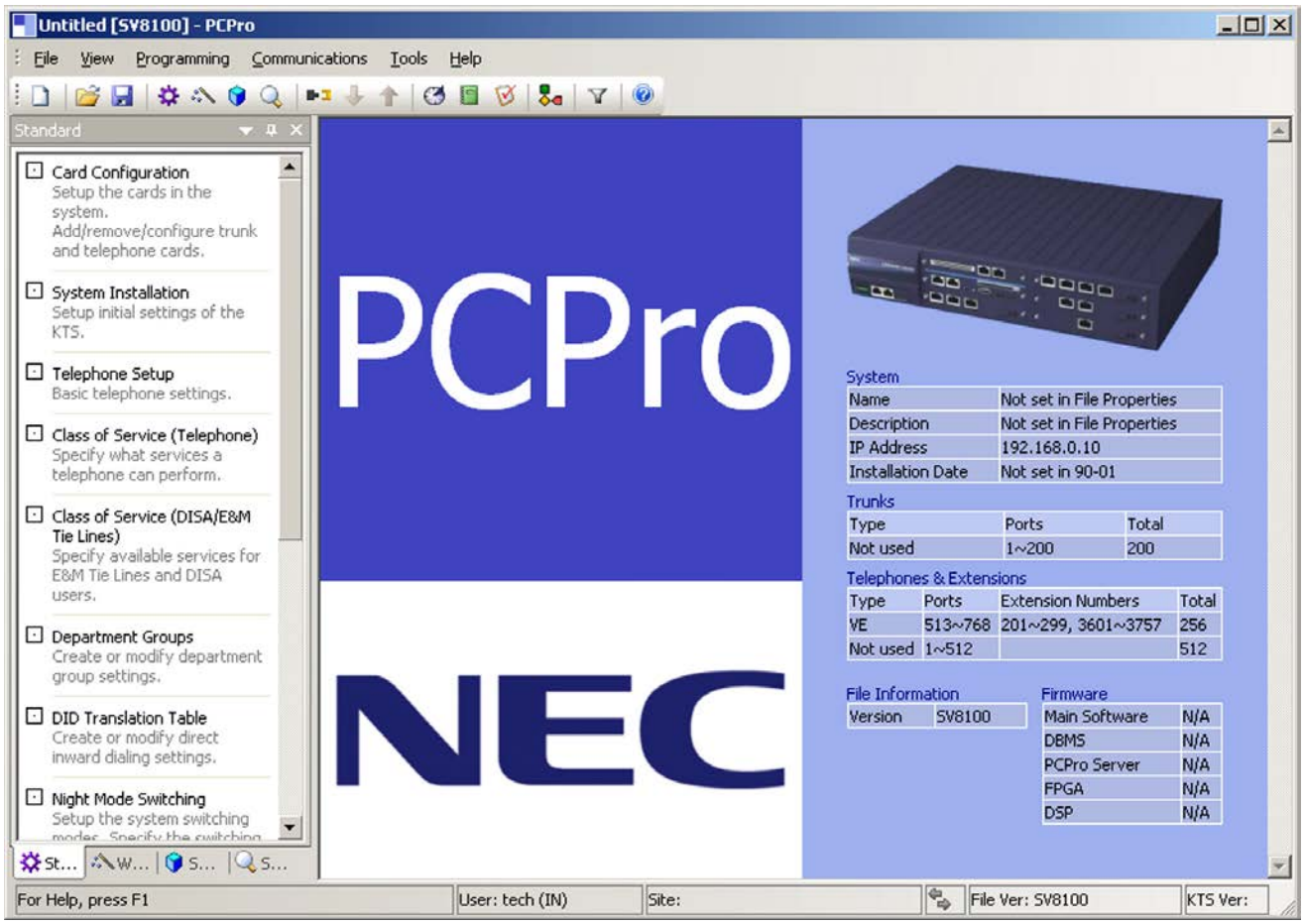


Figure 2-10 PCPro Main Menu

-- NOTES --

CHAPTER 3 *Application Layout*

SECTION 1 INTRODUCTION

The programming section of PCPro provides methods to view and edit values associated with a chassis configuration. Most programming is done using three different views: Standard, Wizard and System Data. These methods can be accessed through the menu item **Programming**. Accessing these items updates the applications Submenu and Workspace areas. The Status bar gives a status indication of various functions related to PCPro (e.g., connection status, version information).

The general PCPro application layout is shown in Figure 3-1 PCPro Application Layout.

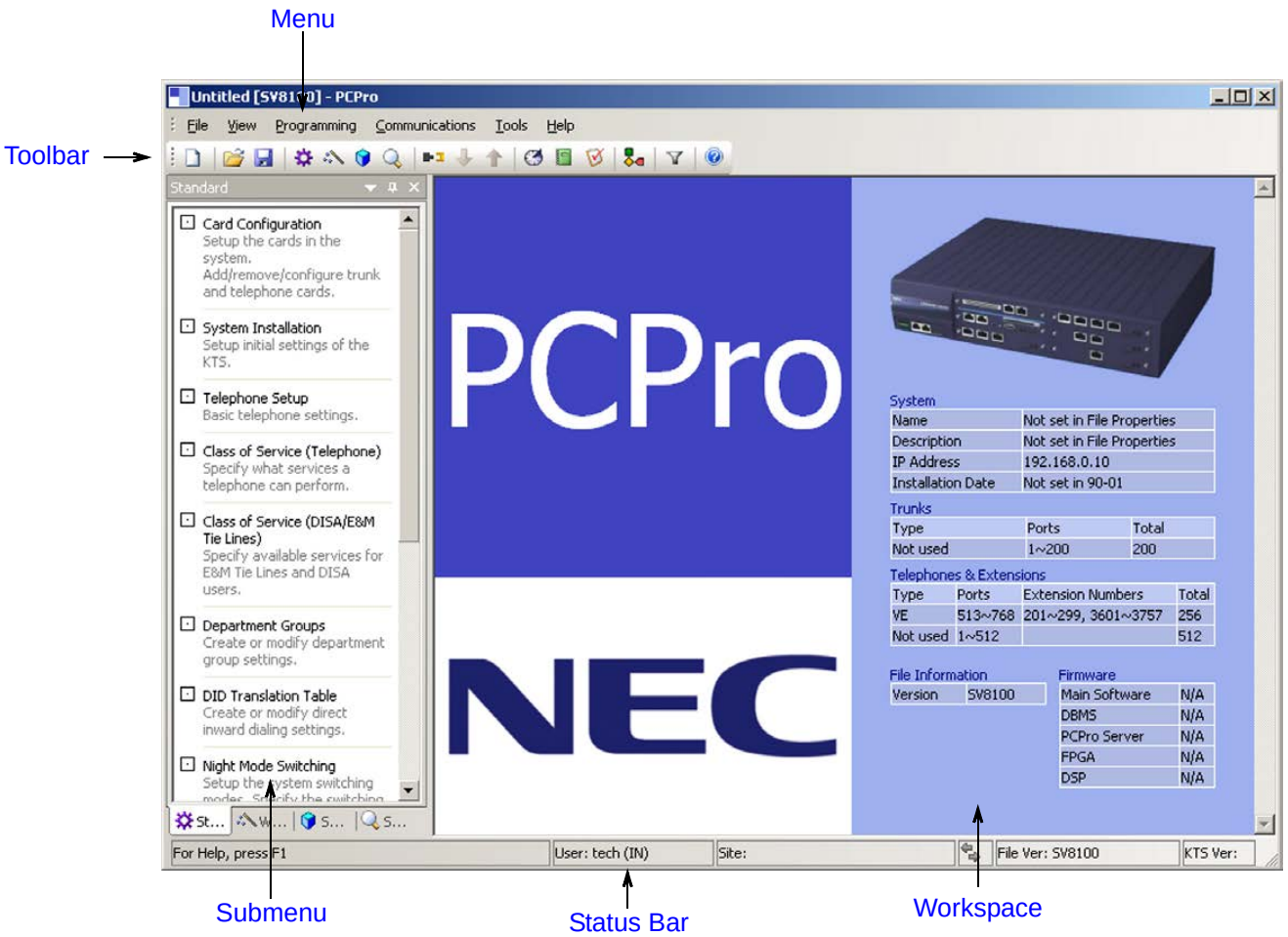


Figure 3-1 PCPro Application Layout

SECTION 2 MENU

The menu displays the list of functions available in PCPro. Some of these commands have images next to them so you can quickly associate the command with the image. The full list of the PCPro menu hierarchy is found in Chapter 7 - Menu and Toolbar Reference.

SECTION 3 TOOLBAR

The Toolbar is a group of buttons that map to items in the application menu. The toolbar allows for quick and convenient access to the most common PCPro commands. The items on the toolbar are shown in Figure 3-2 PCPro Toolbar.

The keyboard shortcuts (where applicable) are listed below the toolbar identification in Figure 3-2 PCPro Toolbar.

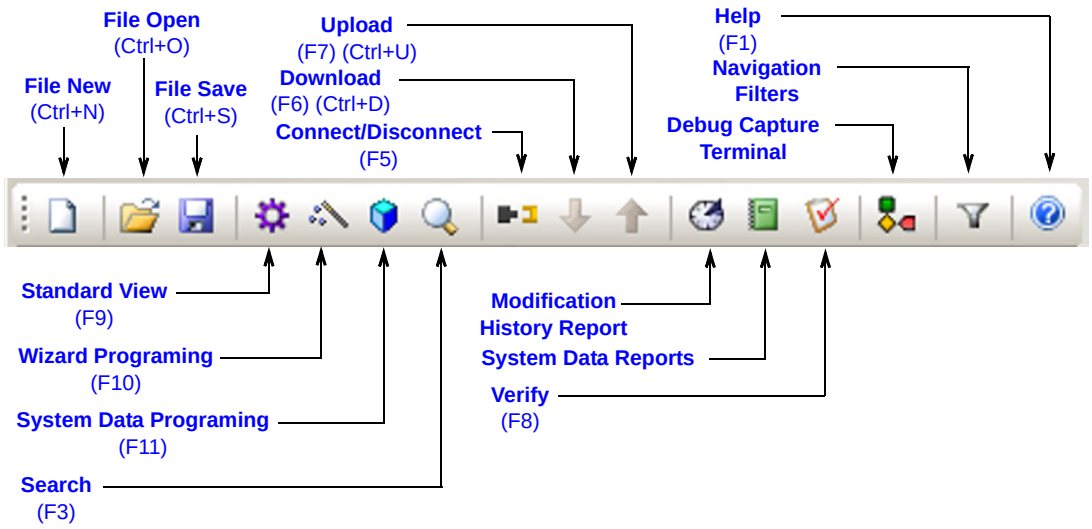


Figure 3-2 PCPro Toolbar

The full list of the PCPro menu and toolbar hierarchy is found in Chapter 7 - Menu and Toolbar Reference.

SECTION 4 SUBMENU AREA

The Submenu Area is used to navigate through Standard View (refer to Chapter 4 - Standard View), Wizards (refer to Chapter 5 - Wizards View) and System Data (refer to Chapter 6 - System Data View). Selections made from the submenu area updates the workspace with the related settings.

SECTION 5 WORKSPACE

The Workspace is where all programming occurs. The Workspace consists of various selections made from the Submenu Area and the Workspace itself. Common Workspace components are further explained.

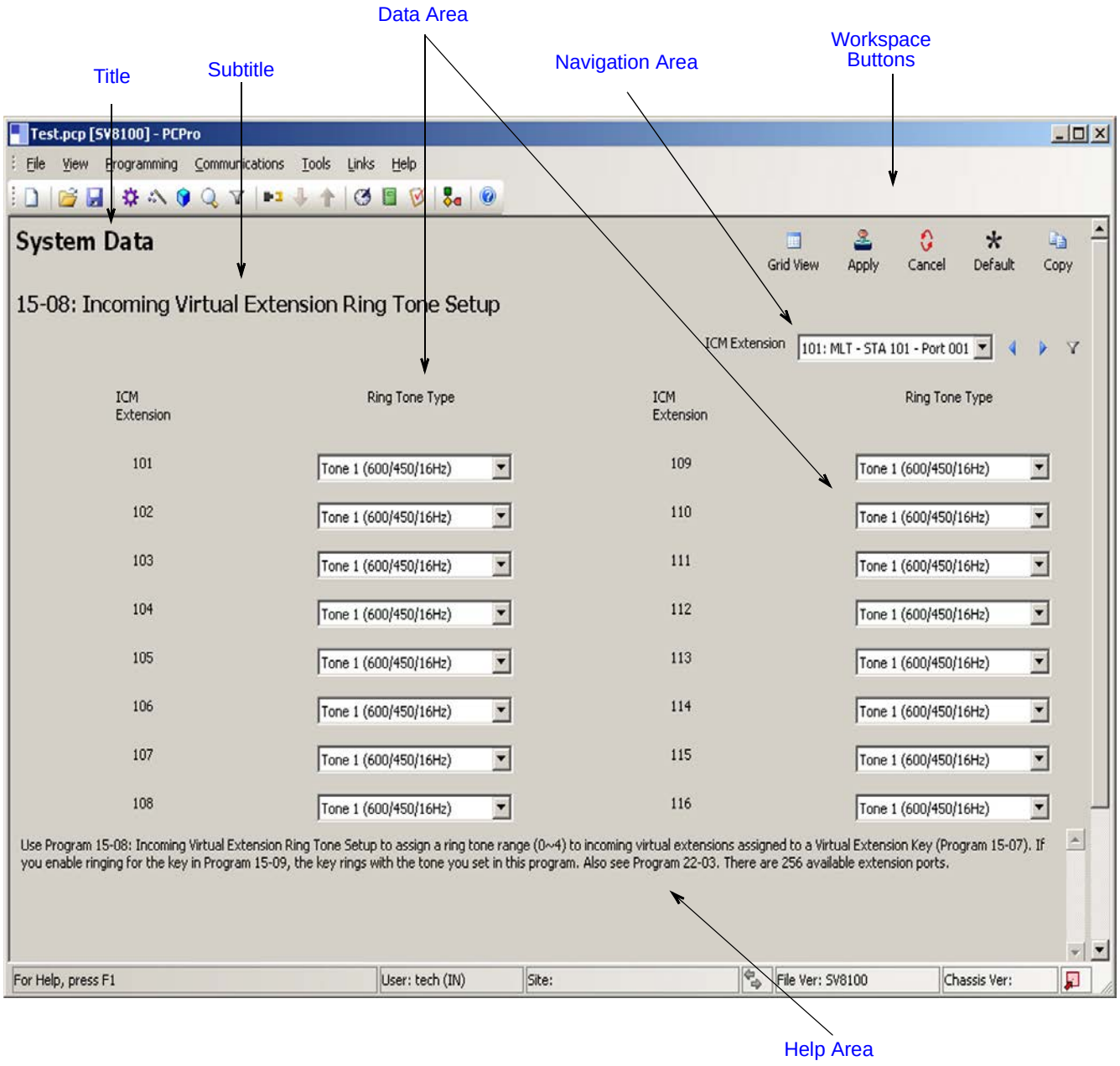


Figure 3-3 PCPro Workspace

5.1 Title

Title describes what the current settings in the Workspace are related to. This is associated with the selection made in the Submenu Area. The title is situated at the top left corner of the Workspace.

5.2 Subtitle

Subtitle shows further information about what the you are programming.

5.3 Workspace Buttons

The Workspace buttons area displays different buttons relevant to current programming. These buttons include:

Table 3-1 Workspace Buttons

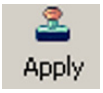
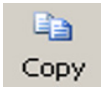
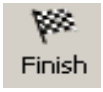
Button	Description
	**Apply** sets changes recently made on the active screen. Attempting to apply an invalid value prompts a validation message detailing the error. In this case, changes are not applied until the value is made valid.
	**Back** returns to the previous screen for the specified feature. This button is only available when using Wizards.
	**Cancel** discards recent changes made to the active screen that have not been applied and displays the Home screen in the Workspace.
	**Copy** shows the Copy dialog. Refer to Appendix C - Copy for more information.
	**Default** resets the active screen to the system default values.
	**Finish** indicates that this is the only program for this feature. Once you have entered the information for the program, you are finished programming the feature.

Table 3-1 Workspace Buttons

Button	Description
	**Form View** is available on screens that have a large number of values that must be entered (e.g., screens with telephone extensions). When Form View is selected, the screen switches to a table format, allowing you to more easily enter a large number of values for a specified extension. For example, if assigning your incoming virtual ring tones for internal extensions, you can switch from Grid View to Form View to list all of the extensions in table format. Note that this option is not available on all screens.
	**Grid View** is available on screens that have a large number of values that must be entered (e.g., screens with telephone extensions). When Grid View is selected, the screen switches to the default view, which displays the values with pulldown boxes. For example, if assigning you incoming virtual ring tones for internal extensions, you can switch between Grid View to Form View. Note that this option is not available on all screens.
	**Next** proceeds to the next screen for the feature. When all of the programs have been displayed for the selected feature, pressing Next returns you to the Main screen. This button is only available when using Wizards.

When you do not click the **Apply** button, but do one of the following, the system applies the changes as if you had clicked the **Apply** button.

- ❑ Attempt to leave the current screen.
- ❑ Attempt to navigate a different item within the system data.
- ❑ Use the Previous button.
- ❑ Use the Next button.
- ❑ Save the active configuration.
- ❑ Exit the application. (Note that on some screens, the system prompts you to save the changes or to exit without saving them.)
- ❑ Generate a report.

5.4 Navigation Area

To navigate to different items within a program, use the various navigation buttons.

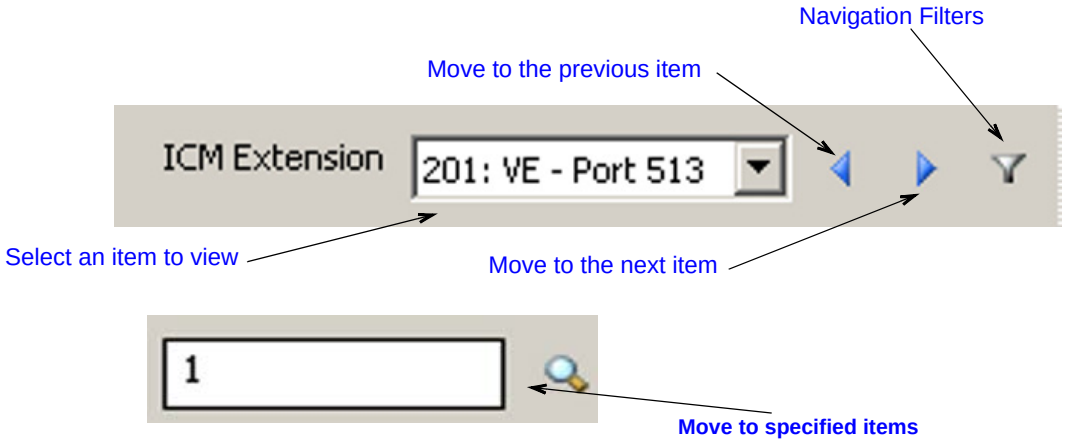


Figure 3-4 PCPro Navigation Buttons

Table 3-2 Navigational Buttons and Drop Down List

Button/Menu	Description
Selections 	Select the item from the drop down list. PCPro automatically moves to the selected item.
Ranges 	Use this button to select a range of values. Type in the value and press the 'Go' button (magnifying glass icon) or press **Enter**. PCPro displays a range of available items, beginning with the value you typed. For example, if you typed Station Port 300, PCPro displays a range of ports beginning with port 300.
Previous/Next 	Use Previous to show settings of the preceding item. Use Next to show settings of the next item.

5.5 Data Area

The Data Area is where actual system data appears. The contents of this area are specific to what the you are programming. For example, if programming PRG 10-02, this area shows all the data items within 10-02.

The contents of the Data Area are linked to the various system data *views* available. These are:

- Standard
- Wizards
- System Data

5.6 Help Area

The Help Area shows help text relevant for the data in the Data Area. More extensive help can usually be found in the application online help (F1 key).

5.7 Status Bar

The status bar, which is a horizontal area at the bottom of the Workspace, provides information about the current state of what you are viewing in the Workspace and any other contextual information.

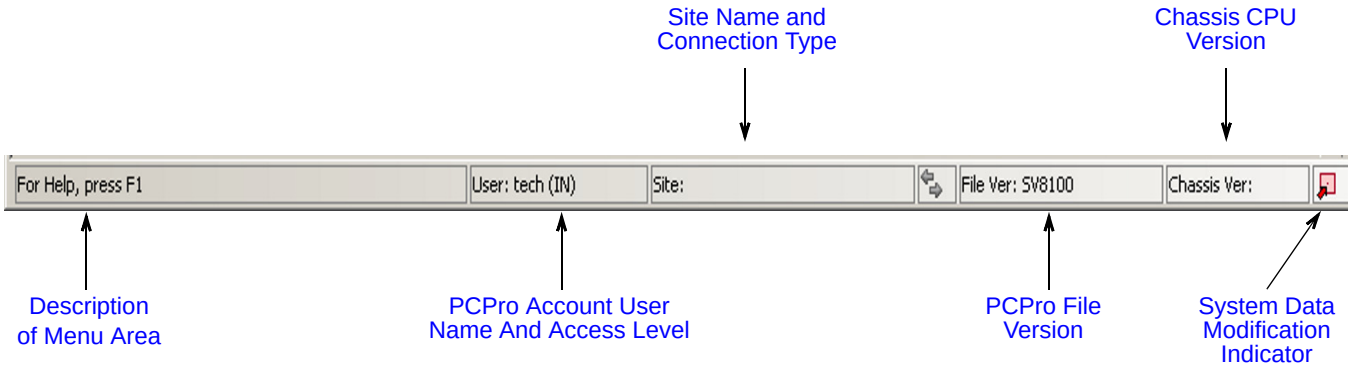


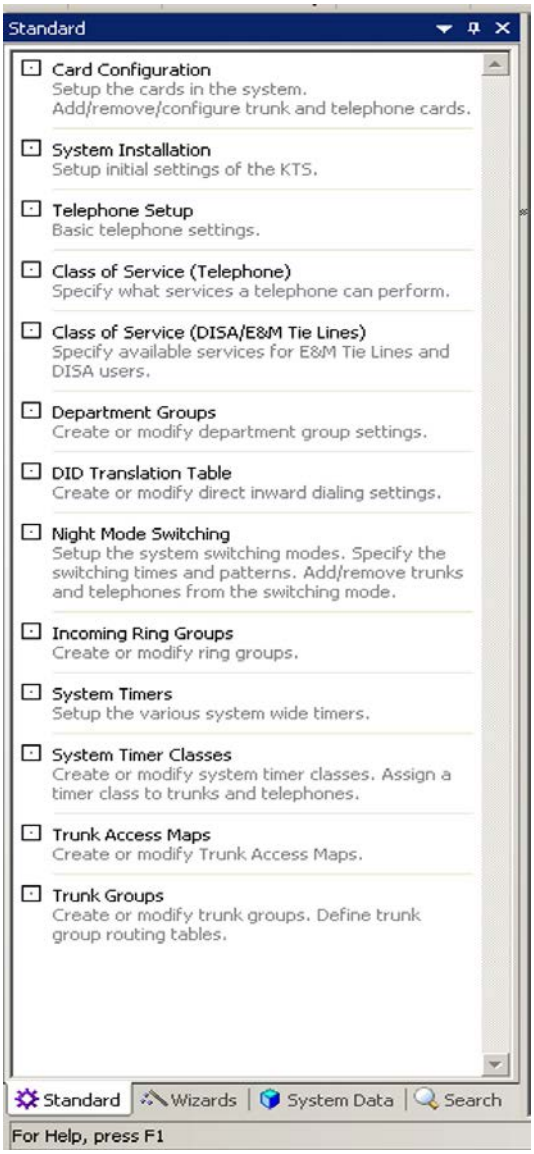
Figure 3-5 PCPro Status Bar

-- NOTES --

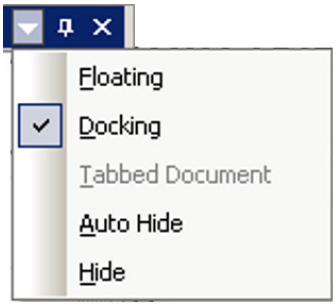
CHAPTER 4 *Standard View*

SECTION 1 OVERVIEW

Standard View combines related settings into one screen, allowing a quick setup of a high level task. Settings on these screens work together, allowing you to understand how settings relate to each other. Standard screens are identified by their name. This name indicates the tasks with which the screen is related.



Window View: Clicking this icon displays the flyout, which allows you to select how you want the Standard submenu displayed. Right mouse clicking also displays this menu.



Auto Hide: Clicking this icon hides the Standard submenu list and docks the tabs on the left side of the screen.

Close: Clicking this icon closes the Standard submenu list and tabs.

Figure 4-1 Standard View Submenu

SECTION 2 STANDARD VIEW SUBMENU

2.1 Accessing Standard View

You can access Standard View submenu area using any of the following methods:

- From the Standard View submenu, select the menu item **Programming > Standard**.

  or…

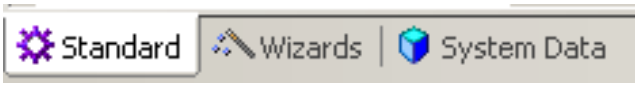
- Select the toolbar icon depicting the purple cog  .

  or…

- Press **F9**.

  or…

- If the submenu area is currently open, select the **Standard** tab depicting the purple cog icon.



Once selected, the Standard View menu appears in the Programming submenu area. Standard screens are listed alphabetically.

To view a particular Standard View screen, click on the screen name.

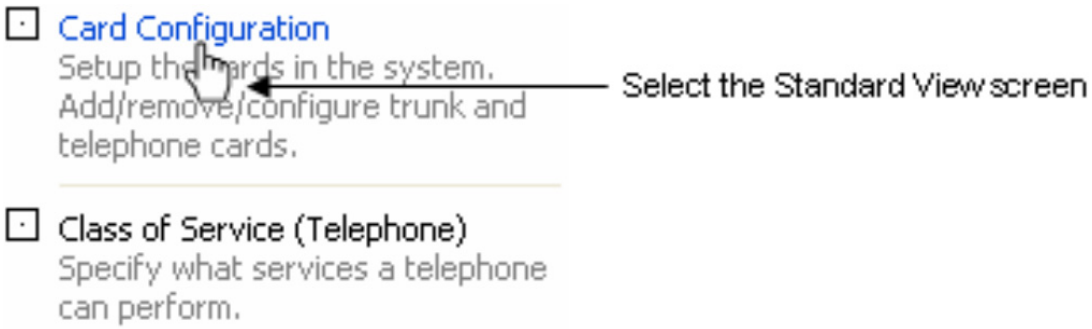


Figure 4-2 Selecting a Standard View Screen

2.2 Using a Standard View Screen

Each Standard View screen works differently. However the following common methods apply:

1. Select the Standard View screen from the Standard View menu relevant to the desired task.
2. Modify settings on the screen.
3. Press the **Apply** button to save the changes.

The method in modifying settings for each screen is explained in the help menu.

The remainder of this chapter discusses the individual options available from the Standard View submenu.

SECTION 3 CARD CONFIGURATION

The screen represents a conceptual model of the chassis and the blade packages within it. To obtain blade details download the configuration from the chassis. The blade slots display the blade types (these are the blades that can be inserted in the selected slot), the telephone/trunk port range (these are the ports used by the blade) and firmware version (firmware being used by the blade). By default, all blade slots displayed as white indicating no blade has been installed in that slot.

On this screen, you can right mouse click on the desired slot. A popup menu is displayed indicating the configurable options for that slot. Once you have selected the blade that is installed in that slot, the blade name is displayed on the front of the slot location.

Refer to Figure 4-3 Standard View Card (Blade) Configuration Screen on page 4-4 for the layout of the Card Configuration screen.

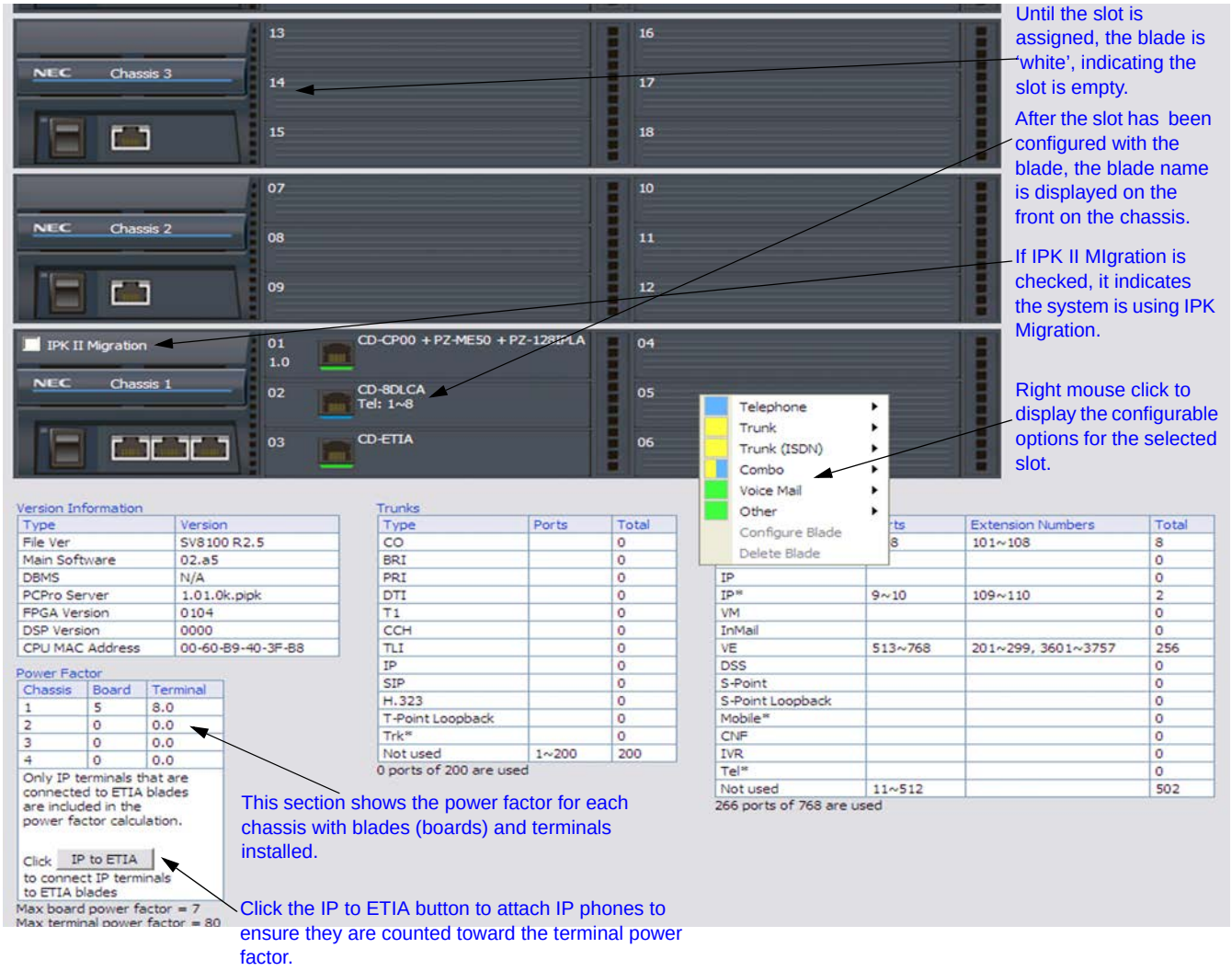


Figure 4-3 Standard View Card (Blade) Configuration Screen

3.1 Blade Types

In PCPro, blade types are categorized under the following four groups. When you right click on the chassis model on the screen, the popup menu is displayed. The menu lists the blades and each blade type is designated with a distinctive color.

Blade Type and Color	
Telephone	Combo
Trunk	Other

Telephone
Represented on the Blade Configuration screen as 'blue' blades. Telephone blades provide interfaces to telephones being used in the chassis. Telephone blades use telephone ports (e.g., a CD-8DLCA makes use of eight telephone ports).

Trunk
Represented on the Blade Configuration screen as 'yellow' blades. Trunk blades provide interfaces to lines such as COI, DID, OPX, BRI, PRI, T1, CCIS, etc., which are being used in the chassis. Trunk blades, use trunk ports (e.g., a CD-4COTB blade makes use of four trunk ports).

Combo
Represented on the Blade Configuration screen as 'yellow/blue' blades. Trunk blades provide interfaces to lines such as digital single line stations, which are being used in the chassis. Combo blades, use telephone ports (e.g., a CD-LTA blade makes use of eight digital telephone ports and two analog ports).

Other
Represented on the Blade Configuration screen as 'green' blades. These miscellaneous blades do not have a direct relationship to a trunk or telephone. However, some blades under this category (e.g., CD-VM00) use telephone ports as they are associated with extensions.

3.2 Adding a Blade

To add a blade, complete the following steps:

1. With the mouse, right click on the slot where you want the blade to reside.
2. A popup menu appears listing the blade types that can be installed.

There are two additional options on the popup menu. These are Configure Card and Delete Card. Note that these two options are only available if a blade has previously been added.

3. Select a blade type relevant to the blade to install.
4. Another popup menu appears listing blades associated with the selected blade type.
5. Select the desired blade package you want to add.

The slot changes appearances indicating the blade installed, the firmware version being used, the port type, and the port range being used.

3.3 Removing a Blade

To remove a blade, complete the following steps:

1. With the mouse, right click on the blade you want to remove.
2. When the popup menu is displayed, select **Delete Card**.

The blade is removed and the slot and port type range it was utilizing is now available for use by another blade.

3.4 Assigning IP Phones to ETIA Blades

To assign an IP to an ETIA blade, complete the following steps:

1. Click on the IP to ETIA button.
2. Right click on the IP phone to assign it to the ETIA blade.
3. Select the ETIA blade to which the IP phone is connected.

   ✎ *Selecting External Hub means the phone is not connected to an ETIA blade.*

   ✎ *Set the phone type using PRG 15-05-26 to ensure the correct power factor is assigned by the system.*

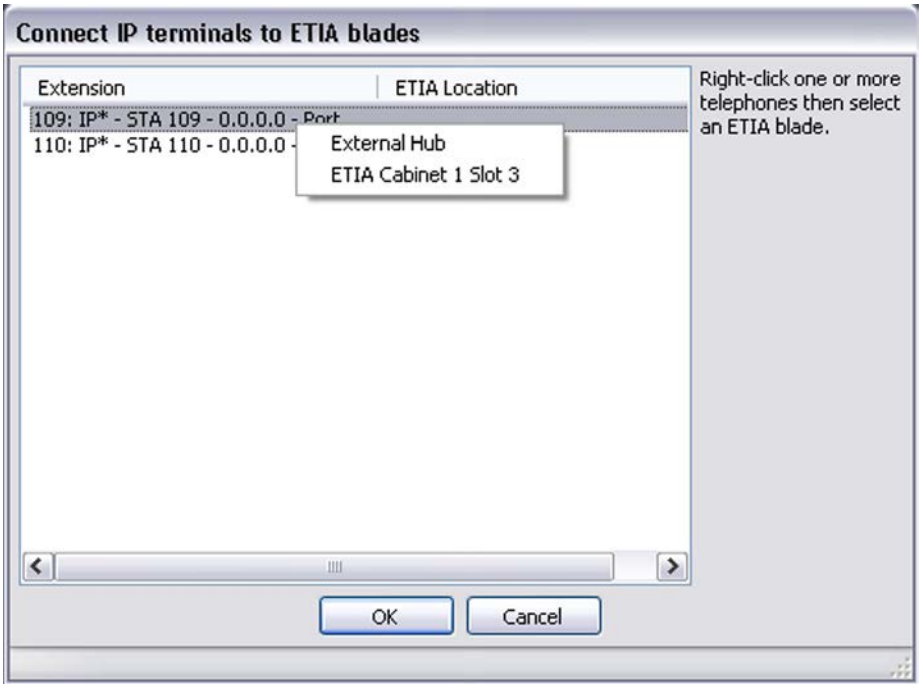


Figure 4-4 Connect IP Terminals to ETIA Blades

4. Click **OK** to save your selection.

SECTION 4 SYSTEM INSTALLATION

The System Installation screen allows you to assign initial settings for the SV8100 system.

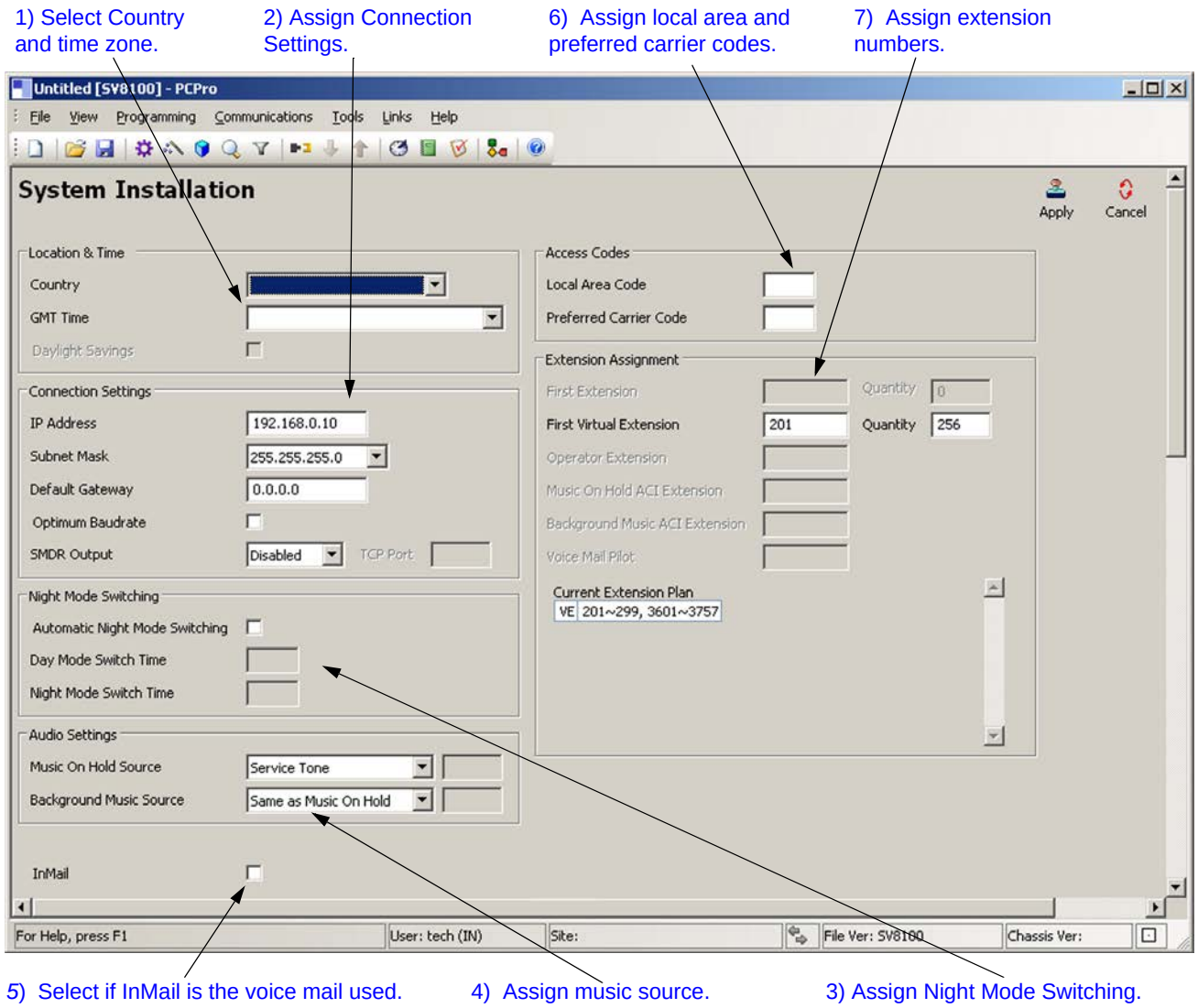


Figure 4-5 Standard View System Installation

To assign the initial system settings:

1. Select the **Country** (United States or Canada) and **GMT Time** (appropriate time zone) where the system installed.
2. Assign the **IP Address**, **Subnet Mask**, **Default Gateway**, **Optimum Baudrate** and **SMDR Output** as required for the installation site.

3. Assign whether the system automatically switches to Night Mode. If you select **Automatic Night Mode Switching**, you also need assign the time the system switches to day mode (**Day Mode Switch Time**) and to night mode (**Night Mode Switch Time**).

4. Use the pulldown menus to disable Music on Hold or Background Music, or assign the music source.

5. Select **InMail** if this is the voice mail that the system uses.

6. Assign the **Local Area Code** and **Preferred Carrier Code**.

7. Assign extension numbers for virtual, operator, Music on Hold ACI extension and Background Music ACI extensions. Also assign the Voice Mail Pilot extension. The Current Extension Plan for the assigned extensions is displayed (this field is view only).

SECTION 5 TELEPHONE SETUP

This screen combines system data, which is relevant for telephone settings. It allows you to assign basic telephone settings.

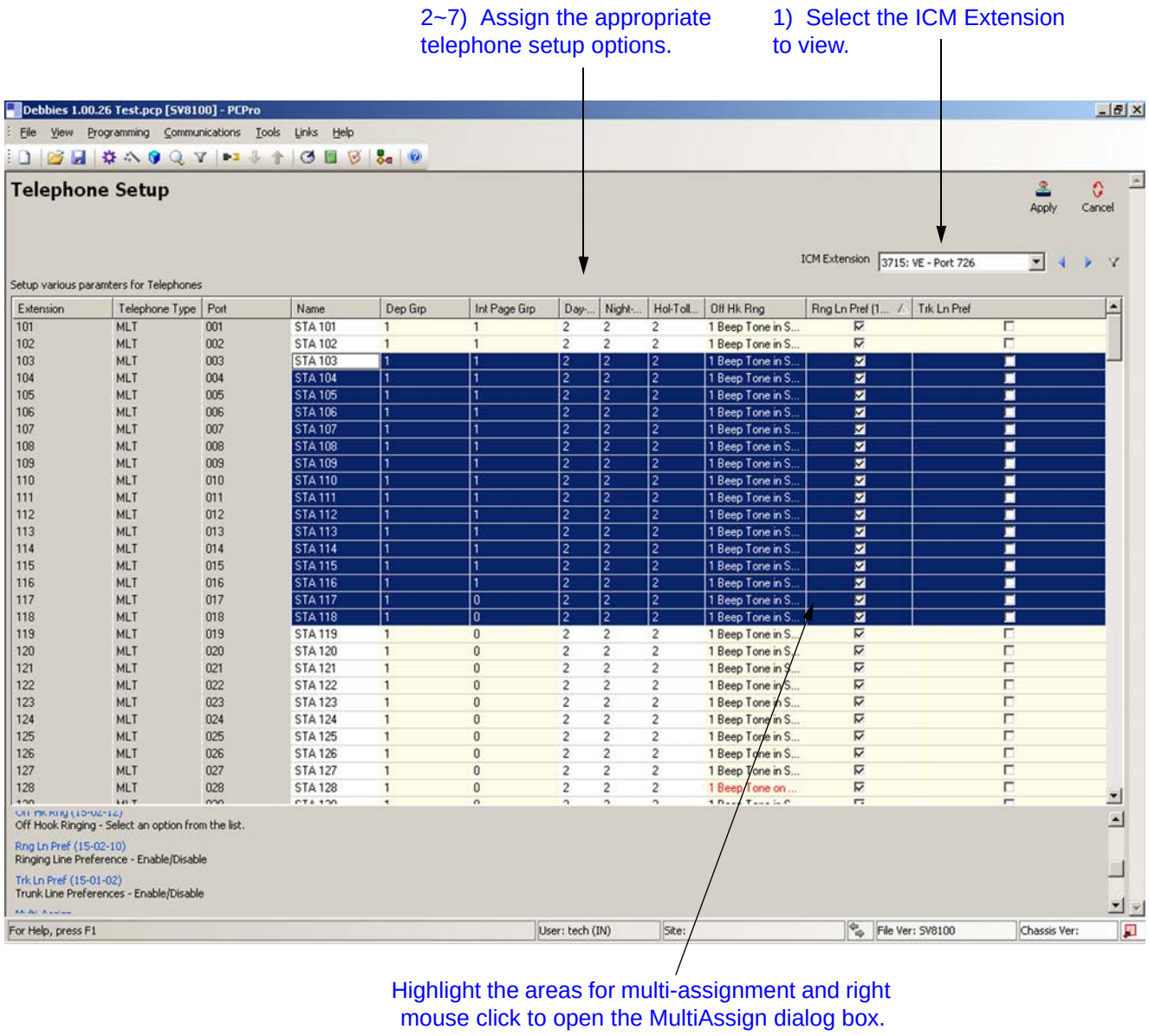


Figure 4-6 Standard View Telephone Setup

To assign the basic telephone settings.

1. Use the **ICM Extension** pulldown menu to select a specific extension you want to view. The selected extension is highlighted.
2. Assign the **Name (**Extension Name) that is displayed.
3. Assign a **Dep Grp** (Department Group) to the selected telephone for incoming ringing priority.
4. Assign the **Int Page Grp** (Internal Paging Group) selected telephone to an internal paging group (e.g., to assign the telephone paging zones and to specify whether the telephone can receive internal all call paging).
5. Assign **Day-Toll Restr** (Day Mode Toll Restriction) class for Day Mode.
6. Assign **Night-Toll Restr** (Night Mode Toll Restriction) for Night Mode.
7. Assign **Hol-Toll Restr** (Holiday Mode Toll Restriction) for Holiday Mode.
8. Use the pulldown menu to assign **Off Hk Rng** (Off-Hook Ringing) to the extension.
9. Enable/Disable **Rng Ln Pref** (Ringing Line Preference) for the extension.
10. Enable/Disable **Trk Ln Pref** (Trunk Line Preference) for the extension.
11. Click **Apply** to save the settings.

MultiAssignment

Telephones the have the same properties can be assigned in a block by using the MultiAssign feature**.**

The extension name cannot be multi-assigned.

To assign properties to a block of telephones:

1. Select the area of cells to be assigned in a block.
2. Right click the mouse within the selected area. The MultiAssign dialog box is displayed. (Refer to Figure 4-6 Standard View Telephone Setup on page 4-9.)

   The MultiAssign dialog is filled with the values from the top most selected lines. If any cells on that line are disabled, the default value for that item is used. Columns that are not selected are disabled.

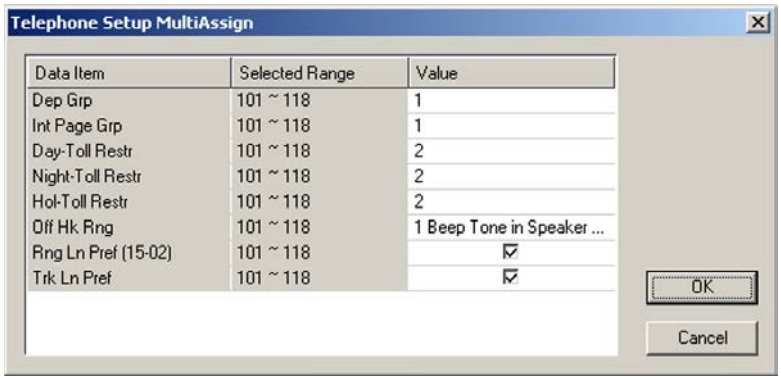


Figure 4-7 Standard View Telephone Setup MultiAssign Dialog

3. Make your selections and click **OK**. All selected telephones are assigned the values in the MultiAssign dialog box.

SECTION 6 CLASS OF SERVICE FOR TELEPHONES

This screen combines system data relevant to Class of Service Options for telephones.

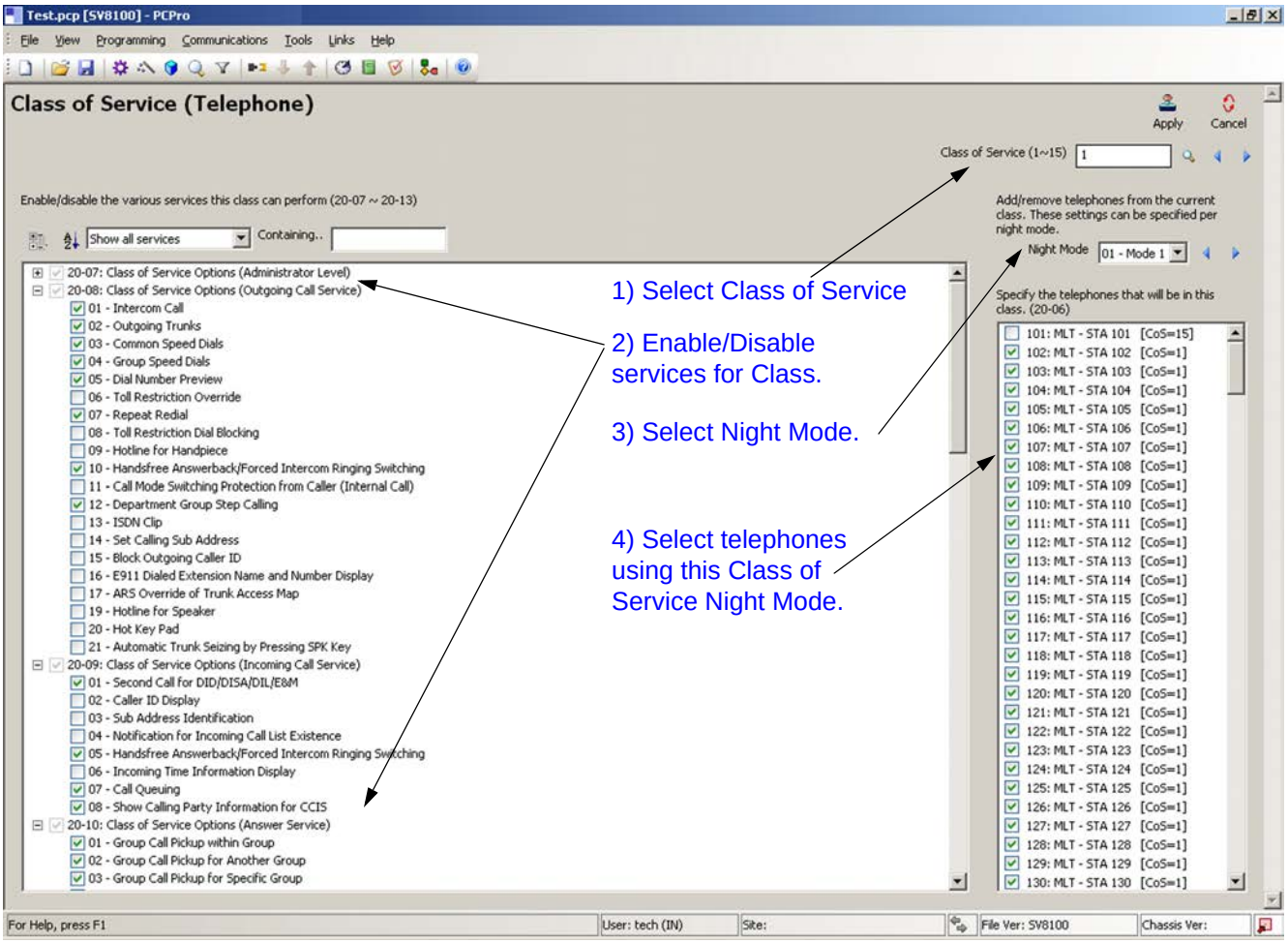


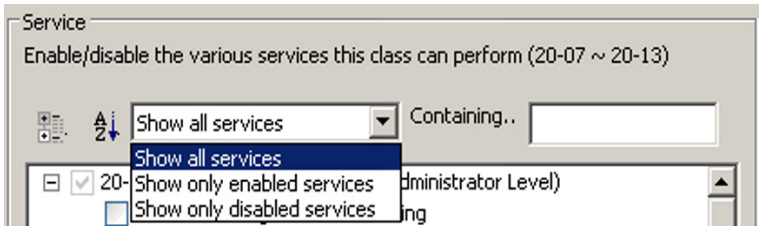
Figure 4-8 Standard View Class of Service for Telephones

The assign Class of Service settings for telephones:

1. Select the **Class of Service (1~15)** you want to assign to the telephones.

2. Enable/Disable telephone-specific service options for the selected Class of Service. These settings are linked with programs 20-07, 20-08, 20-09, 20-10, 20-11, 20-12 and 20-13.

You can select one of three options for viewing the services:
Show all services.
or....
Show only enabled services.
or....
Show only disabled services.



You can also choose how you want to view the options:
Categorized *(by program)*

or....

Alphabetic *(by feature name)*

3. Select the **Night Mode** from the pulldown menu.

4. Click the telephones that you want to assign to the specified Night Mode.

   The selected telephones will be members of the class during the selected Night Mode. These settings are linked with 20-06.

5. Click **Apply** to save the settings.

SECTION 7 CLASS OF SERVICE FOR DISA/E&M TIE LINES

This screen combines system data relevant to Class of Service options for DISA users and E&M Tie Lines.

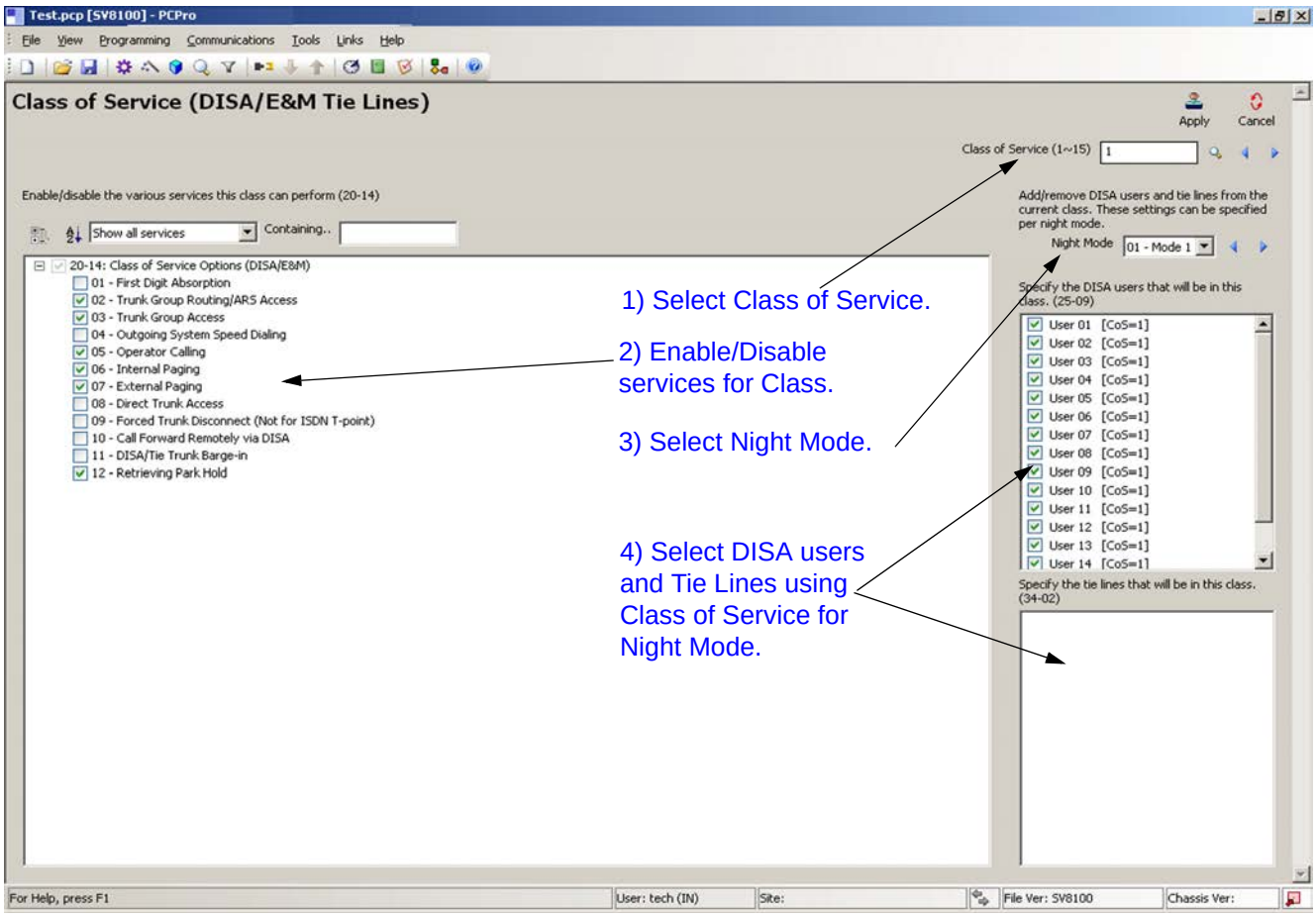
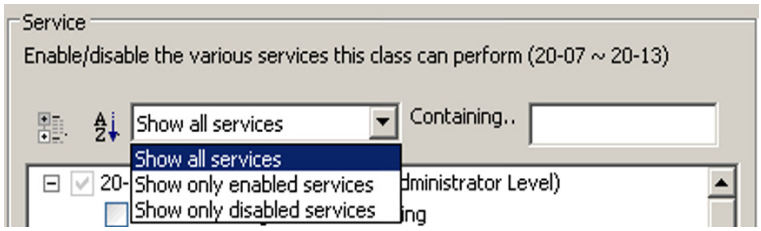


Figure 4-9 Standard View Class of Service for DISA/E&M Tie Lines

To assign Class of Service options for DISA and E&M Tie Lines.

1. Select the **Class of Service (1~15)** you want to assign to the telephones.
2. Enable/Disable telephone-specific service options for the selected Class of Service. These settings are linked with programs 20-14.

You can select one of three options for viewing the services:
Show all services.
or....
Show only enabled services.
or....
Show only disabled services.



You can also choose how you want to view the options:
Categorized *(by program)*
or....
Alphabetic *(by feature name)*

3. Select the **Night Mode** from the pulldown menu.
4. Click the DISA users and E&M Tie Lines that you want to assign to the specified Night Mode.

   The selected DISA users and E&M Tie Lines will be members of the class during the selected Night Mode. DISA settings are linked with program 25-09 and E&M Tie Line settings are linked with program 34-02.
5. Click **Apply** to save the settings.

SECTION 8 DEPARTMENT GROUPS

This screen combines system data relevant to the feature **Department Groups**.

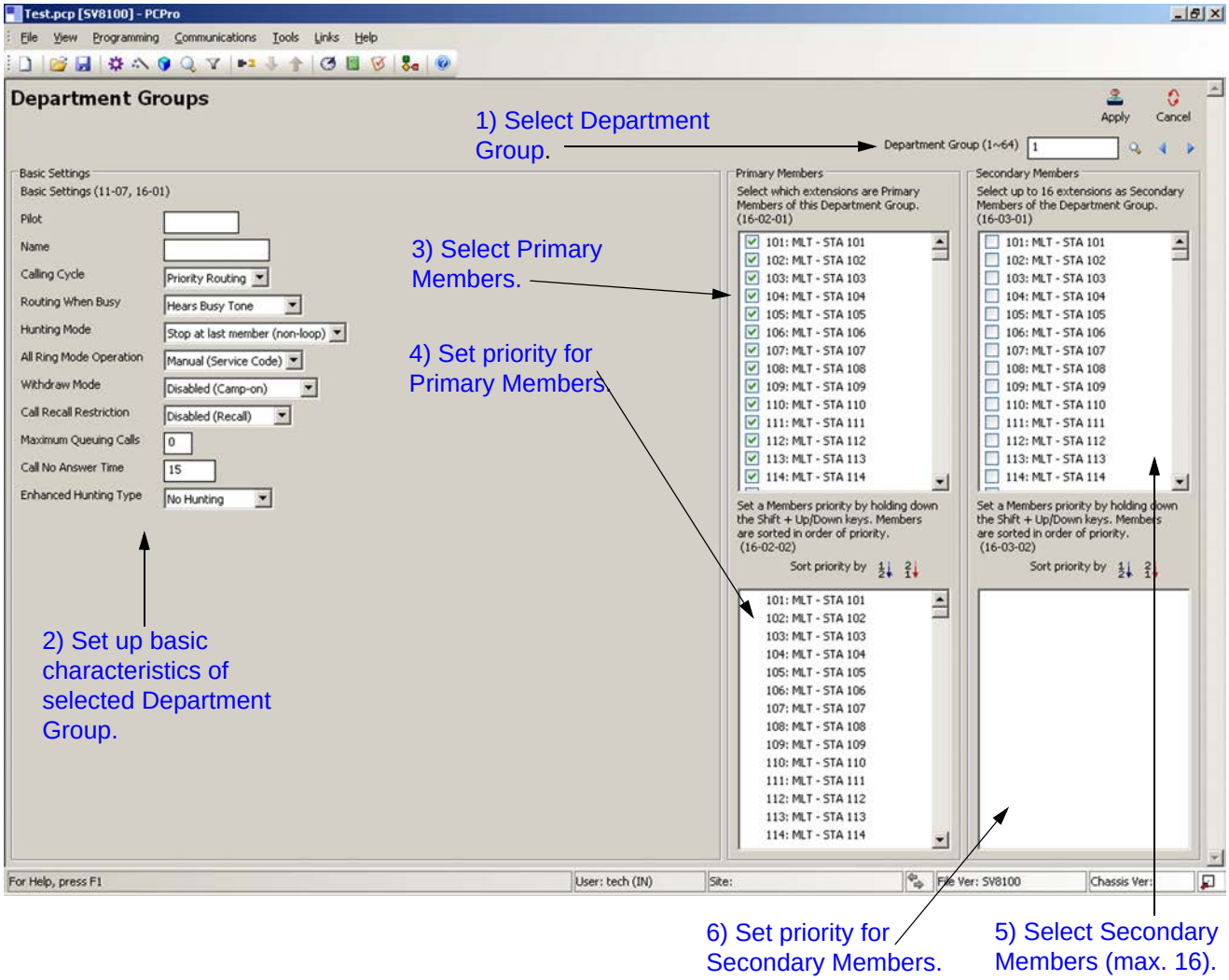


Figure 4-10 Standard View Department Groups

To setup up a Department Group:

1. Specify a **Department Group** to modify.
2. Specify basic characteristics (**Basic Settings**) of the Department Group.

   The **Basic Settings** section basic characteristics of the selected Department Group. These settings are linked with 16-01.

3. Select the extensions that are **Primary Members** of the Department Group.

   All extensions that are Primary Members of the selected Department Group are listed. Every extension must belong to one of the 64 available Department Groups. By default, all extensions are Primary Members of Department Group 1. By removing an extension from Department Group 1 it is automatically assigned to Department Group 64. These settings are linked with 16-02.

4. Specify the priority for the selected **Primary Members**.

   When an extension is selected as a Primary Member it automatically appears in the priority list (the list to the bottom of the Primary Member list). The priority of the selected extension can be modified by the following key combinations:

   - Shift + Up Arrow — Increase priority by 1
   - Shift + Down Arrow — Decrease priority by 1
   - Shift + Page Up — Increase priority by one page
   - Shift + Page Down — Decrease priority by one page
   - Shift + Home — Make highest priority
   - Shift + End — Make lowest priority

5. Select the extensions (maximum of 16) that are **Secondary Members** of the Department Group.

   All extensions that are Secondary Members of the selected Department Group are listed. A maximum of 16 extensions can be assigned as Secondary Members. These settings are linked with 16-03.

6. Specify the priority for the selected **Secondary Members**.

7. When an extension is selected as a Secondary Member it automatically appears in the priority list (the list to the bottom of the Secondary Member list). The priority of the selected extension can be modified by using the same key combinations as in the case of setting the priority for Primary Members.

SECTION 9 DID TRANSLATION TABLE

This screen combines system data relevant to the DID Translation Table and Trunk Groups using DID. These settings are used with the feature “Direct Inward Dialing”.

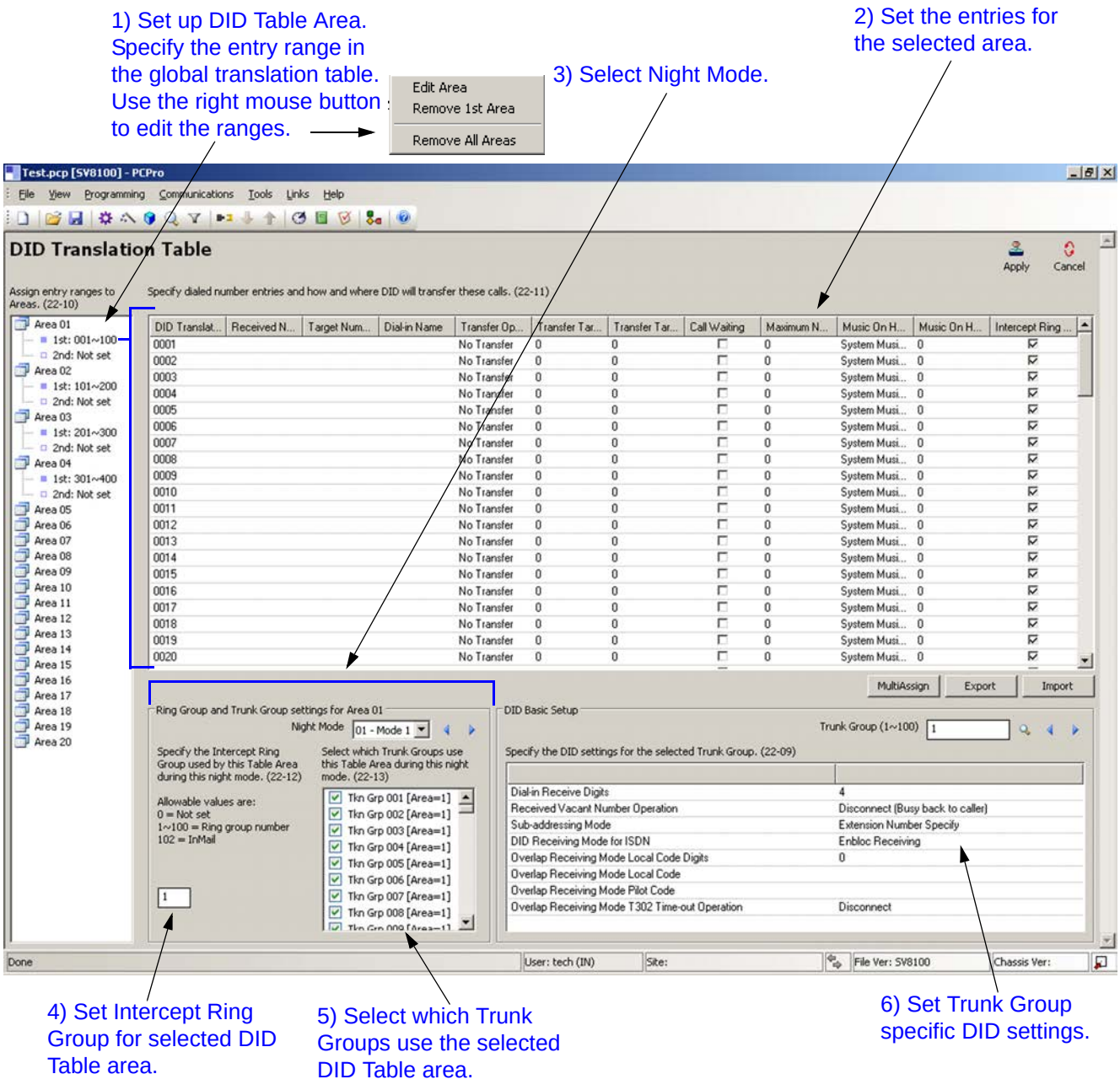


Figure 4-11 Standard View DID Translation Table

To setup the DID Translation Table and associate it with Trunk Groups:

1. Select and define a Table Area within the **DID Translation Table**.

   The DID Translation Table consists of 2000 entries that can be divided among 20 Table Areas, each being made up of a 1st and 2nd Area. Using the mouse, right click a Table Area to define its 1st and 2nd entry ranges it uses. These settings are linked with 22-10.

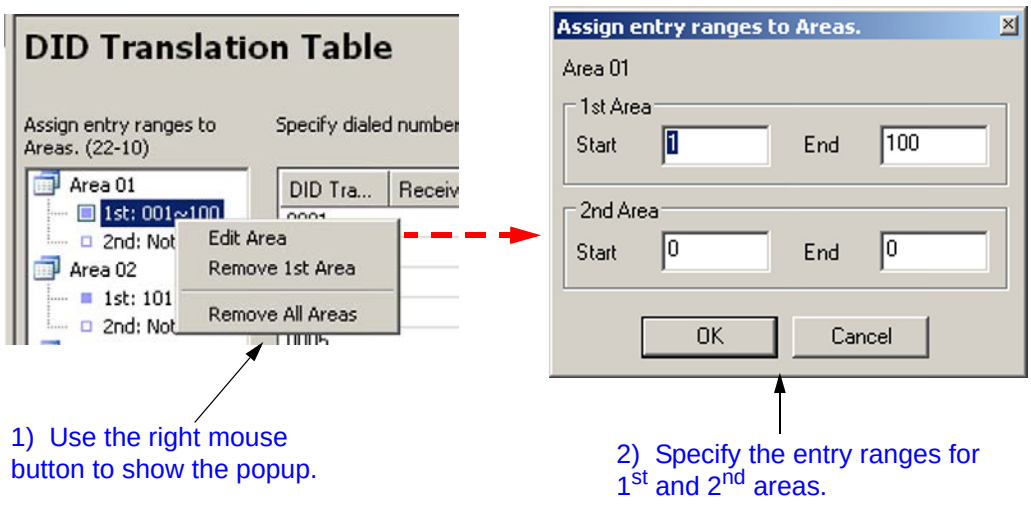


Figure 4-12 Standard View DID Table Area Edit Popups

   When a Table Area is selected, the grid to the right is updated with the new entry range. For example, selecting Area 01, 1st Area (entry ranges 001~100) will result in the grid showing the DID Table entries 001 to 100.

2. Specify the selected Table Area entries and how they are treated with DID.

   Table Area entries are located in the grid to the right of the Table Area list. It defines DID Table Area entries and how they are directed within the system. These settings are linked with 22-11.

3. Select the **Night Mode** to modify for DID.

   Assign the Trunk Groups that use the Table Area via this Night Mode selection. In addition, use this to help define the Intercept Ring Group calls get forward to during Night Modes. Do this by completing the following:

   - ❑ Select a Night Mode.
   - ❑ Select the Trunk Groups during this Night Mode that will use the selected Table Area.
   - ❑ Define the **Intercept Ring Group** calls that are forwarded during this Night Mode.

4. Specify the **Intercept Ring Group** to use by the Table Area during the selected Night Mode.

   Specifies if the call, during the selected Night Mode, is directed toward an Incoming Ring Group or voice mail. This setting only applies when the option is enabled in the associated DID Translation Table entry. This setting is linked with 22-12.

5. Select the **Trunk Groups** that use the Table Area during the selected Night Mode.

   This section lists the Trunk Groups that use the Table Area for DID during the selected Night Mode. These settings are linked with 22-13.

6. Specify the DID settings for the selected Trunk Group.

   The basic setup details for the Trunk Group DID settings are selected in this section. These settings are linked with 22-09.

SECTION 10 NIGHT MODE SWITCHING

This screen combines system data relevant to the Chassis feature “Night Service”.

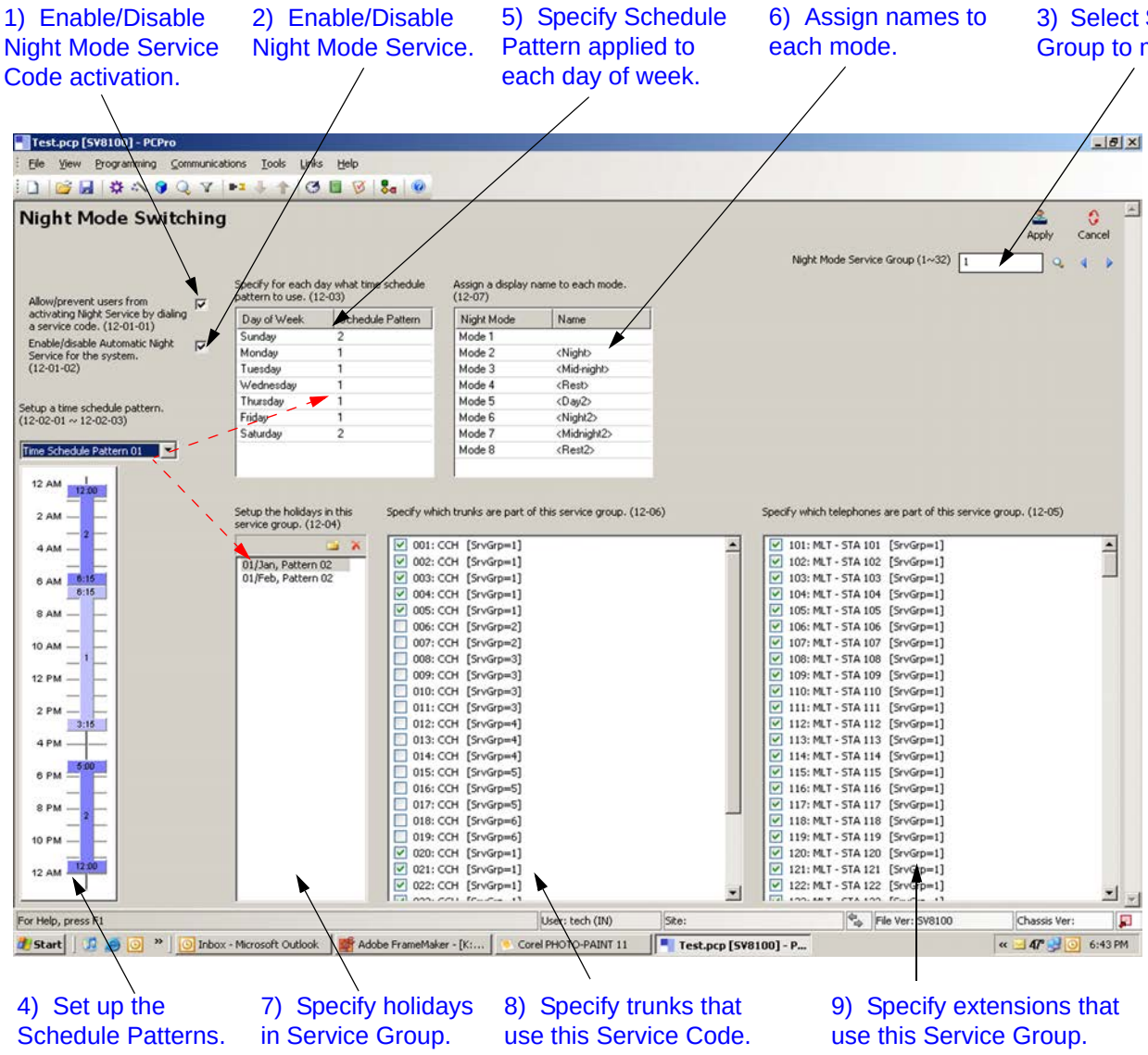


Figure 4-13 Standard View Night Mode Switching

To setup the Night Mode Switching options:

1. Enable/disable users from activating Night Mode Service via a service code.

   This selection enables/disables users from activating Night Mode Service via a service code. This setting is linked with 12-01-01.

   This is a system-wide setting and is applied across **ALL** Service Groups.

2. Enable/disable Automatic Night Mode Service.

   This selection enables/disables Night Mode Service for the system. This setting is linked with 12-01-01.

   This is a system-wide setting and is applied across **ALL** Service Groups.

3. Specify a **Night Mode Service Group (1~32)** to modify.

4. Define Schedule Patterns used by the selected Night Mode Service Group. Schedule Patterns are comprised of time frames that are associated to Night Modes.

   You can define up to 10 Schedule Patterns for the selected Night Mode Service Group. Schedule Patterns can be made up of 20 time frames. Each time frame is associated with a Night Mode. These settings are linked with 12-03.

   Refer to 10.1 Adding a Time Frame on page 4-23, 10.2 Removing a Time Frame on page 4-24, 10.3 Moving a Time Frame on page 4-24 and 10.4 Modifying a Time Frame on page 4-25.

5. Specify the Service Patterns applied to each day of the week.

   Define the Schedule Pattern used each day of the week by the selected Night Mode Service Group. These settings are linked with 12-03.

6. Assign a name to each Night Mode.

   This can be used to identify the time frame. Night Mode names defined here are referred to throughout the system. These settings are linked to 12-07.

7. Define public holidays and the Schedule Pattern used by the Night Mode Service Group on these days.

   These settings are linked with 12-04.

8. Select the trunks that are members of the Night Mode Service Group.

   These settings are linked with 12-06.

9. Select the extensions that are members of the Night Mode Service Group.

   These settings are linked with 12-05.

10.1 Adding a Time Frame

This section describes how to add a time frame to a schedule for night mode switching.

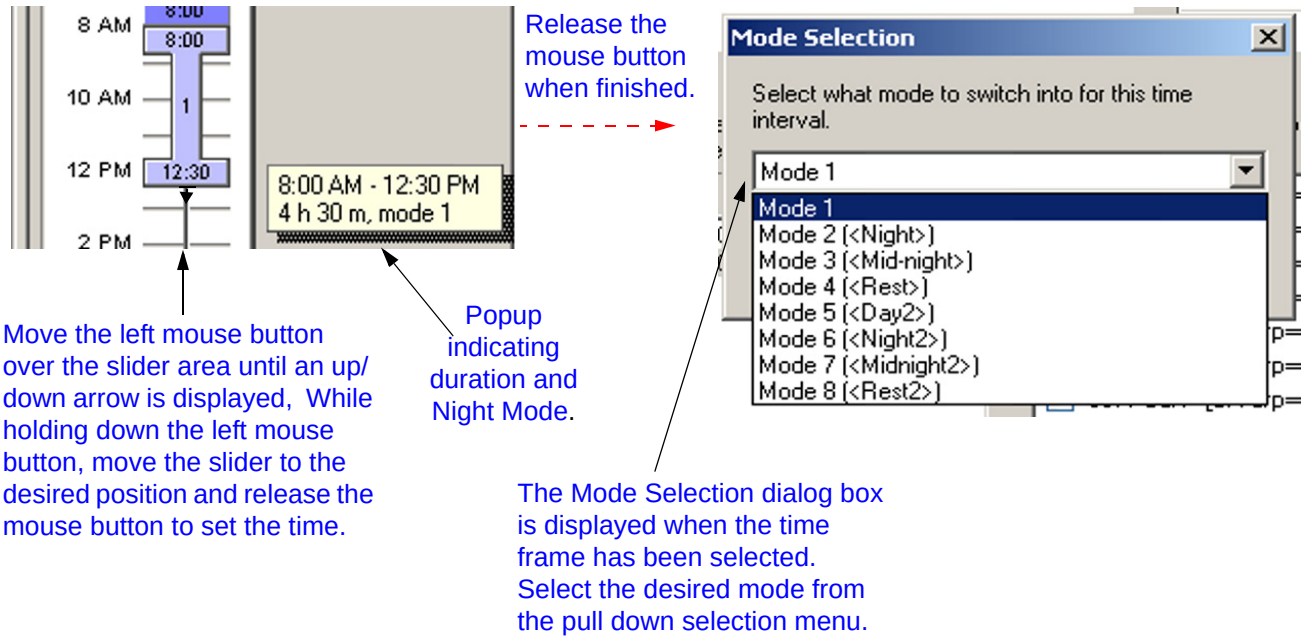


Figure 4-14 Standard View Night Mode Switching Adding Time Frame

To add a time frame in a Schedule:

1. Using the mouse on the Schedule Pattern bar, left click and drag from the starting time toward the end time. A colored bar appears defining this time frame. Keep the left mouse button pressed while dragging.
2. Release the left mouse button. A dialog then prompts for the Night Mode associated with this time frame.
3. Select a Night Mode associated with this time frame.

   The colored bar changes its color depending on the Night Mode defined.

   Each mode is assigned a different color. These colors are shown in Figure 4-15 Standard View Night Mode Switching Mode Colors on page 4-24.

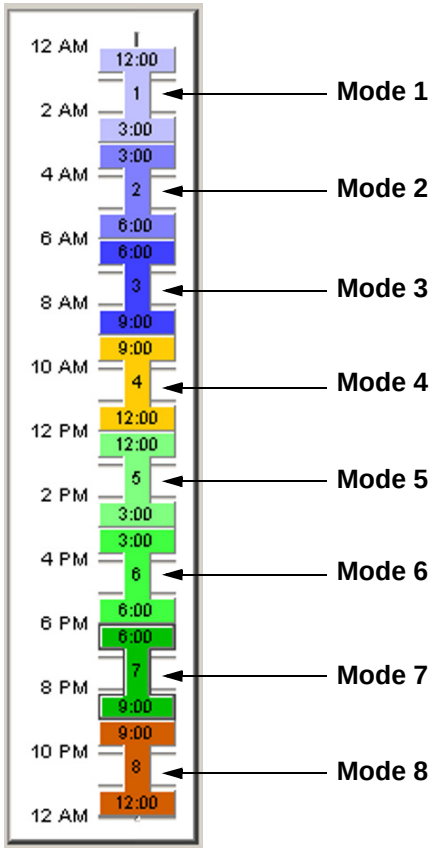


Figure 4-15 Standard View Night Mode Switching Mode Colors

10.2 Removing a Time Frame

To remove a time frame, select it then drag it either left or right off the Schedule Pattern bar. Alternatively, select the time frame and press the **Delete** key.

10.3 Moving a Time Frame

To move a time frame select it with the mouse and drag it to the desired position. Surrounding time frames can limit changes because time frames cannot overlap. To solve this problem either remove time frames or modify them.

10.4 Modifying a Time Frame

To modify a time frame in a Schedule Pattern:

1. Select the time frame to modify.
2. Place the cursor at the top/bottom of the time frame until it changes appearance.
3. Left click then drag from the starting/ending time to the desired change.

Surrounding time frames can limit changes because time frames cannot overlap. To solve this problem either remove existing time frames or modify them.

10.5 Time Frame Duration

To find out the duration of a time frame select it and then hold down the left mouse button. A popup appears indicating the duration and Night Mode.

10.6 Time Frame Night Mode

To find out the Night Mode of a time frame select it and then hold down the left mouse button. A popup appears indicating the duration and Night Mode.

SECTION 11 INCOMING RING GROUPS

This screen combines system data relevant to the feature “Incoming Ring Groups”.

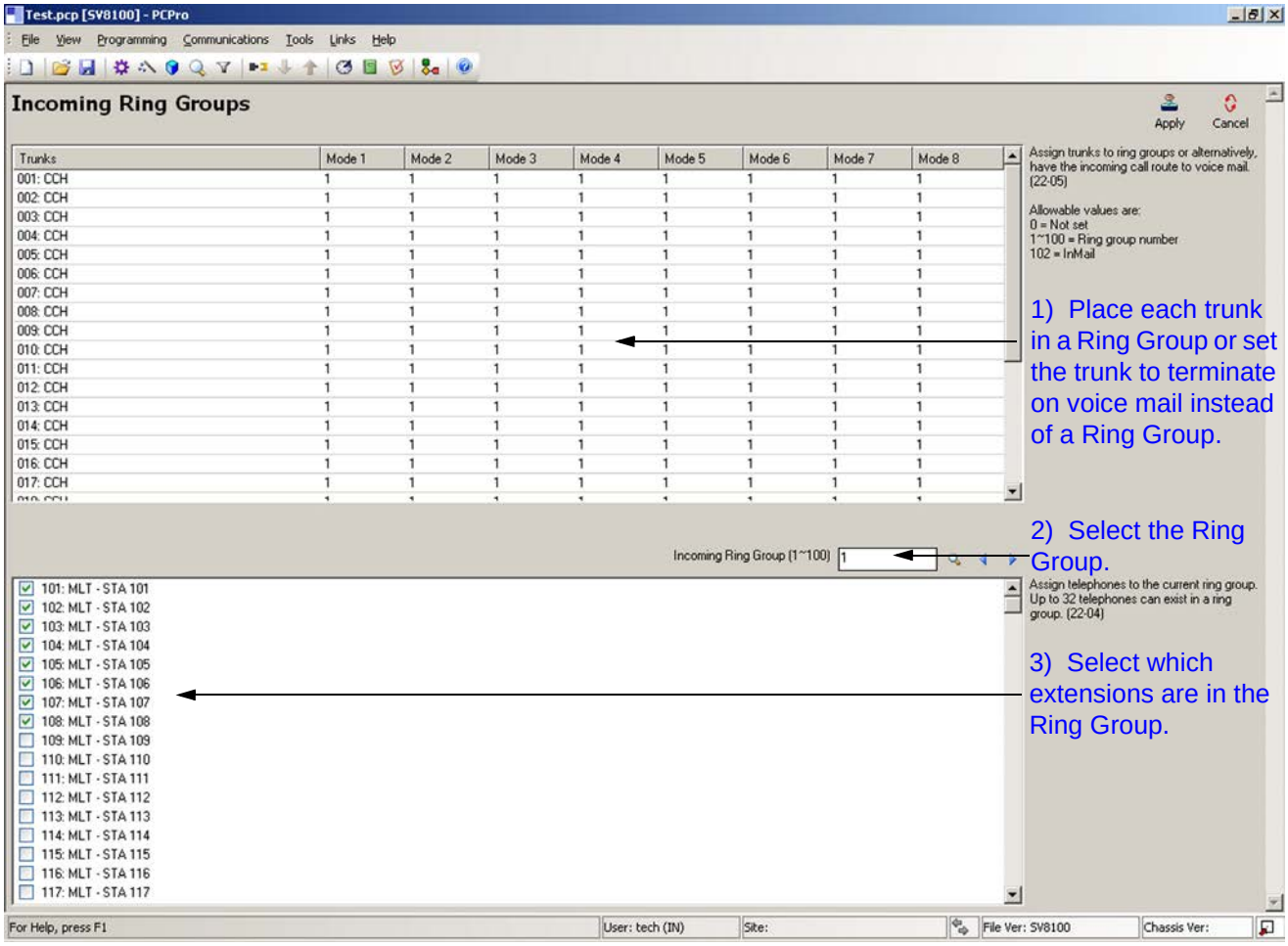


Figure 4-16 Standard View Incoming Ring Groups

To setup up an Incoming Ring Group:

1. For each trunk, specify the Incoming Ring Group of which it will be a member. Alternatively, route the call from the trunk to a voice mail type. Individual settings can be applied to each Night Mode.

   These settings are linked with 22-05.

2. Select the incoming Ring Group to which the trunks and extensions are assigned. You can use the right and left arrows to select the previous or next Ring Group (1~100).

3. Select the extensions that are members of the Incoming Ring Group.

   These settings are linked with 22-04.

SECTION 12 SYSTEM TIMERS

This screen allows you to set up system-wide timers.

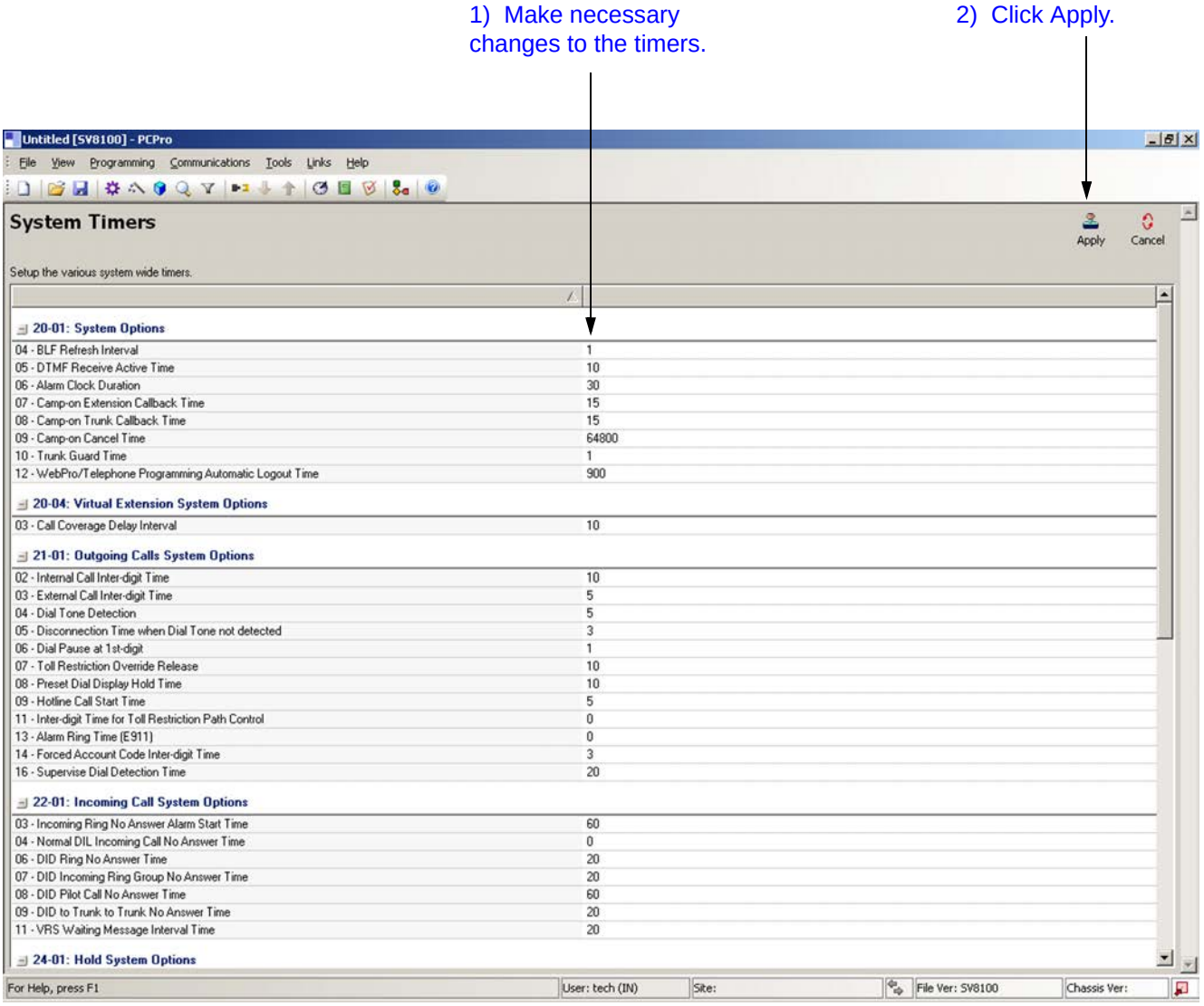


Figure 4-17 Standard View System Timers

The settings that can be changed on this screen include the individual timers.

To change the timer settings from the default:

1. Click the value to the right of the time you want to change.
2. Change the timer setting and click **Apply**.

SECTION 13 SYSTEM TIMER CLASSES

This screen combines system data relevant to Timer Classes. Timer Classes detail sets of operation times. Trunks and extensions can be assigned as members of these classes for each of the system Night Modes.

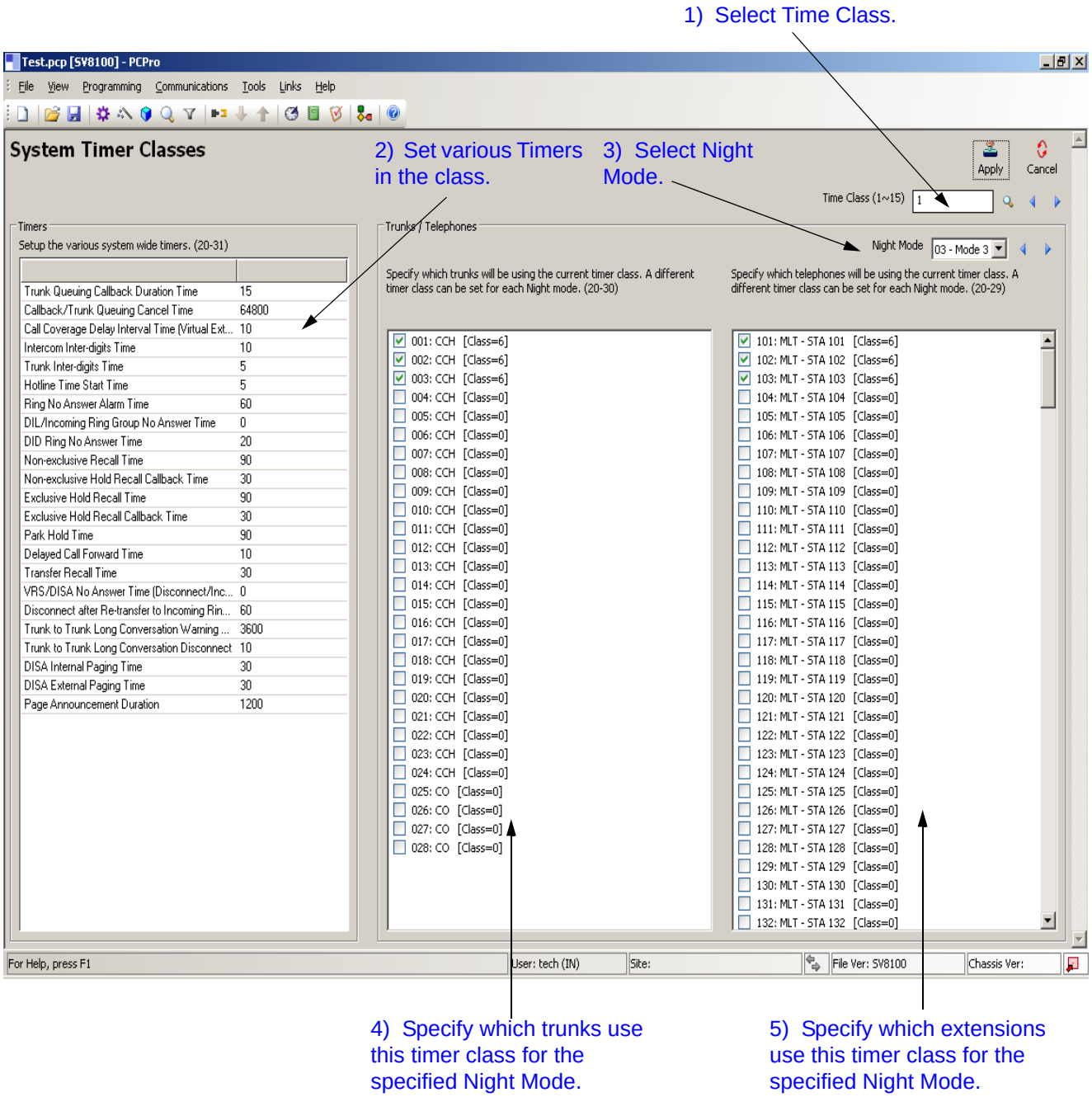


Figure 4-18 Standard View System Timer Classes

The settings that can be changed on this screen include:

- **Time Class**: The Timer Class to which timers are assigned.
- **Night Mode**: The Night Mode assigned for night mode switching.
- **Timers**: The system wide timers that can be changed.
- **Trunks/Telephone**: Lists the trunks/telephones that are members of the class during the selected Night Mode.
- **Extensions**: Lists the extensions that are members of the class during the selected Night Mode.

To setup up a Timer Class complete the following:

1. Specify a **Time Class (1~15)** to modify.
2. Set the various timers for the specified Time Class.

   These settings are linked with 20-31. (All times are in expressed in seconds.)
3. Select a Night Mode.
4. Select the trunks/telephones that are members of the Time Class during the selected Night Mode.

   These settings are linked with 20-30.
5. Select the telephone extension that will use members of the Time Class during the selected Night Mode. A different Time Class can be set to each Night Mode.

   These settings are linked with 20-29.

SECTION 14 TRUNK ACCESS MAP

This screen combines system data relevant to the Trunk Access Map. The Trunk Access Map administers the usage of trunks by the extension. Extensions can be assigned to one of the 200 Access Maps for each of the system Night Modes.

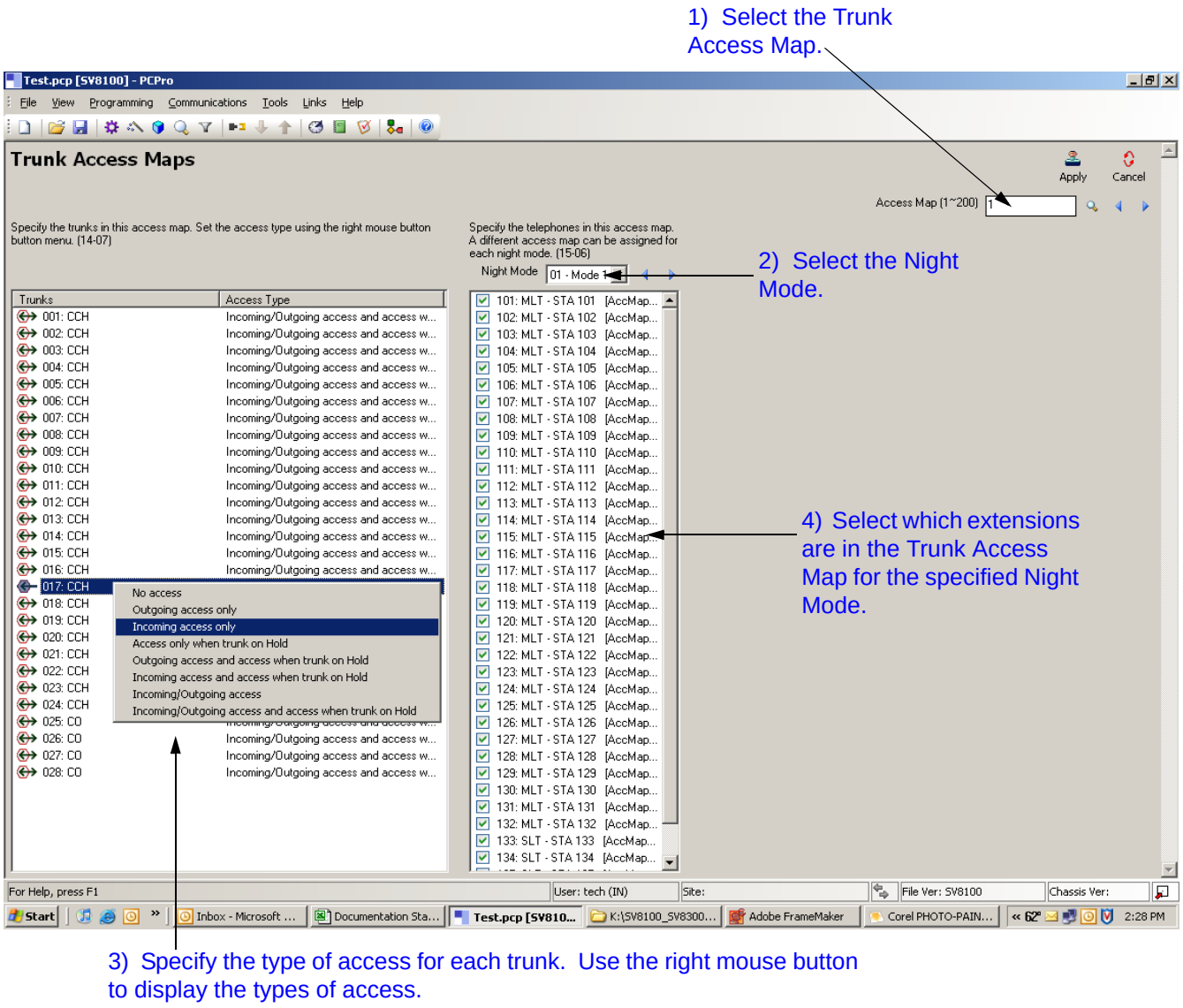


Figure 4-19 Standard View Trunk Access Map

To setup a Trunk Access Map complete the following:

1. Specify a trunk **Access Map (1~200)** to modify.
2. Select a **Night Mode**.
3. Specify the access type for each trunk using the Trunk Access Map.

   To modify the access type, right click the trunk then select an access type from the popup menu. These settings are linked with 14-07.

   The various access types are listed below:

Access Type	Image
No access	
Outgoing access only	
Incoming access only	
Access only when trunk on hold	
Outgoing access when trunk on hold	
Incoming access when trunk on hold	
Incoming/outgoing access	
Incoming/outgoing access when trunk on hold	

4. Select the extensions that use the Trunk Access Map during the selected Night Mode.

   These settings are linked with 15-06.

SECTION 15 TRUNK GROUPS

This screen combines system data relevant to Trunk Groups. Trunk Groups prioritize the use of a group of trunks. Priority of Trunk Groups can be done via the Route Table. A Route Table entry can then be used by trunks and extensions.

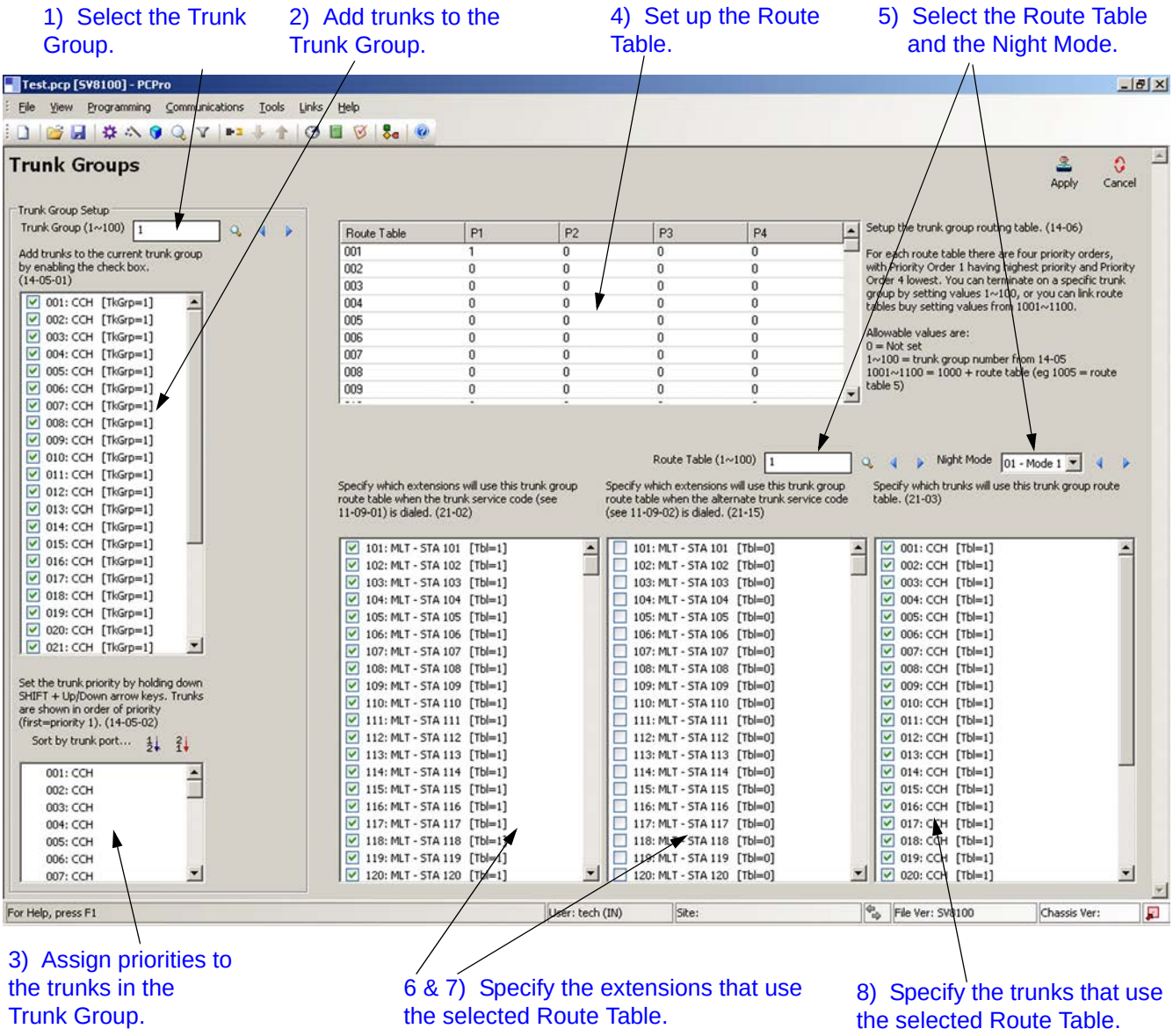


Figure 4-20 Standard View Trunk Groups

To setup a Trunk group complete the following:

1. Specify a **Trunk Group (1~100)** entry to modify.

2. Select the trunks that are members of the Trunk Group.

   These settings are linked with 14-05-01.

3. Prioritize trunks by ordering them in preference.

   These settings are linked with 14-05-02.

   When a trunk is selected as part of the Trunk Group it automatically appears in the priority list (the list to the bottom of the Trunk Group list). The priority of the selected trunk can be modified using the following key combinations:

   - Shift + Up Arrow — Increase priority by 1
   - Shift + Down Arrow — Decrease priority by 1
   - Shift + Page Up — Increase priority by one page
   - Shift + Page Down — Decrease priority by one page
   - Shift + Home — Make highest priority
   - Shift + End — Make lowest priority

4. To setup a Route Table entry:

   This entry defines four destinations where the Route Table entry directs calls. Calls can terminate on a Trunk Group or flow on to another entry in the Route Table.

   Destinations are prioritized 1~4 with 1 being the highest and 4 being the lowest. These settings are linked with 14-06.

5. To assign the extensions and trunks that use the Route Table Entry, select a **Route Table (1~100)** and a **Night Mode**.

6. Select the extensions that use the Route Table entry during the selected Night Mode.

   This applies to extensions using the Trunk Service Code to access trunks. These settings are linked with 21-02.

7. Select the extensions, during this Night Mode, that use the Route Table entry via the alternate Trunk Access Code.

   This applies to extensions using the alternate Trunk Service Code to access trunks. These settings are linked with 21-15.

8. Select the trunks, during this Night Mode, that use the Route Table entry.

   These settings are linked with 21-03.

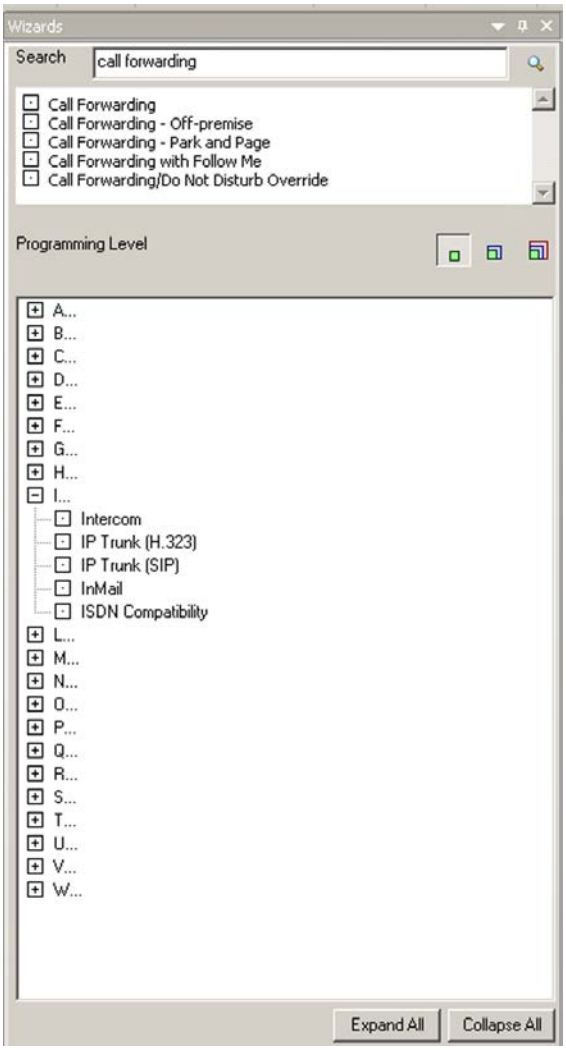
-- NOTES --

CHAPTER 5 *Wizards View*

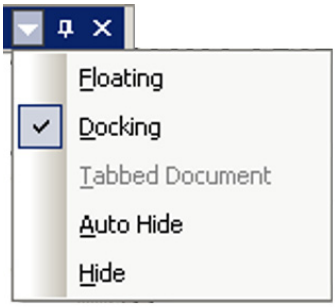
SECTION 1 OVERVIEW

Wizards chronologically group System Data, guiding users in the successful setup of a feature. Wizards are identified by their name. This name indicates the feature to which the Wizard is related.

Wizard System Data is grouped by screens. Complete each screen in a Wizard to complete a feature.



Window View: Clicking this icon displays the flyout, which allows you to select how you want the Wizard submenu displayed. Right mouse clicking also displays this menu.



Auto Hide: Clicking this icon hides the Wizard submenu list and docks the tabs on the left side of the screen.

Close: Clicking this icon closes the Wizard submenu list and tabs.

Figure 5-1 Wizard Submenu

SECTION 2 ACCESSING WIZARD VIEW

To access Wizard View complete one of the following:

- ❑ Select the menu item **Programming > Wizards.**

  or…

- ❑ Select the toolbar icon depicting the wand  .

  or…

- ❑ Press **F10**.

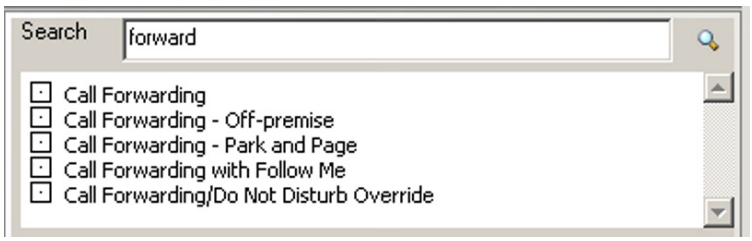
  or…

- ❑ If the Wizard submenu area is currently open, select the **Wizard** tab depicting the magic wand, located at the bottom on the submenu.

The Wizard View Menu appears in the submenu area. Wizards are ordered alphabetically. Refer to Figure 5-1 Wizard Submenu. You can use the **Expand All** to view all of the items under each letter of the alphabet or **Collapse All** to return to letters of the alphabetic listing. You can individually expand or collapse a letter of the alphabet by pressing ⊞ or ⊟ .

SECTION 3 SEARCHING FOR A FEATURE

You can use the search function of the Wizard to locate a specific feature or use a keyword to find a group of related features. The example below shows entering the exact feature name to locate the feature and entering a keyword to locate a group of similar features. Start the search by either pressing the magnifying glass icon or pressing **Enter**.



SECTION 4 PROGRAMMING LEVELS

There are three levels in which feature programming is grouped. You can apply program filters to system data programming:

- ❏ Level 1 – are the most commonly assigned programs for a feature.
- ❏ Level 2 – are the next most commonly assigned programs for a feature.
- ❏ Level 3 – are programs that are not often assigned for a particular feature and require an expert level working knowledge of the system to be properly assigned.

To show the level of programming for a feature:

1. Press the desired level to view the programs assigned at that level.
2. Select a feature.

SECTION 5 USING WIZARDS

When you select a feature from the Wizard list the associated screen is displayed, allowing you to program the feature. If there is more than one screen that is programmed for the feature, you can use the **Next** and **Back** navigational buttons to switch between screens or you can use the **View page in wizard** pulldown menu.

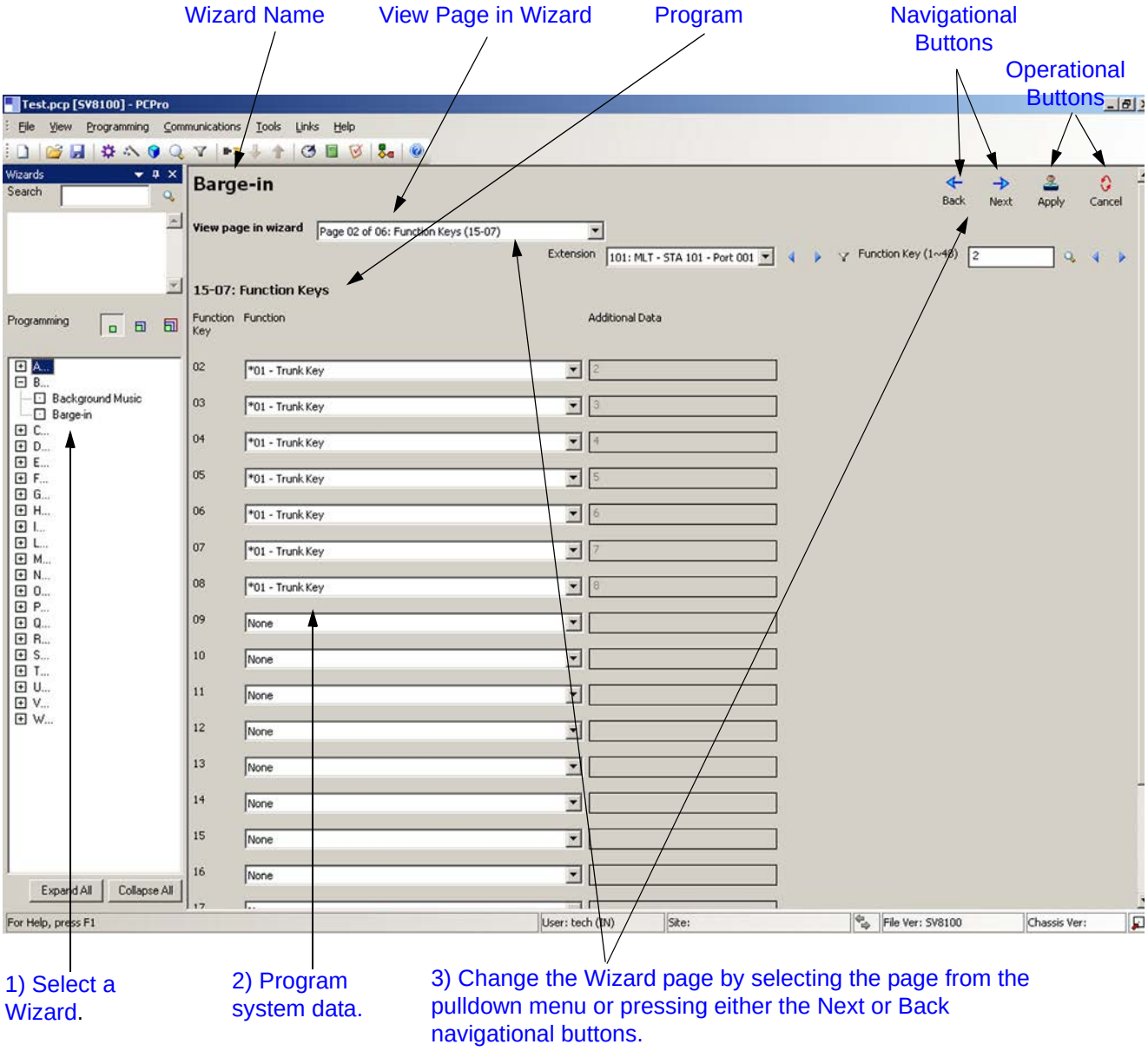


Figure 5-2 Wizard Programming

To use a Wizard to program a feature:

1. Select the feature Wizard from the Wizard View submenu.
2. Modify the desired settings on the screen.
3. Navigate to the next screen in the Wizard by either selecting the desired page from the **View page in wizard** or by pressing the **Next** or **Back** navigational buttons.
4. Complete steps 2 and 3 until all screens are finished.
5. Apply the changes.

   When programming a Wizard, changes to system data are applied:

   - when you press the **Apply** button.
   - when you move to a different page in the Wizard.
   - when you exit the Wizard, except in the case when the **Cancel** button is pressed.

The Cancel button only discards changes made on the current screen. ***It will not undo all changes made in the Wizard****.*

-- NOTES --

CHAPTER 6 *System Data View*

SECTION 1 OVERVIEW

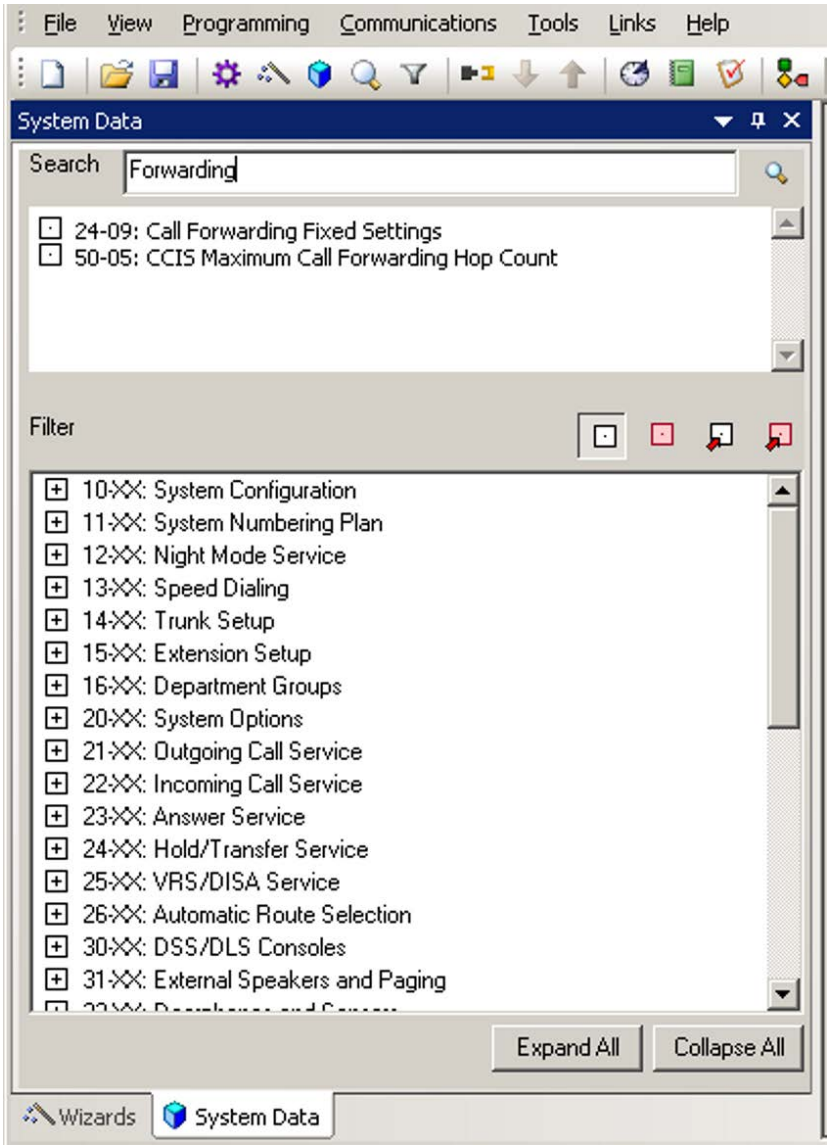
System Data represent systems settings as per the categorization used by main software. This categorization separates settings into System Data items called ‘PRGs’ (programs). PRGs are identified by their ID and name. The ID and name indicate what settings the System Data is related to. An example of a PRG identifier can be seen below, ‘10-02’ is the ID and ‘Location Setup’ is the name:

10-02: Location Setup

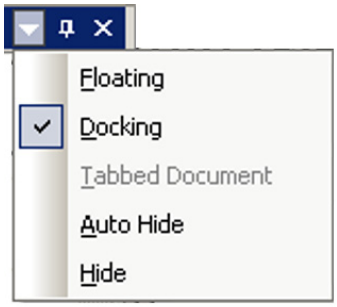
PRGs are grouped by their relationship into ‘PRG Groups’. PRG Groups are identified by their ID and name. The ID and Name indicate what settings the System Data is related to. An example of a PRG identifier can be seen below, ‘10-XX’ is the ID and ‘System Configuration’ is the name:

10-XX: System Configuration

Since System Data Programming does not group together the programs for a function/feature as with Wizards and Standard screens, System Data Programming is intended for advanced users of PCPro who are very familiar with programming a system.



Window View: Clicking this icon displays the flyout, which allows you to select how you want the System Data submenu displayed. Right mouse clicking also displays this menu.



Auto Hide: Clicking this icon hides the System Data submenu list and docks the tabs on the left side of the screen.

Close: Clicking this icon closes the System Data submenu list and tabs.

Figure 6-1 System Data Submenu

SECTION 2 ACCESSING SYSTEM DATA VIEW

To access System Data View, complete one of the following:

- ❑ Select the menu item **Programming > System Data**.

  or…

- ❑ Select the toolbar icon depicting the blue block .

  or…

- ❑ Press **F1**.

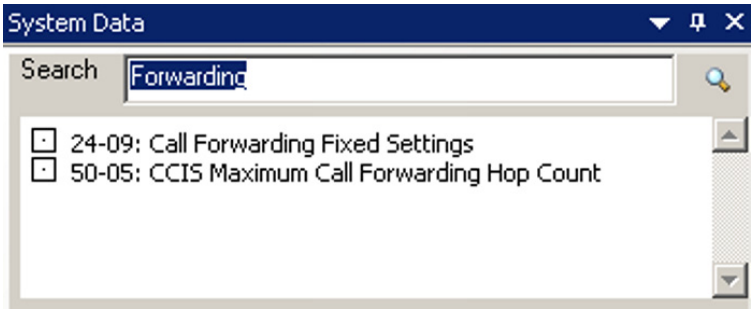
  or…

- ❑ If the Programming submenu area is currently open, select the **System Data** tab depicting the blue box, located at the bottom on the submenu.

The System Data View Menu appears in the submenu area. System Data is grouped by PRG Groups and ordered numerically by ID. You can use the Expand All to view all of the items under each Program Number or Collapse All to return to the numeric program listing. You can individually expand or collapse a program number pressing ⊞ or ⊟ .

SECTION 3 SEARCHING FOR A PROGRAM

You can use the search function of Program Data to locate a specific program or use a keyword to find a group of related programs. The example below shows entering a program number to locate a specific program and entering a keyword to locate a group of similar programs. Start the search by either pressing the magnifying glass icon or pressing **Enter**.



SECTION 4 SYSTEM DATA PROGRAM FILTERING

When selecting programs from the system data list, you can select from the following filters:

- ❑ – shows all system data.
- ❑ – shows only unsaved system data.
- ❑ – show only system data that needs to be uploaded.
- ❑ – shows only system data that is unsaved and needs to be uploaded.

To show the level of programming for a feature:

1. Select a program.
2. Press the desired filter and view the filtered programs.

SECTION 5 USING SYSTEM DATA

System Data screens are intended for advanced users who are very familiar with using PCPro. If you are not familiar with PCPro, you should use either the Standard View or Wizards. Standard View and Wizards are grouped together to help walk you through system data necessary for programming various features of the system.

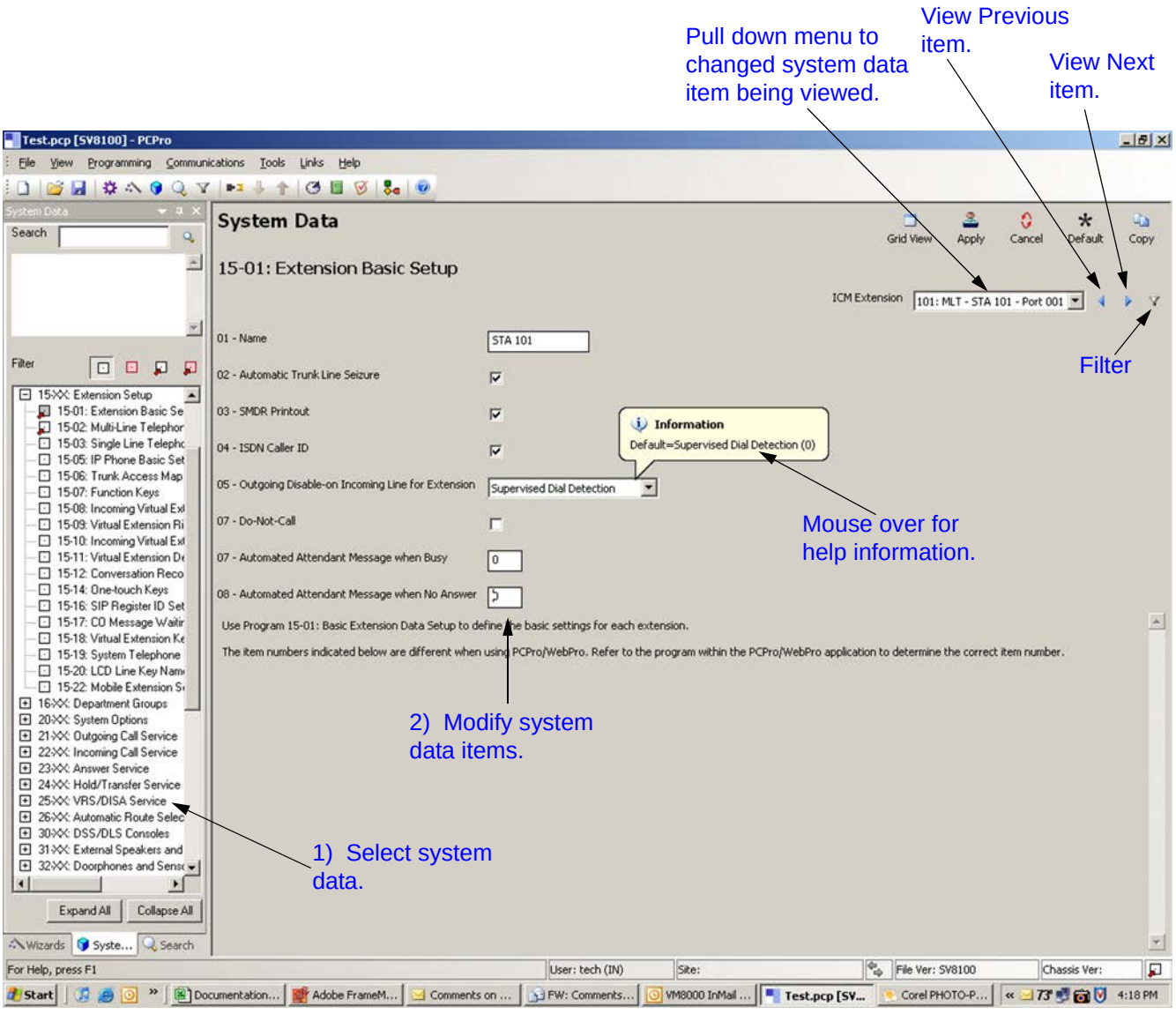


Figure 6-2 System Data Programming

To modify system data:

1. Select a PRG from the System Data View submenu.
2. Modify the desired settings on the screen.
3. Press the **Apply** button to save the changes.

When programming system data, changes are applied:

- ❑ when the **Apply** button is pressed.
- ❑ when the you change the system data item link.
- ❑ when you modify the current system data item filter.
- ❑ when you exit System Data View, except when the **Cancel** button is pressed.

-- NOTES --

CHAPTER 7 *Menu and Toolbar Reference*

SECTION 1 OVERVIEW

This chapter provides a table that can be used as a reference between the menus, toolbar icons and keyboard shortcuts. Most functions have more than one method for accessing it. Any submenus are listed with their associated menu.

SECTION 2 MENUS AND TOOLBARS

The menu (located at the top of the screen) allows access to a list of functions provided by PCPro. The toolbar provides a graphical icon interface to some of the more commonly used functions.

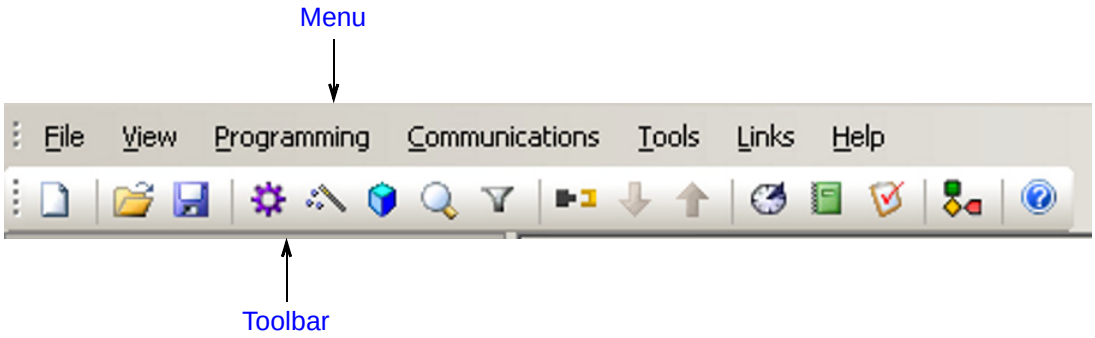


Figure 7-1 Menu and Toolbar

Table 7-1 Menus lists the menu options, provides a brief description of the menu and shows an graphical representation of the menu display. Some menu items have a flyout, indicated by the ▸, which provides additional options for that selection.

Table 7-1 Menus

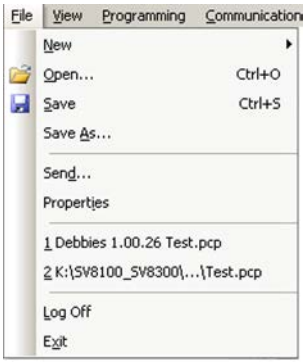
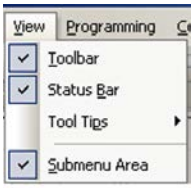
Menu	Description	Menu Display
File	This menu provides access to: ❍ functions related to creating and saving files ❍ sending an e-mail with an active configuration attached ❍ displaying the properties for an active configuration ❍ allowing users to log off and log in as a different user ❍ exiting PCPro	
View	This menu allows you to: ❍ show/hide the Toolbar ❍ show/hide the Status Bar ❍ show/hide the Tool Tips ❍ show/hide the Submenu Area	
Programming	This menu provides access to: ❍ view/edit system settings via the Standard screens ❍ view/edit system settings via the Wizards ❍ view/edit system settings via System Data ❍ search system settings ❍ view/edit blade configurations ❍ list unregistered telephones ❍ view/edit settings for Telephone Types ❍ list unregistered trunks ❍ set the system time ❍ make multiple assignments for Account Codes, Appearance Keys, Extensions, and Function Keys	

Table 7-1 Menus (Continued)

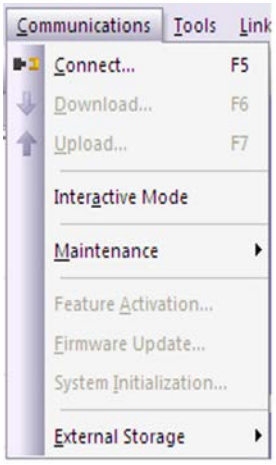
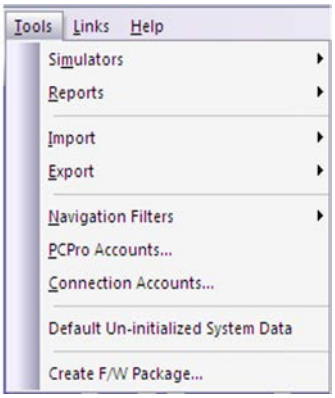
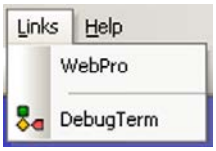
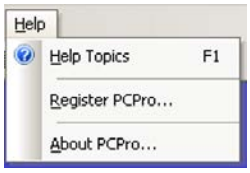
Menu	Description	Menu Display
Communications	This menu allows you to: ❍ connect/disconnect to/from the system via PCPro ❍ download (transfer settings) from the system to PCPro ❍ upload (transfer settings) from PCPro to the system ❍ connect to the system in Interactive Mode ❍ view system maintenance logs for alarms, call charges, resources and traffic ❍ register features ❍ update main system firmware ❍ reset (reinitialize) the system ❍ backup a database from or restore a database to a flash key	
Tools	This menu provides access to: ❍ run ARS Simulator ❍ view/generate Reports ❍ import DID translation tables and speed dial settings ❍ export DID translation tables, speed dial settings and DESI label data ❍ apply Navigation filters for extensions and trunks ❍ view/edit PCPro Accounts ❍ view/edit Connection Accounts ❍ default un-initialized system data ❍ create firmware package	
Links	This menu allows you to: ❍ launch WebPro ❍ launch debug terminal ❍ launch any other NEC software (ACD Server, ACD Agent client, etc.)	
Help	This menu provides access to: ❍ online documentation ❍ register your PCPro software ❍ display the application version, the version and copyright date for the main software to which PCPro is connected	

Table 7-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference provides a list of the main menu items listed on the menu bar. Any associated submenus are listed in the Submenu Level 1, Submenu Level 2 and Submenu Level 3 columns. If a toolbar icon or shortcut key is available for the menu item, it is listed in the Toolbar Icon and Shortcut Key Sequence columns.

Table 7-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference

Main Menu Item	Submenu Level 1 Item	Submenu Level 2 Item	Submenu Level 3 Item	Toolbar Icon	Shortcut Key Sequence
File	New	SV8100 North America	SV8100 R9.0		Ctrl + N
			SV8100 R8.0		
			SV8100 R7.0		
			SV8100 R6.0		
			SV8100 R5.0		
			SV8100 R3.0		
			SV8100 R2.5		
			SV8100 R2.0		
			SV8100 R1.1		
			SV8100 R1.0		
			SV8100 R9.0 (UX5000 defaults)		
		IPKII North America	V2100		
			V2000		
			V1600		
			V1500		
			V1100		
			V1000		
	Open…				Ctrl + O
	Save				Ctrl + S
	Save As…				
	Send				
	Properties				
	Log off				

Table 7-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference (Continued)

Main Menu Item	Submenu Level 1 Item	Submenu Level 2 Item	Submenu Level 3 Item	Toolbar Icon	Shortcut Key Sequence
	Exit				
View	Toolbar				
	Status Bar				
	Tool Tips	Display Tool Tips			
		Display for 5sec			
		Display for 10sec			
		Display for 20sec			
		Display for 30sec			
	Submenu Area				

Table 7-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference (Continued)

Main Menu Item	Submenu Level 1 Item	Submenu Level 2 Item	Submenu Level 3 Item	Toolbar Icon	Shortcut Key Sequence
Programming	Standard				F9
	Wizards				F10
	System Data				F11
	Search				F3
	Card Configuration				
	Unregistered Phones	IP Phone List			
		Mobile Extension List			
		Unused Phone List			
	Telephone Types				
	Unregistered Trunks	Unused Trunk List			
	Time Settings				
	MultiAssign	Account Codes…			
		Call Appearance Keys…			
		Direct Inward Dial (DID)...			
		Extension Numbers…			
		Function Keys…			

Table 7-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference (Continued)

Main Menu Item	Submenu Level 1 Item	Submenu Level 2 Item	Submenu Level 3 Item	Toolbar Icon	Shortcut Key Sequence
Communications	Connect/ Disconnect…				F5
	Download…				F6 Ctrl + D
	Upload…				F7 Ctrl + U
	Interactive Mode				
	Maintenance	Alarms			
		Call Charge			
		Resource			
		Traffic			
		DIM File Download			
	Feature Activation…				
	Firmware Update…				
	System Initialization...				
	External Storage	Backup			
		Restore			
Tools	Simulators	ARS Simulator			
	Reports	Call Appearance Keys			
		Class of Service			
		Maintenance	Alarms		
			Other		
		Modification History...			
		Non Default Value...			
		Numbering Plan			
		System Configuration			

Table 7-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference (Continued)

Main Menu Item	Submenu Level 1 Item	Submenu Level 2 Item	Submenu Level 3 Item	Toolbar Icon	Shortcut Key Sequence
Tools (continued)	Reports (continued)	System Data…			
		Verify…			F8
		Feature Activation			
	Import	DID Table...			
		Speed Dials…			
		IPK Converted File			
		IPKII PCPro File			
	Export	DID Table...			
		Speed Dials…			
		DESI Labels...			
	Navigation Filters	Extension...			
		Trunks...			
	PCPro Accounts…				
	Connection Accounts…				
	Default Un-initialized System Data				
	Create F/W Package				
Links	WebPro				
	DebugTerm				
Help	Help Topics				F1
	Register PCPro…				
	About PCPro				

-- NOTES --

APPENDIX A *MultiAssign*

SECTION 1 OVERVIEW

To shorten the time needed to program certain system data, PCPro provides a series of special purpose dialogs. These dialogs enable you to set multiple values with ease.

SECTION 2 ACCESSING MULTIASSIGN DIALOGS

To access the various dialogs available for the MultiAssign option, select **Programming > MultiAssign** from the toolbar (refer to Figure A-1 Accessing the MultiAssign Dialogs on page A-2). Select the desired option for assigning:

- ❑ Account Codes
- ❑ Call Appearance Keys
- ❑ Direct Inward Dialing
- ❑ Extension Numbers
- ❑ Function Keys

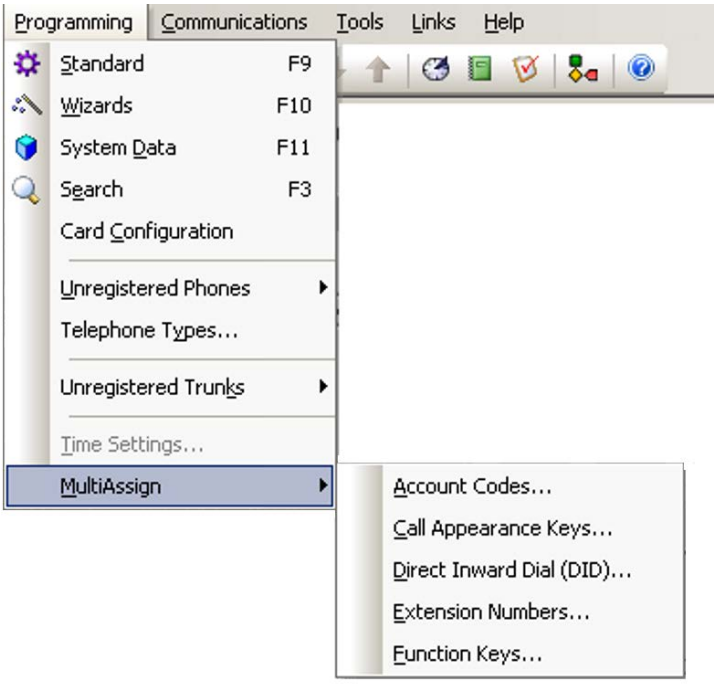


Figure A-1 Accessing the MultiAssign Dialogs

SECTION 3 ASSIGNING ACCOUNT CODES

The Account Codes multi-assignment dialog enables the user to set a range of account codes. This saves valuable time over having to enter each account code individually.

The Account Codes dialog box is accessed by selecting **Programming > MultiAssign > Account Codes** from the toolbar.

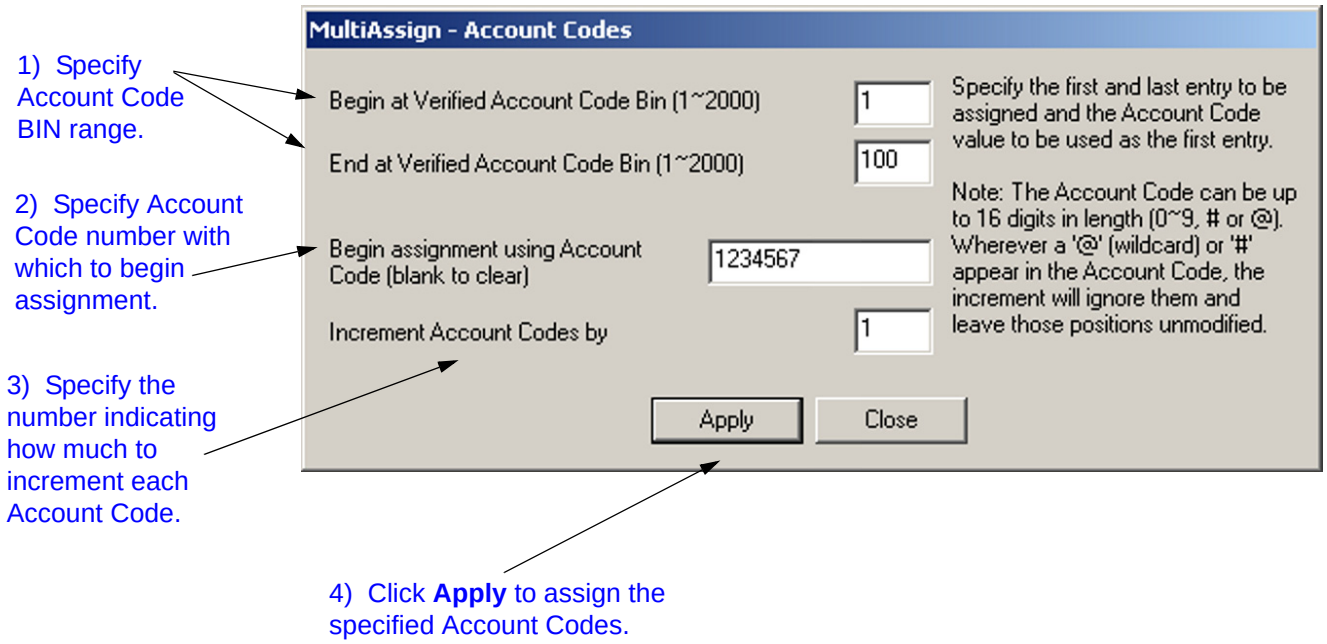


Figure A-2 MultiAssignAccount Codes

To assign a range of account code BINs with numbers:

1. Specify the begin/end BIN range over which to iterate.
2. Specify the account code number to being the assignment.
3. Specify by how much each account code is to be incremented. For example, a value of 2 means accounts codes will increment by 2 for each BIN (i.e. 0001, 0003, 0005…).
4. Click the **Apply** button to trigger the assignment.

Example

To assign BINs 001 ~ 010 with account codes 00001 ~ 00019 in increments of 2:

1. Place a 1 in the *Begin at Verified Account Code Bin* edit box.
2. Place a 10 in the *End at Verified Account Code Bin* edit box.
3. Place 00001 in the *Begin the assignment use the Account Code* edit box.
4. Place 2 in the *Increment Account Codes by* edit box.
5. Click **Apply**.

   The result will be…

   BIN 001 = 00001
   BIN 002 = 00003
   BIN 003 = 00005
   …
   BIN 010 = 00019

SECTION 4 ASSIGNING CALL APPEARANCE KEYS

The Call Appearance Keys multi-assignment dialog enables you to set up a group of function keys as CAP keys for multiple telephones. The dialog can be used to set up many telephones to have the *same* set of CAP keys or unique CAP keys across the telephone group.

The dialog is found under the menu item **Programming > MultiAssign > Call Appearance Keys**.

When using the Call Appearance Keys dialog, you should begin by deciding how the CAP keys should be setup. The choices are:

1. Same on all phones.
2. Unique CAP number to each key.

4.1 Assigning the Same CAP Keys on All Telephones

In this mode, the *same* CAP keys appear on all the selected telephones.

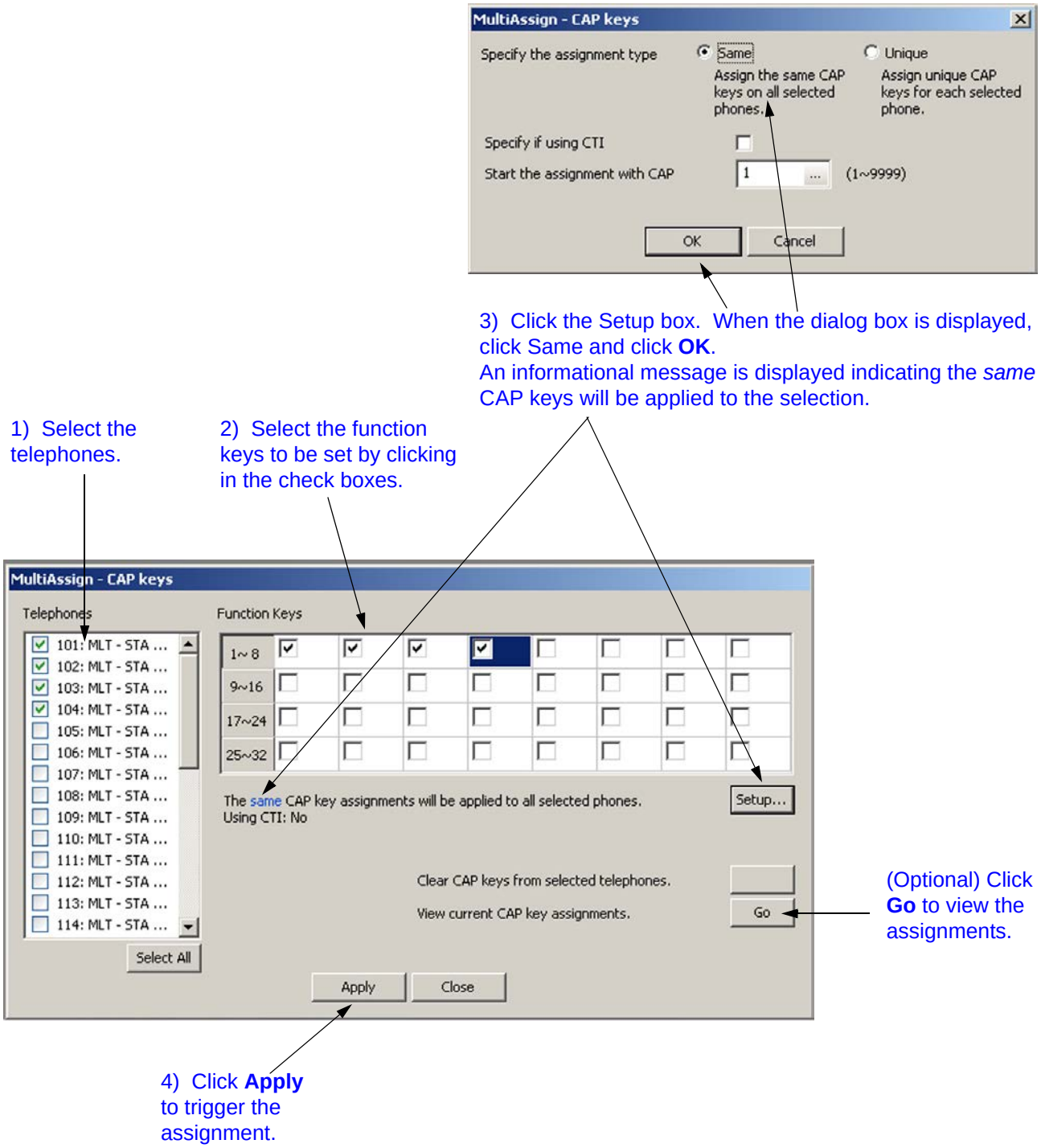


Figure A-3 MultiAssignmentCAP Keys (Same)

To assign a group of telephones:

*If you want to view previous assignments, press the **Go** button.*

1. Select the telephones from the **Telephones** list by clicking the check boxes.

2. Select the function keys that you want to assign to the selected telephones by clicking the **Function Key** checkboxes.

3. Click the **Setup** box to display the assignment type dialog box. Click the **Same** button and click **Specify if using CTI** checkbox if appropriate. Enter the starting CAP key number in the **Start the assignment with CAP** field.

4. Click **OK**. The main CAP key assignment dialog is returned with the assigned numbers displayed.

   If required, edit the actual value for each function key that is displayed in the Function key checkbox.

5. Click the **Apply** button to trigger the assignments.

Example

To setup extensions 101 ~105 to have function keys 1~8 set as CAP Keys 0010~0017 follow the steps below:

✎ *This example assumes CAP numbers 0010 and onwards are not used and CAP number 0010 is the first free call appearance number.*

1. Select extensions 101~105 from the telephone list.

2. Click function keys 1~8 (i.e., click all items in the first row of function keys).

3. Click the **Setup** box to display the assignment type dialog box. Click the **Same** button, click **Specify if using CTI** checkbox if appropriate, enter the starting CAP key number in the **Start the assignment with CAP** field.

4. You will see function keys 1~8 given the values 0010 ~ 0017.

5. Click the **Apply** button to trigger the assignments.

   The result will be…

Ext 101	Ext 102		Ext 105
Key 1 = CAP 0010	Key 1 = CAP 0010		Key 1 = CAP 0010
Key 2 = CAP 0011	Key 2 = CAP 0011	…	Key 2 = CAP 0011
…	…		…
Key 8 = CAP 0017	Key 8 = CAP 0017		Key 8 = CAP 0017

4.2 Assigning Unique CAP Number to Each Key

In this mode, a *unique* CAP number is assigned to each selected function key across all the selected telephones.

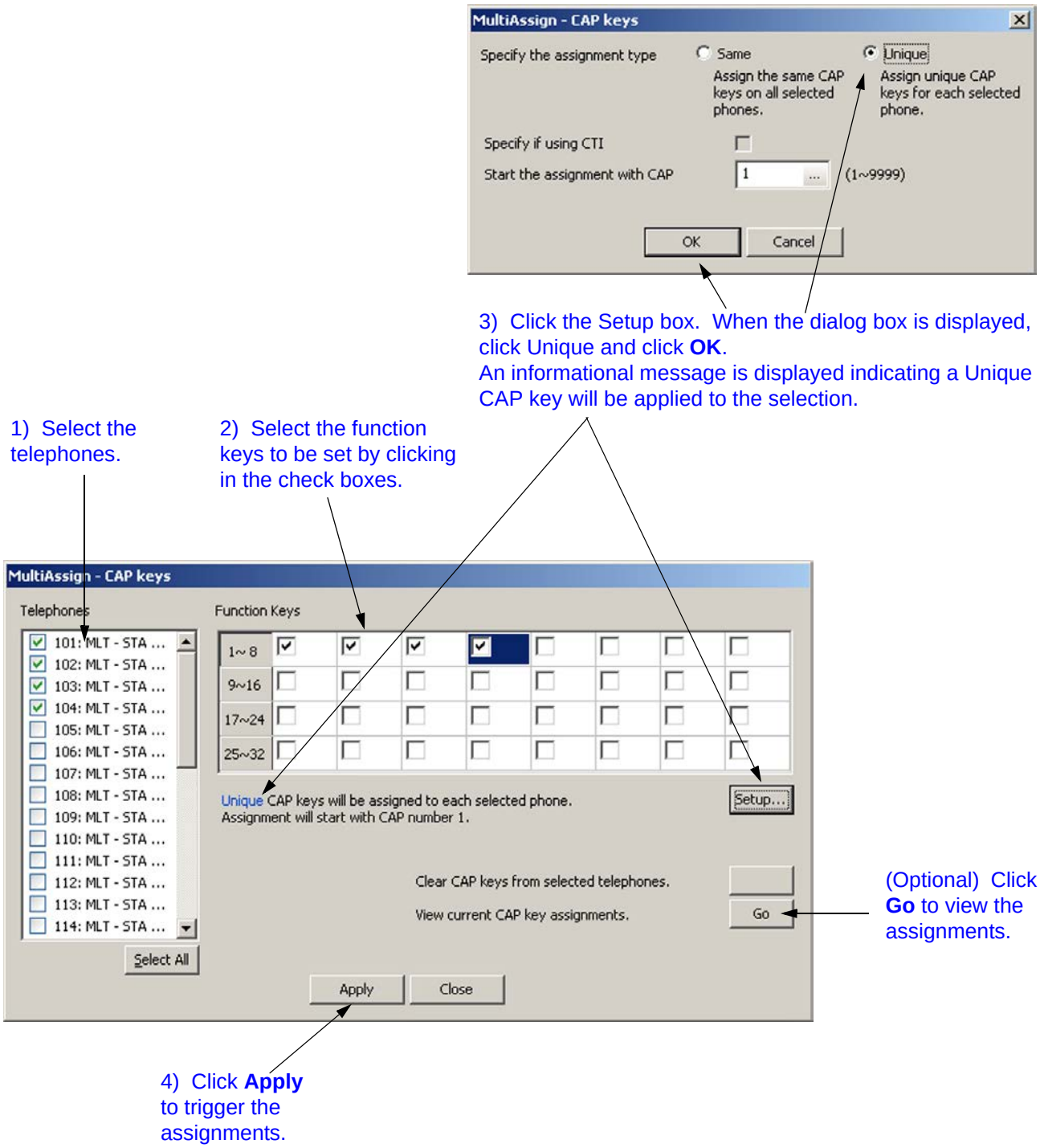


Figure A-4 MultiAssignmentCAP Keys (Same)

To assign a group of telephones:

*If you want to view previous assignments, press the **Go** button.*

1. Select the telephones from the **Telephones** list by clicking the check boxes.

2. Select the function keys that you want to assign to the selected telephones by clicking the checkbox.

3. Click the **Setup** box to display the assignment type dialog box. Click the **Unique** button and click **Specify if using CTI** checkbox if appropriate. Enter the starting CAP key number in the **Start the assignment with CAP** field.

4. Click **OK**. The main CAP key assignment dialog is returned with the assigned numbers displayed.

   If required, edit the actual value for each function key that is displayed in the Function key checkbox.

5. Click the **Apply** button to trigger the assignments.

Example

To setup extensions 101~105 to have unique CAP keys across function keys 1~8 follow the steps below:

This example assumes CAP numbers 0010 and onwards are not used and the CAP number 0010 is the first free call appearance number.

1. Select extensions 101~105 from the telephone list.

2. Click function keys 1~8 (i.e. click all items in the first row of function keys).

3. Click the **Setup** box to display the assignment type dialog box. Click the **Same** button, click **Specify if using CTI** checkbox if appropriate, enter the starting CAP key number in the **Start the assignment with CAP** field.

4. Enter 0010 in the **Start with CAP number** edit box. Or alternatively click the "**…**" button and select CAP 0010 from the selection box.

5. Click the **Apply** button to trigger the assignments.
   The result will be…

Ext 101	Ext 102		Ext 105
Key 1 = CAP 0010	Key 1 = CAP 0018		Key 1 = CAP 0026
Key 2 = CAP 0011	Key 2 = CAP 0019	…	Key 2 = CAP 0027
…	…		…
Key 8 = CAP 0017	Key 8 = CAP 0025		Key 8 = CAP 0033

SECTION 5 ASSIGNING DIRECT INWARD DIAL (DID) NUMBERS

DID allows you to assign multiple DID table entries.

The dialog is found under the menu item **Programming > MultiAssign > Direct Inward Dial (DID)**.

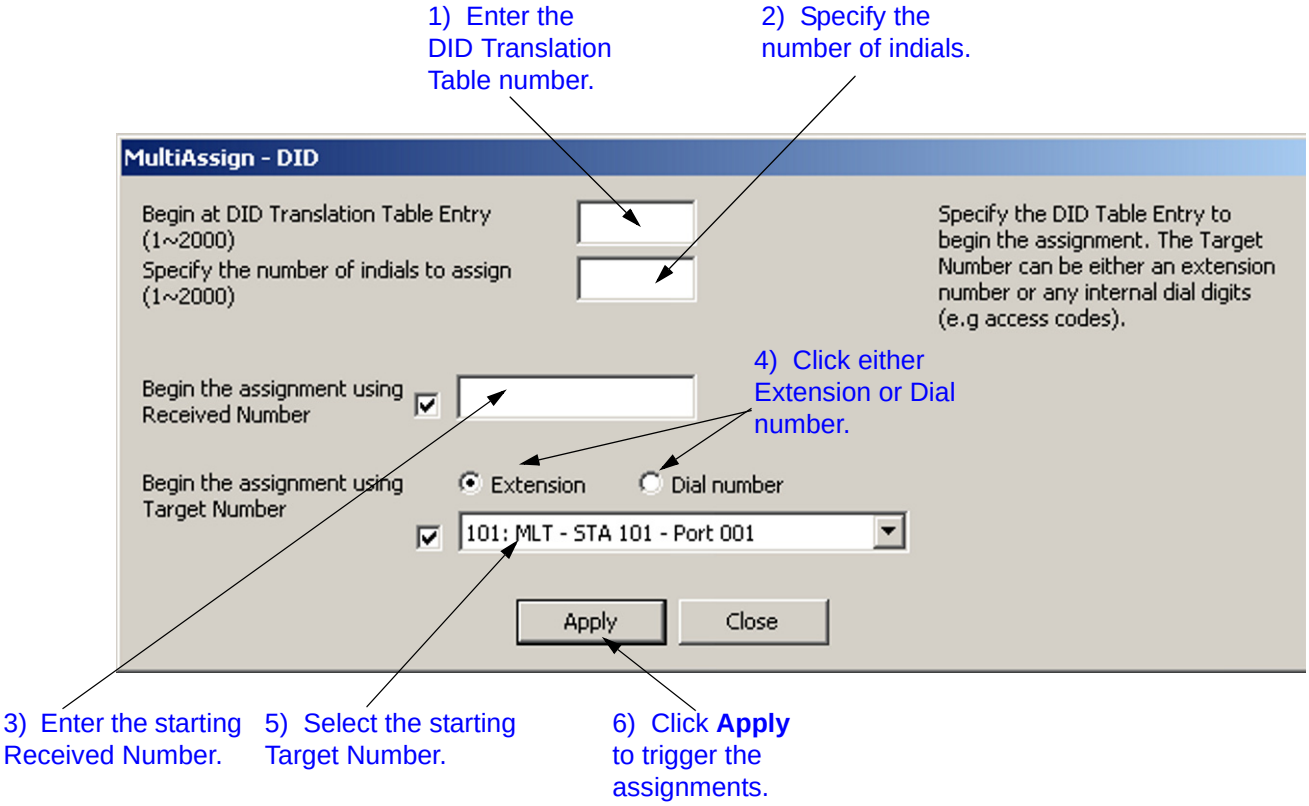


Figure A-5 MultiAssignDirect Inward Dialing (DID)

To assign DID entries:

1. Enter the DID Translation Table Entry number to begin the assignment.
2. Specify the number of indials.
3. Enter the starting Received Number.
4. Specify either **Extension** or **Dial number** by clicking the associated button.
5. Use the pulldown menu to select the appropriate Target Number.
6. Click the **Apply** button to trigger the assignments.

SECTION 6 ASSIGNING EXTENSION NUMBERS

The Extension Number multi-assignment dialog enables you to set a range of extension numbers to ports. This saves valuable time over having to enter each extension number individually. In addition, the dialog allows you to set blank extensions, thus providing a convenient way of freeing extension numbers for use by other ports.

The dialog is found under the menu item **Programming > MultiAssign > Extension Numbers**.

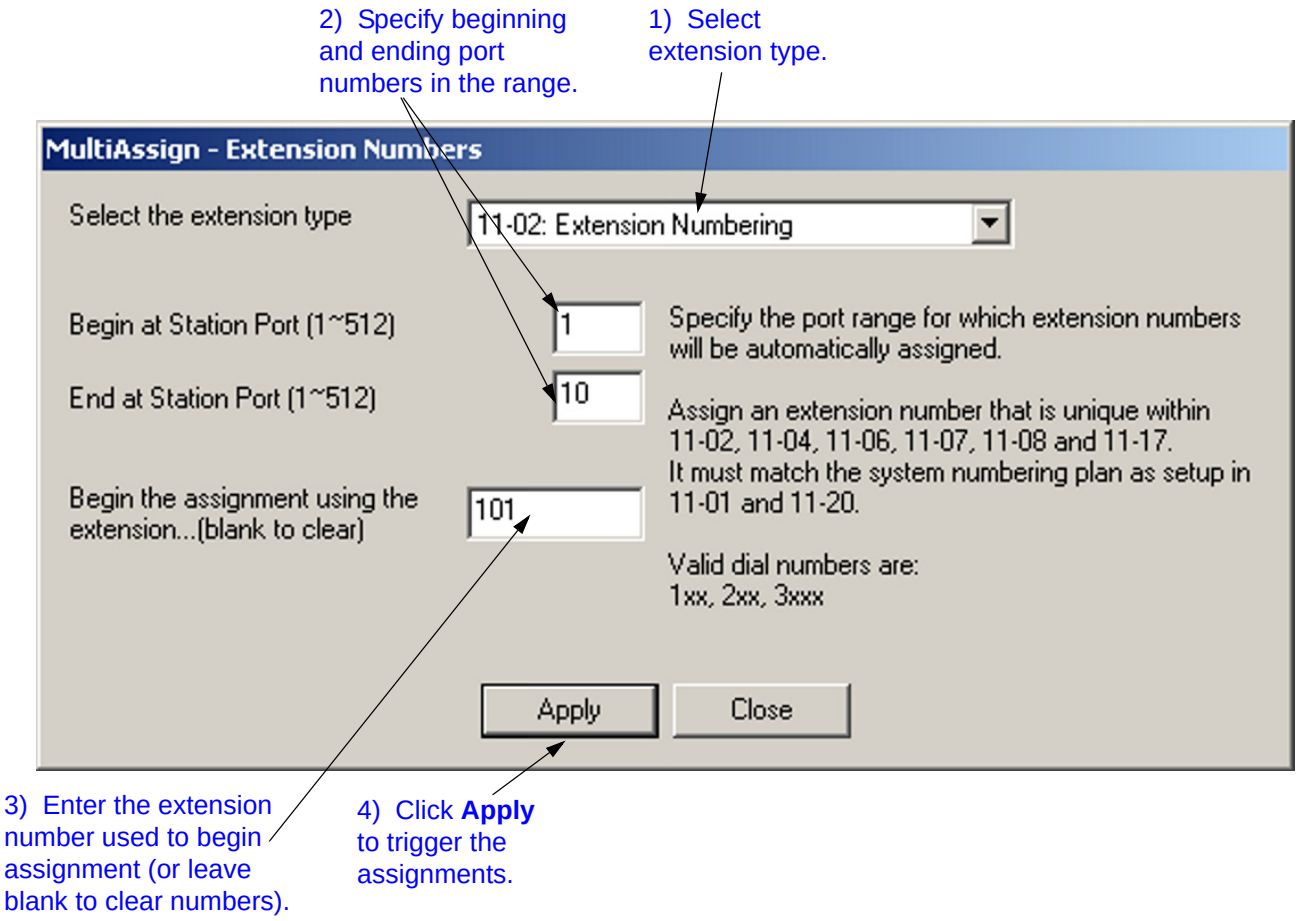


Figure A-6 MultiAssignmentExtension Numbers

To assign a group of ports with extension numbers:

1. Select the type of extensions you want to apply.
2. Specify the port range over which to iterate.
3. Specify the extension number to begin the assignment. (Leave this field blank to clear the extension numbers).
4. Click the **Apply** button to trigger the assignment.

Example

To assign telephone ports 001~099 with extension numbers 301~399:

1. To assign station numbers select *11-01: Extension Numbering* as our extension type.
2. Place a 1 in the *Begin at Station Port* edit box.
3. Place a 99 in the *End at Station Port* edit box.
4. Place 301 in the *Begin the assignment use the extension* edit box.
5. Click **Apply**.

The result will be…

Port 001 = Ext 301
Port 002 = 302
Port 003 = 303
…
Port 099 = 399

The extension numbers must validate against the numbering plan setup in PRG-11-01. *In addition, duplicate extension numbers cannot exist. In this case, free the extension numbers by assigning a blank to the ports using those extension numbers.*

SECTION 7 ASSIGNING FUNCTION KEYS

The Function Keys multi-assignment dialog enables you to setup a group of function keys for multiple telephones. The dialog is best used if you need to set up many telephones to have the *same* set of function keys.

The dialog is found under the menu item **Programming > MultiAssign > Function Keys**.

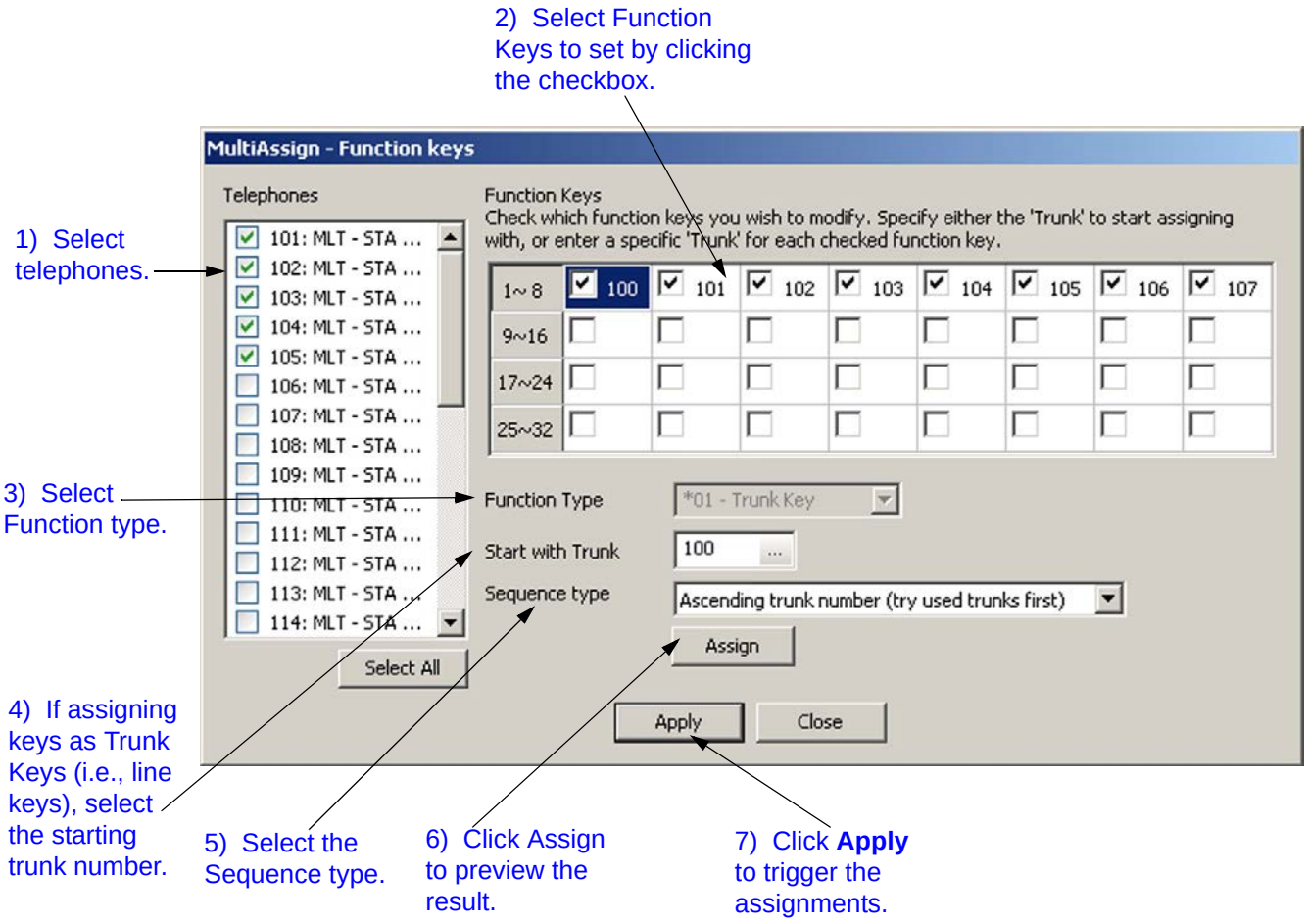


Figure A-7 MultiAssignmentFunction Keys

To assign Function Keys:

1. Select the telephones from the **Telephones** list by ticking the check boxes.
2. Select the function keys to set by clicking the checkbox.
3. Select the **Function Type**.
4. Specify the starting **Trunk Number**.
5. Select the **Sequence type**.
6. Click the **Assign** button. PCPro assigns selected function keys with trunk numbers, beginning with the trunk specified in step 4. The values have not been set to system data yet. *This is only a preview.*
7. Click the **Apply** button to trigger the assignment.

Example

To setup extensions 101 ~105 to have function keys 1~8 set as Trunk Keys 10~17 follow the steps below:

1. Select extensions **101**~**105** from the telephone list.
2. Tick function keys **1**~**8** (i.e., tick all items in the first row of function keys).
3. Set the function type to **Trunk Key**.
4. In the **Start with Trunk** edit box type 10. Alternatively, click the **"…"** button and select trunk 10 from the list.
5. Click the **Apply** button to trigger the assignment.
   The result will be…

Ext 101	Ext 102		Ext 105
Key 1 = Trunk 10	Key 1 = Trunk 10		Key 1 = Trunk 10
Key 2 = Trunk 11	Key 2 = Trunk 11	…	Key 2 = Trunk 11
…	…		…
Key 8 = Trunk 17	Key 8 = Trunk 17		Key 8 = Trunk 17

-- NOTES --

APPENDIX B Communications

SECTION 1 OVERVIEW

PCPro provides methods for the application to communicate with the chassis. PCPro can connect to the chassis to allow you to download/upload data, to perform a system initialization, to update firmware, to activate features and to backup a database to or restore a database from a flash key.

SECTION 2 CONNECT/DISCONNECT

Connect/Disconnect makes or breaks a connection session between PCPro and a chassis. This option changes its functionality depending on the connection status of PCPro. Figure B-1 Connect/Disconnect Status shows how the connection status is indicated on the toolbar.

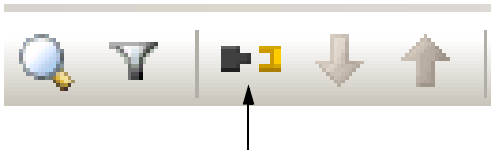


Figure B-1 Connect/Disconnect Status

	Disconnected	Signifies that PCPro is not connected to the chassis.
	Connected	Signifies that PCPro is currently connected to the chassis.

2.1 Accessing Connection Dialog

Connecting PCPro to a system is done within the Connect dialog. While PCPro is disconnected from a system, access the Connect dialog using one of the following three methods.

- ❑ Select the menu item **Communications > Connect/Disconnect**.

or…

- Select the icon depicting the disconnected black and yellow plugs .

or…

- Press **F5**.

2.2 Connecting PCPro to the System

Use the Connect dialog box to specify connection parameters to connect to the system.

3) (Optional) Load a defined Connection Account (can skip steps 1~3 by using this option.

1) Select Connection Type.

2) To login, specify the User Name and Password.

4) To make the connection to the system, click **Connect**.

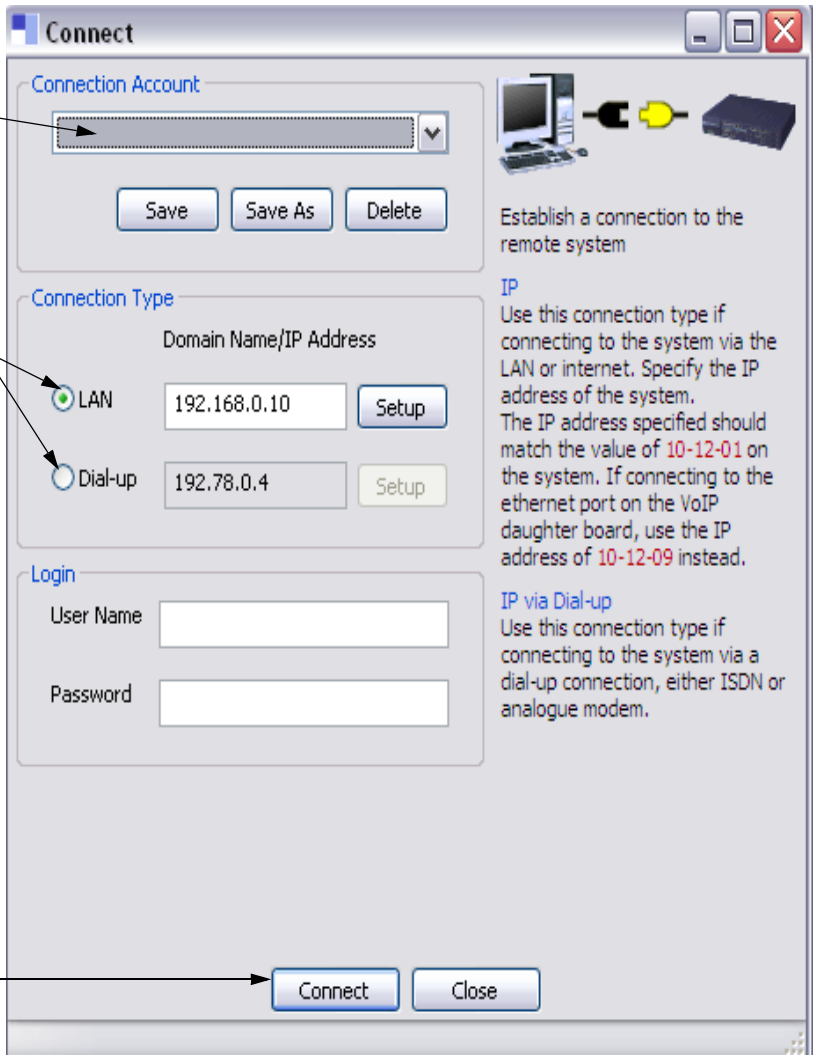


Figure B-2 Connect Dialog

3) (Optional) Load a defined Connection Account (can skip steps 1~3 by using this option.

1) Select Connection Type.

If connecting to an IPK II system, select either Direct or Modem Connection Type.

2) To login, specify the User Name and Password.

4) To make the connection to the system, click **Connect**.

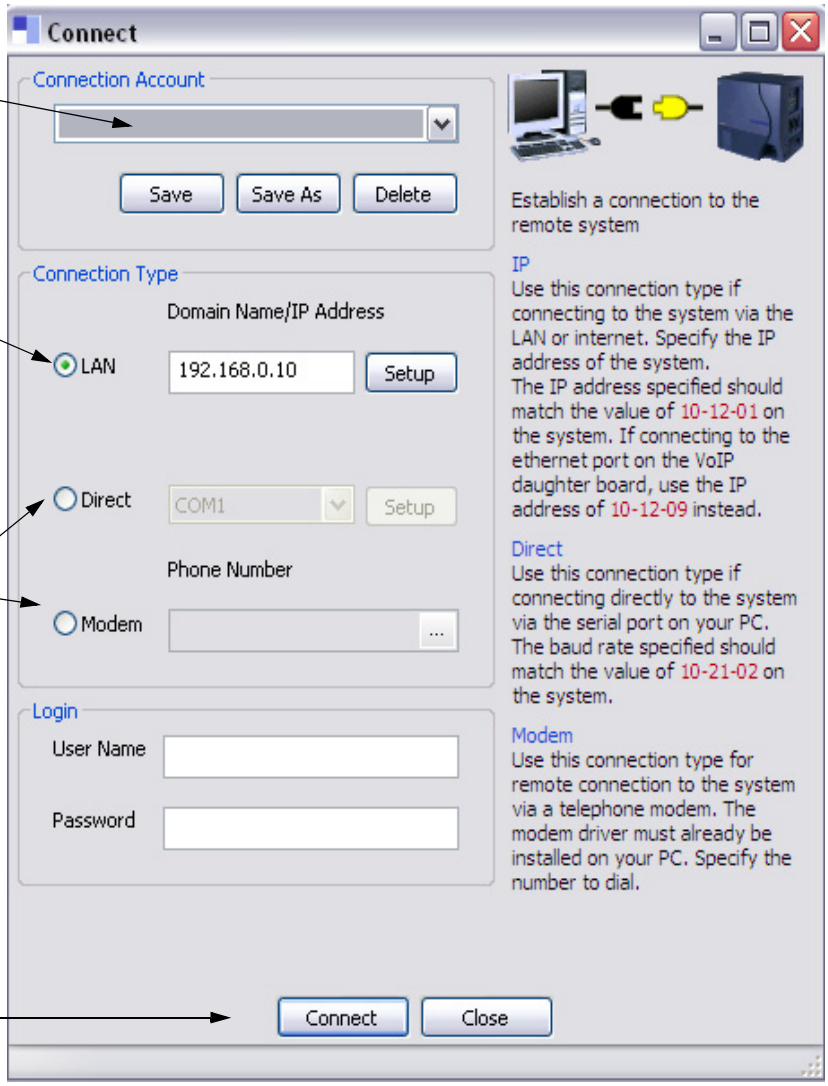


Figure B-3 IPKII Connect Dialog

To make a connection between PCPro and the system:

1. Select a **Connection Type** and specify the settings relevant to the selected type.

   If connecting to an SV8100 system, select either IP or IP via Dial-up.

   If connecting to an IPK II system, select either LAN, Direct or Modem.

2. Specify the **User Name** and **Password** used to allow the connection.

3. Alternatively, steps 1~2 can be skipped loading a defined connection account (refer to Appendix E - Connection Accounts).

4. Press the **Connect** button.

   After a successful connection, the connection settings that are used are set to the File Properties.

2.2.1 Connection Types

PCPro supports four types of connections to a system. Two connection types are for SV8100 and three apply only to IPK II.

Connection Types for SV8100:

- IP
  An *IP Connection* can be made via a LAN or the Internet. The IP address specified should match the system setting 10-12-01. If connecting to the ethernet port on the VoIP daughter board, use the IP address setting in 10-12-09.
- Dial-up
  An *IP Connection via Dial-up* can be made via a dial-up connection, either through ISDN or an analog modem.

  To install dial up connection, refer to paragraph 2.2.2 Create SV8100 Dial Up Connection on page B-5.

Connection Types for IPK II only:

- LAN
  An *IP Connection* can be made via the LAN. The IP address specified should match the system setting 10-12-01.
- Direct
  A *Direct Connection* can be made via an available serial port on a PC. Specify the PCs serial port and its transfer rate (bps). This speed must match the KSU baud rate setting assigned in 10-21-02.

- Modem
  A *Modem Connection* can be made from an existing modem connected to the PC. Specify the modem number to dial.

  To access the modem over K-CCIS, route the modem access service code to the target switch. Do not call a station that is call forwarded to the service code. When accessing the modem over K-CCIS, enter the service code to be dialed in PCPro.

  Note that PCPro follows the PCs dialing properties. If dialing a service code, you must turn off the dial 9 for outside line and area code inclusion or PCPro will dial these digits as well.

2.2.2 Create SV8100 Dial Up Connection

When connecting an SV8100 via modem, a Dial Up Connection (PPP) must be created. The following steps describe how to set up the Dial Up Connection (PPP).

1. Click **Start >Settings>Network Connections**.
2. Select **Create a New Connection**.

Figure B-4 New Connection Wizard Dialog

3. Click **Next**.
4. Select **Connect to the network at my workplace**, then click **Next**.

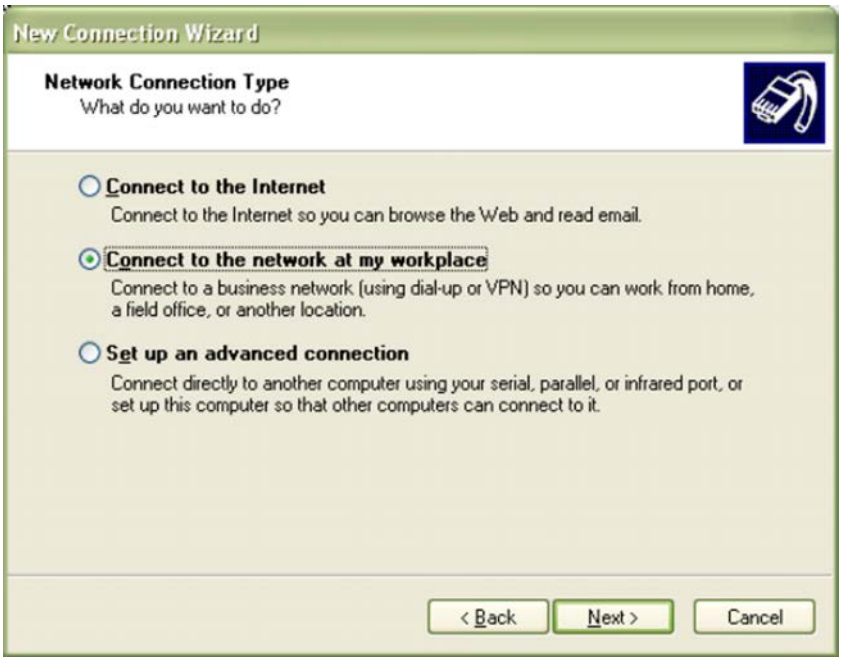


Figure B-5 Network Connection Type Dialog

5. Select **Dial-up connection**, then click **Next**.

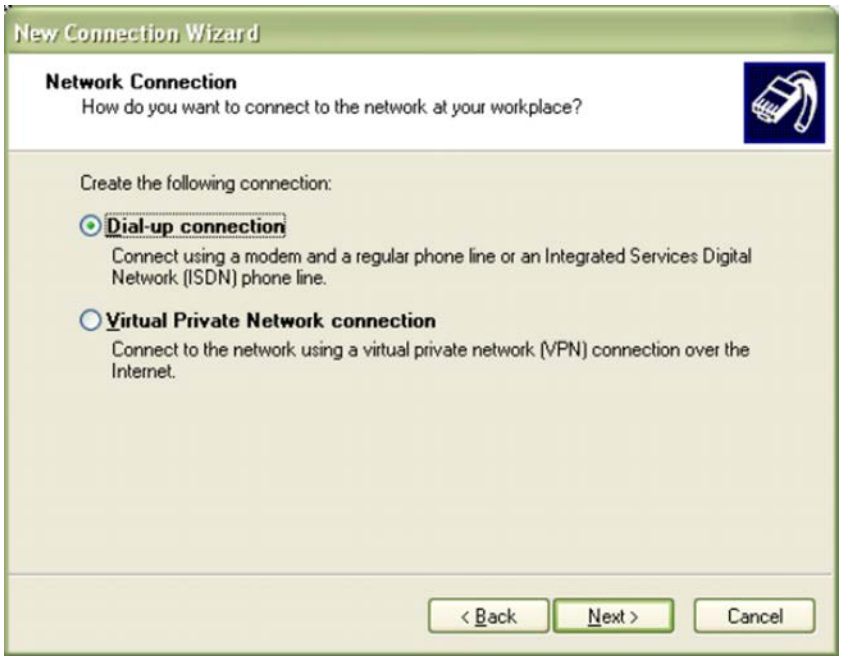


Figure B-6 Network Connection Dialog

6. Enter a name to be used for the dial-up connection.

Figure B-7 Connection Name Dialog

7. Enter the telephone number to be dialed, then click **Next**.

Ensure the SV8100 programs 11-15-14, 22-02 and 22-07 are setup to receive calls to the modem.

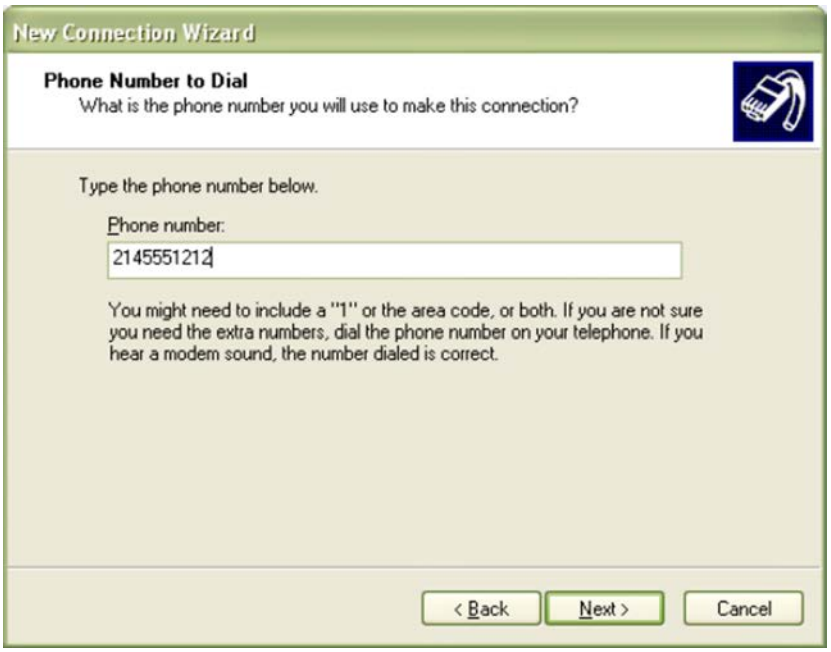


Figure B-8 Phone Number to Dial Dialog

8. Setup the availability of the connection, then click **Next**.

Figure B-9 Connection Availability Dialog

9. Click **Finish**.

Figure B-10 Completing the New Connection Dialog

10. In the Connection window click **Properties** and select the **Security** tab.

Figure B-11 Connect SV8100 Dial Up Connection

11. Select **Typical** and click **OK**. Setup for the Dial Up Connection (PPP) is complete.

Figure B-12 SV8100 Dial Up Connection Properties

2.2.3 Login

Specify the User Name and Password that will allow the connection. The account must exist within the chassis settings 90-02. Like PCPro Accounts, Login Accounts govern what system data can be accessed from the chassis.

It is important to note, Login Accounts are not the same as PCPro Accounts. Thus both chassis Login and PCPro Account settings are NOT synchronized and are independent of each other.

Once connected, the PCPro access level changes to match the level assigned to the user name/password used to connect. This access level is set in 90-02 on the chassis. For example, if you start PCPro in Installer (IN) mode, but connect to a chassis using an account with an access level of System Administrator Level 1 (SA), after connecting PCPro assumes the access level of SA. Once you are disconnected, PCPro reverts back to the access level IN.

2.3 Disconnecting PCPro from the System

While PCPro is connected to a system, you can disconnect using one of the following methods:

1. Select the menu item **Communications > Connect/Disconnect.**

   or…

2. Select the icon depicting the connected black and yellow plugs  .

   or…

3. Press **F5**.

All communication methods, excluding 'Connect/Disconnect', are disabled and the 'Connect/Disconnect' toolbar icon changes status to disconnected.

SECTION 3 DOWNLOAD

Downloading pulls all the data off the system and loads it into PCPro. A download can only occur when PCPro is connected to a system.

3.1 Accessing Download

When PCPro is connected to a system, access the Download dialog using one of the following methods.

- Select the menu item **Communications > Download**.

  or…

- Select the icon depicting the blue arrow  .

  or…

- Press **F6**.

3.2 Downloading Data from the System to PCPro

Use the Download dialog to specify the parameters and perform a download.

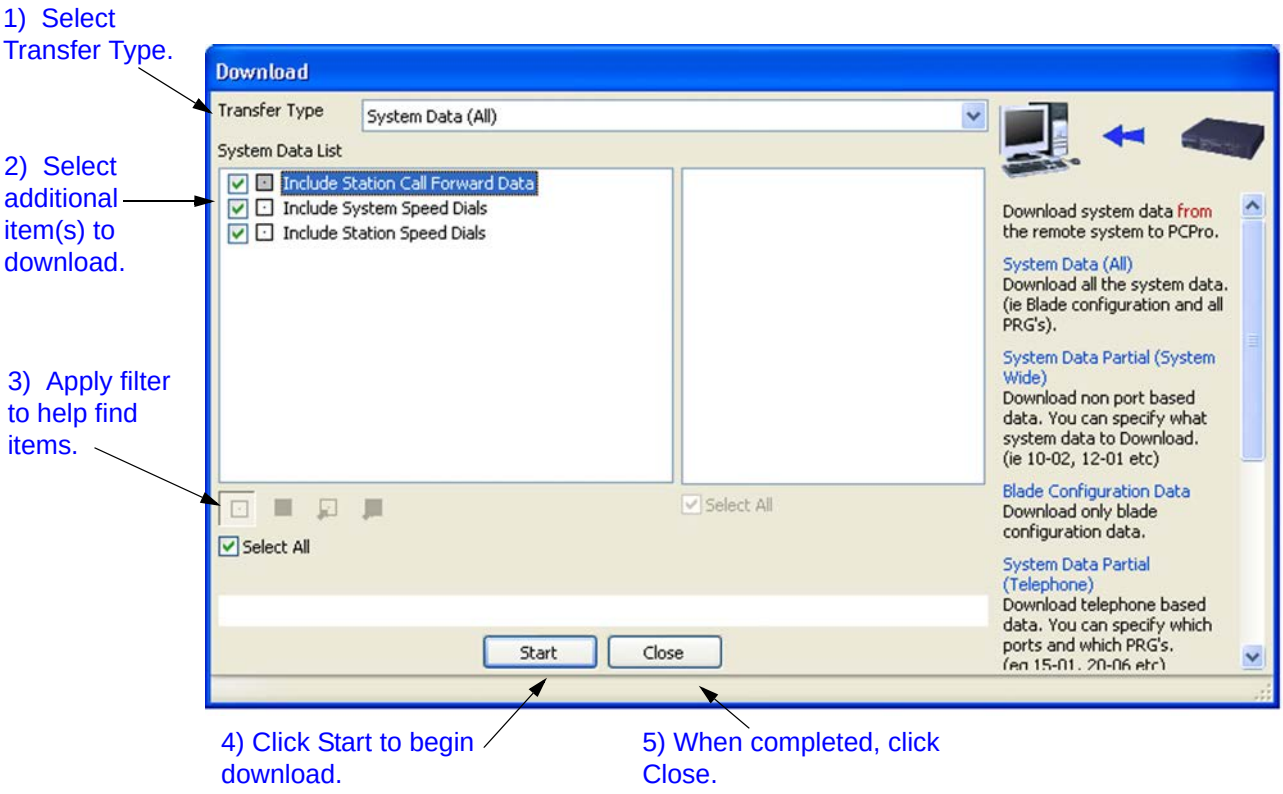


Figure B-13 Download Dialog

To download data from system memory to PCPro:

1. Select a **Transfer Type**.
2. Select **Transfer Type** items.
3. If desired, select items via the Modify Filter.
4. Press the **Start** button.
5. After the download is completed, press the **Close** button.

3.2.1 Transfer Type

Select a filter that controls the scope of settings to download. The following Transfer Types are made available.

- All: No filter, all chassis settings.
- Blade Configuration: Blade package settings.
- System Data Partial (System Wide): System-based settings.
- System Data Partial (Telephone): Telephone-based settings.
- System Data Partial (Virtual Extension): Virtual Extension-based settings.
- System Data Partial (Trunk): Trunk-based settings.
- User Data: User-specific settings.

Transfer Type Items

Specifically select PRG Groups and/or individual PRGs from the chassis settings to download. The choice of Transfer Type Items available is governed by the Transfer Type selected.

Modify Filters

A filter is applied based on the system data modification status. The filter only applies to system data on the PCPro side, not system data residing in chassis memory. Refer to Appendix D - Modification History for further information.

SECTION 4 UPLOAD

Uploading pushes all the data from PCPro to system memory. An upload can only occur when PCPro is connected to a system.

4.1 Accessing Upload

When PCPro is connected to a system, access the Upload dialog using one of the following methods:

- Select the menu item **Communications > Upload**.

  or…

- Select the icon depicting the red arrow  .

  or…

- Press **F7**.

4.2 Uploading Data from PCPro to System Memory

Use the Upload dialog to specify the parameters and perform an upload.

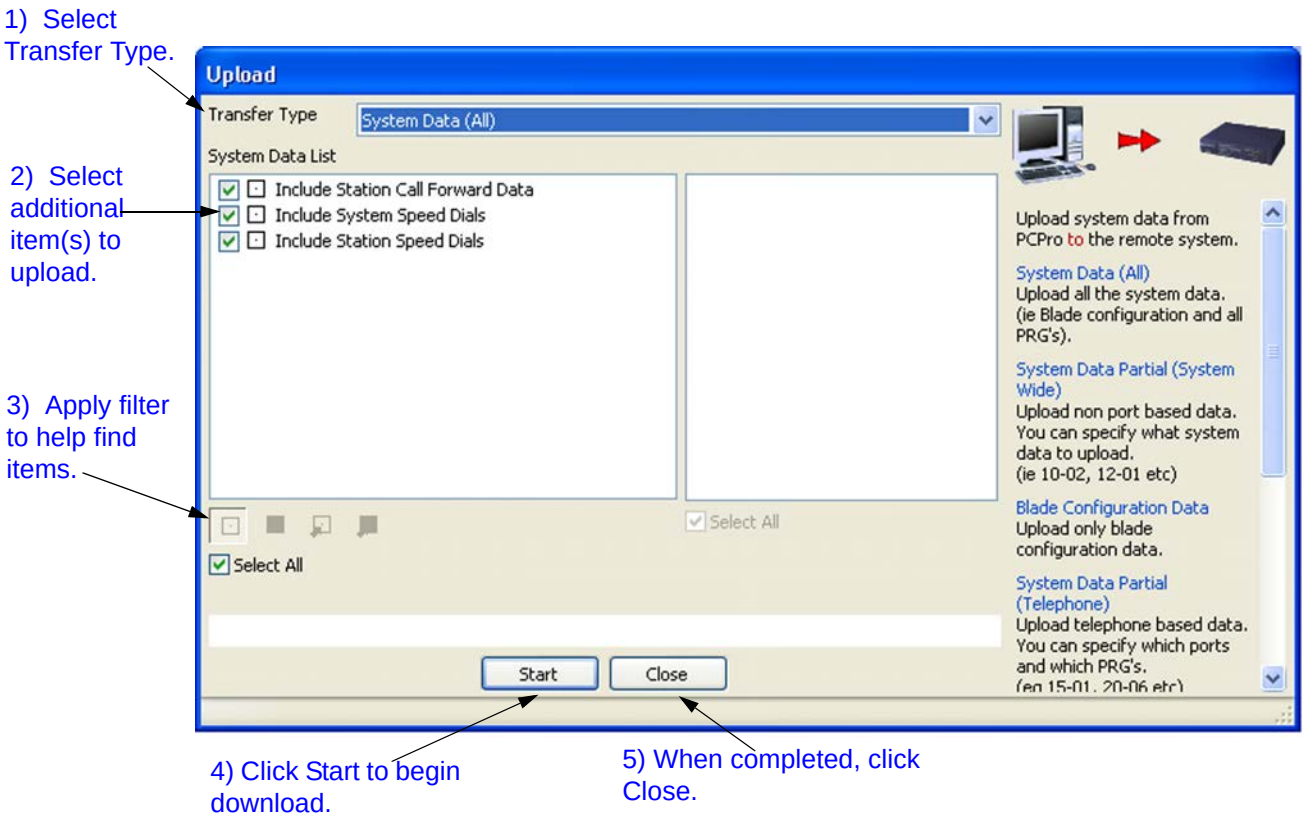


Figure B-14 Upload Dialog

To upload data from PCPro to system memory:

1. Select a **Transfer Type**.
2. Select **Transfer Type** items.
3. If desired, select items via the Modify Filter.
4. Press the **Start** button.
5. After the upload is completed, press the **Close** button.

4.2.1 Transfer Type

Select a filter that controls the scope of chassis settings to upload. The following Transfer Types are made available.

- All: No filter, all Chassis settings.
- Blade Configuration: Blade packages settings.
- System Data Partial (System Wide): System-based settings.
- System Data Partial (Telephone): Telephone-based settings.
- System Data Partial (Virtual Extension): Virtual Extension-based settings.
- System Data Partial (Trunk): Trunk-based settings.
- User Data: User-specific settings.

Transfer Type Items
Specifically select PRG Groups and/or individual PRGs from the chassis settings to upload. The choice of Transfer Type Items available is governed by the Transfer Type selected.

Modify Filters
A filter is applied based on the system data modification status. The filter only applies to system data on the PCPro side, not system data residing in chassis memory. Refer to Appendix D - Modification History for further information.

4.3 Uploading Blade Configuration

When uploading the Blade Configuration via **Upload All,** and selecting Card Configuration, or just **Uploading Card Configuration**, a warning popup will display when either Trunks or stations are busy at the time of selecting to uploading the Card Configuration. This will allow for the upload to be cancelled and completed at a later time, or to be continued and will disconnect the busy trunks and/or stations.

This popup is shown when the Card Configuration is selected to be uploaded and the trunks are busy.

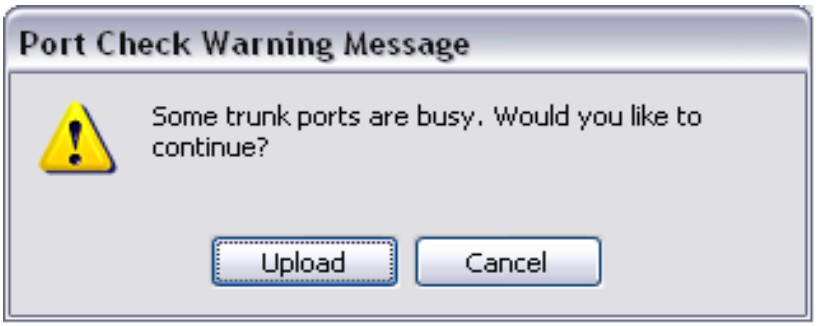


Figure B-15 Trunk Ports Busy Warning

This is popup is shown when the Card Configuration is selected to be uploaded and stations are busy.

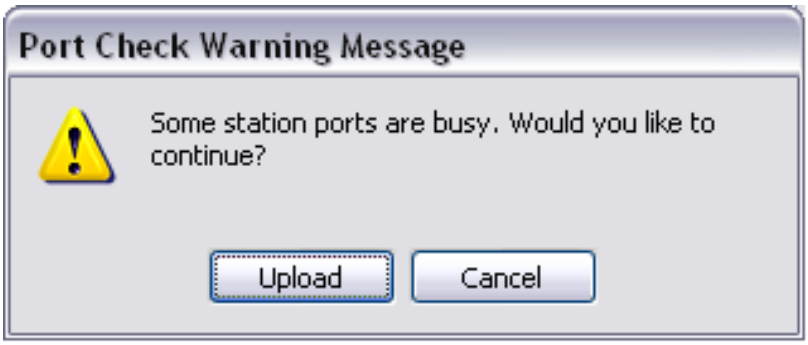


Figure B-16 Station Ports Busy Warning

SECTION 5 FEATURE ACTIVATION

Some system features are licensed and require registration before they can be used. Features can be activated by registering the feature automatically via the Internet or manually by downloading the associated Software Code. Feature Activation can only occur when PCPro is connected to a system.

5.1 Accessing Feature Activation

When PCPro is connected to a chassis, access the Feature Activation dialog by selecting the menu item **Communications > Feature Activation**.

5.2 Activating a Feature

Refer to Appendix G - Feature Activation for a detailed discussion.

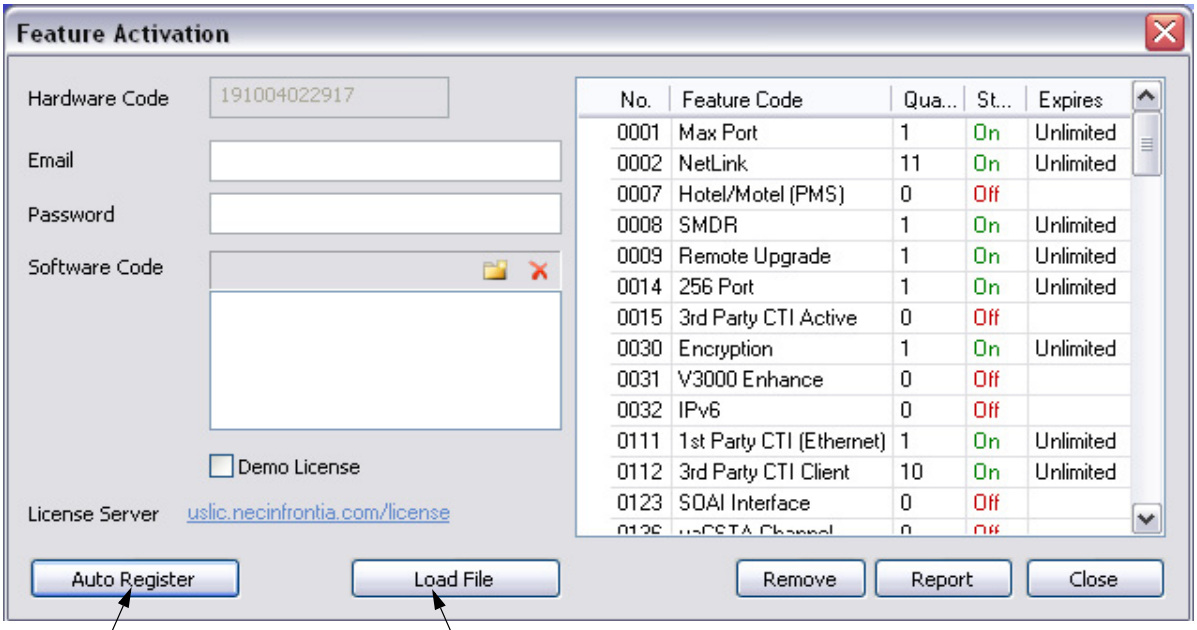


Figure B-17 Feature Activation Dialog

SECTION 6 FIRMWARE UPDATE

Firmware Update automatically updates the main software in a system remotely at a scheduled time. This feature saves times and effort in comparison to performing the task manually. A Firmware Update can only occur when PCPro is connected to a chassis.

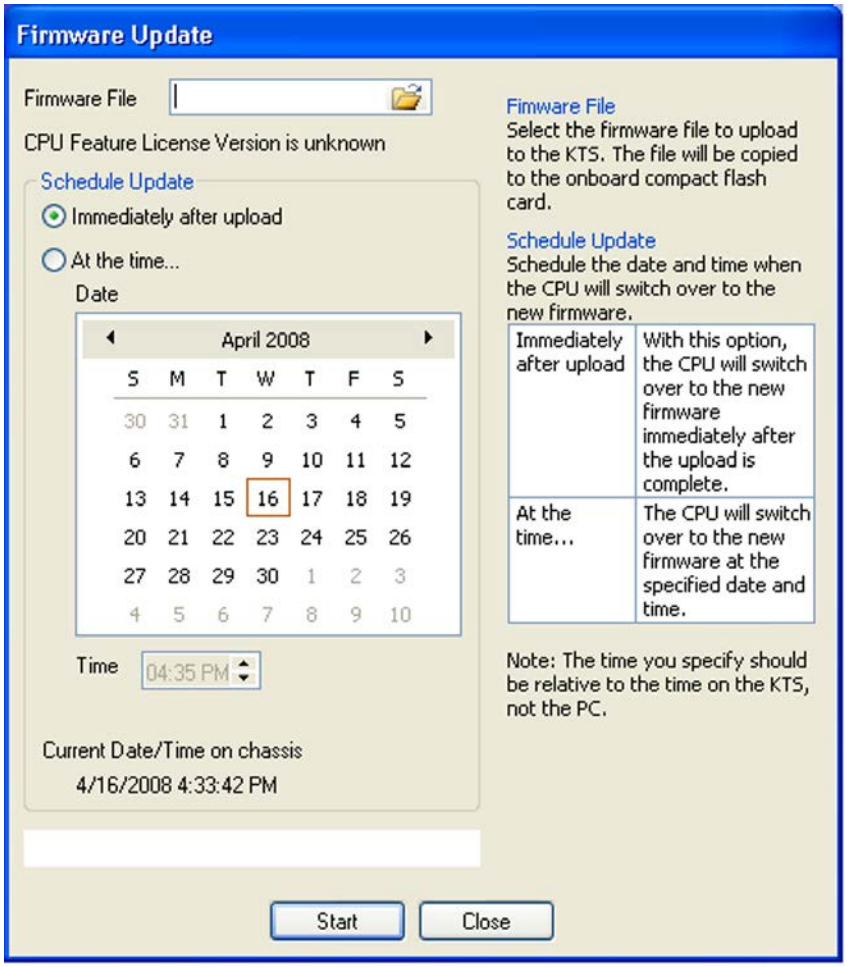


Figure B-18 Firmware Update Dialog

The time to upload the firmware package file is directly related to the file size. At present, the package file is about 10MB, so over LAN it may take several minutes.

A backup of system data should be performed before any firmware update.

Before Firmware Update can be used the system must meet the following requirements:

1. Feature Activation
   The Firmware Update feature must be registered through Feature Activation. Refer to Section 5 Feature Activation on page B-16 for details.
2. Hardware
   The hardware prerequisite for Firmware Update is the USB drive. The USB drive is used to store the Firmware Update file before the operation is executed.

6.1 Accessing Firmware Update

When PCPro is connected to a chassis, access the Firmware Update dialog by selecting the menu item **Communications > Firmware Update**.

6.2 Using Firmware Update

Use the Firmware dialog to specify the parameters and perform a Firmware Update.

To perform a firmware update:

1. Select a **Firmware File**.

   Firmware Package File:
   Select a Firmware package file provided by NEC. Updating a chassis with a faulty Firmware page file could render the system unusable.

2. Schedule when the Firmware Update is to occur using the parameters in the **Schedule Update** section.

   Schedule:
   Schedule when the Firmware update will occur. The changes of the Firmware Update will only occur after the chassis is reset. Thus the Firmware Update should be executed at a suitable time when the chassis is not actively in use.

   ✎ *The time you specify should be relative to the time on the chassis, not the local time of the PC.*

3. Press the **Start** button.

6.3 Firmware Update via Web Pro

With Version 9000 or higher software WebPro supports Remote System Upgrade. Available features or procedures are the same as PCPro Remote Upgrade.

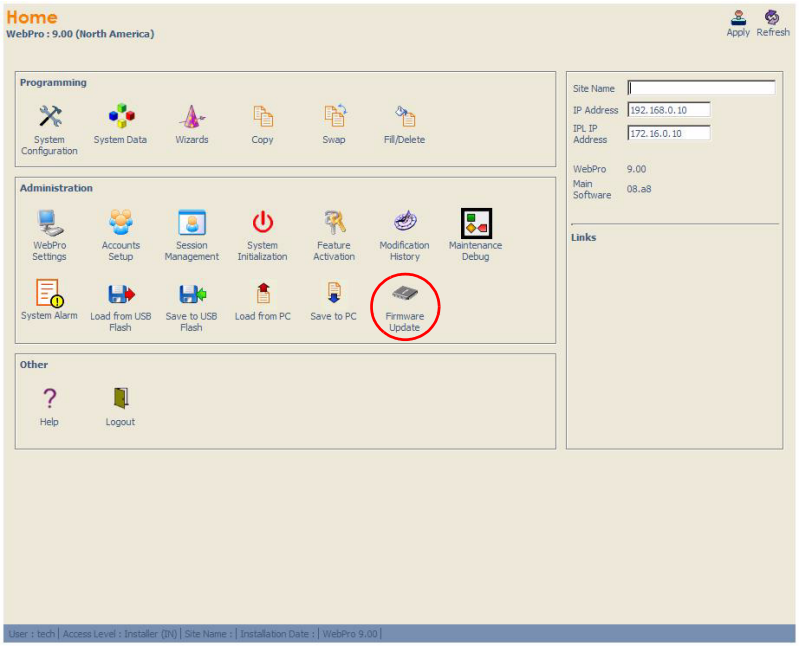


Figure B-19 Firmware Update Icon

1. Click the ‘Firmware Update’ icon and the following pop up screen is displayed.

Figure B-20 Firmware Update Screen

2. In the Firmware Update screen, select a location of the Firmware Package file. For example, the file name might be SV8100_v9.0RemoteUpgrade.mem, SV8100_v9.0RemoteUpgrade.mdu or SV8100_v9.0RemoteUpgrade.usb.

3. Select the schedule type:
   - Immediately after upload
   - At the time...

   If you choose ‘At the time...’ select the date and time you want the CD-CP00-US to reset and switch over to the new software version.

4. Click the ‘Start Update’ button. WebPro uploads the firmware package file, and updates the system at the time you specified in step 3.

SECTION 7 CONDITIONS

With Version 9000 or higher software, WebPro supports Remote System Upgrade. WebPro upgrade requires,

- Firmware package file from NEC

- User level (PRG90-02-03) has to be 2 = IN (Installer Level) or higher.

Caution: Don’t click the **Home** or **Back** button on the browser, or close the WebPro browser, during uploading the Firmware, otherwise Upload will stop

SECTION 8 SYSTEM INITIALIZATION

A System Initialization resets a system. During an initialization all telephone calls are dropped and all connections to WebPro, PCPro and the handset are lost. Therefore, it is important that initialization should be executed at a suitable time when the system is not actively in use. PCPro can only execute an initialization when it is connected to a system.

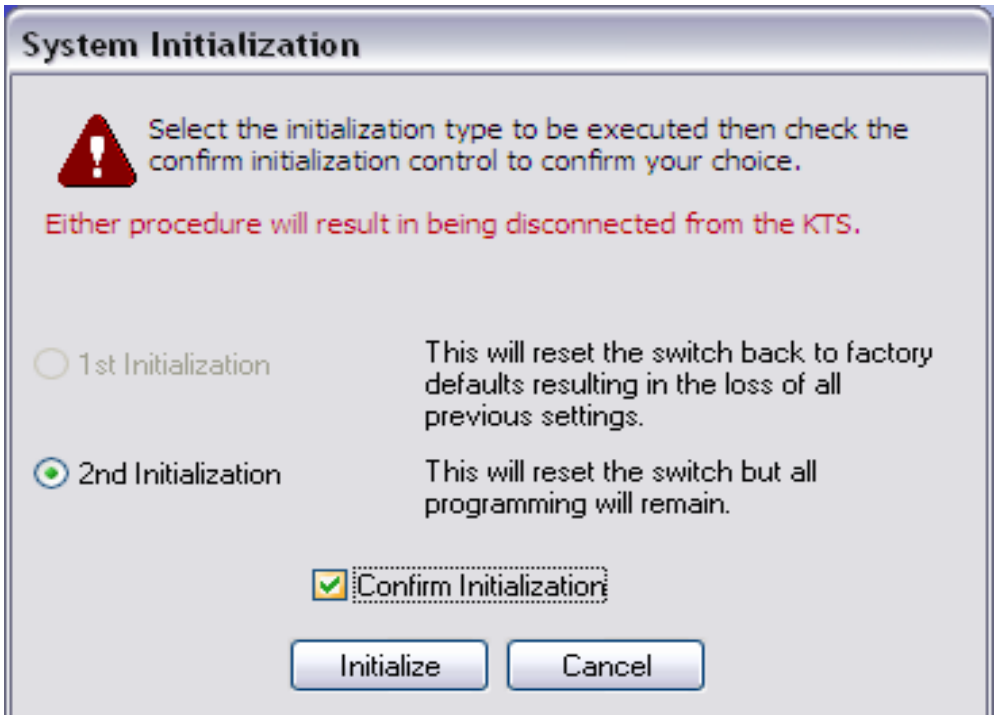


Figure B-21 System Initialization Dialog

8.1 Accessing System Initialization

When PCPro is connected to a system, access the System Initialization dialog by selecting the menu item **Communications > System Initialization.**

8.2 System Initialization Types

Within the System Initialization Dialog, there are two types of initialization.

1st Initialization
A 1st Initialization resets the chassis and loads all system data with factory default values. As a result, all previously modified values are lost (only available when connected to an IPK II system).

2nd Initialization

A 2nd Initialization resets the chassis and retains all previously modified values within system data.

-- NOTES --

APPENDIX C Copy

SECTION 1 OVERVIEW

The system data copy function allows you to copy data from one item to another (e.g., one trunk to another). This copy only applies to a single program. Copy only appears on screens where it is applicable.

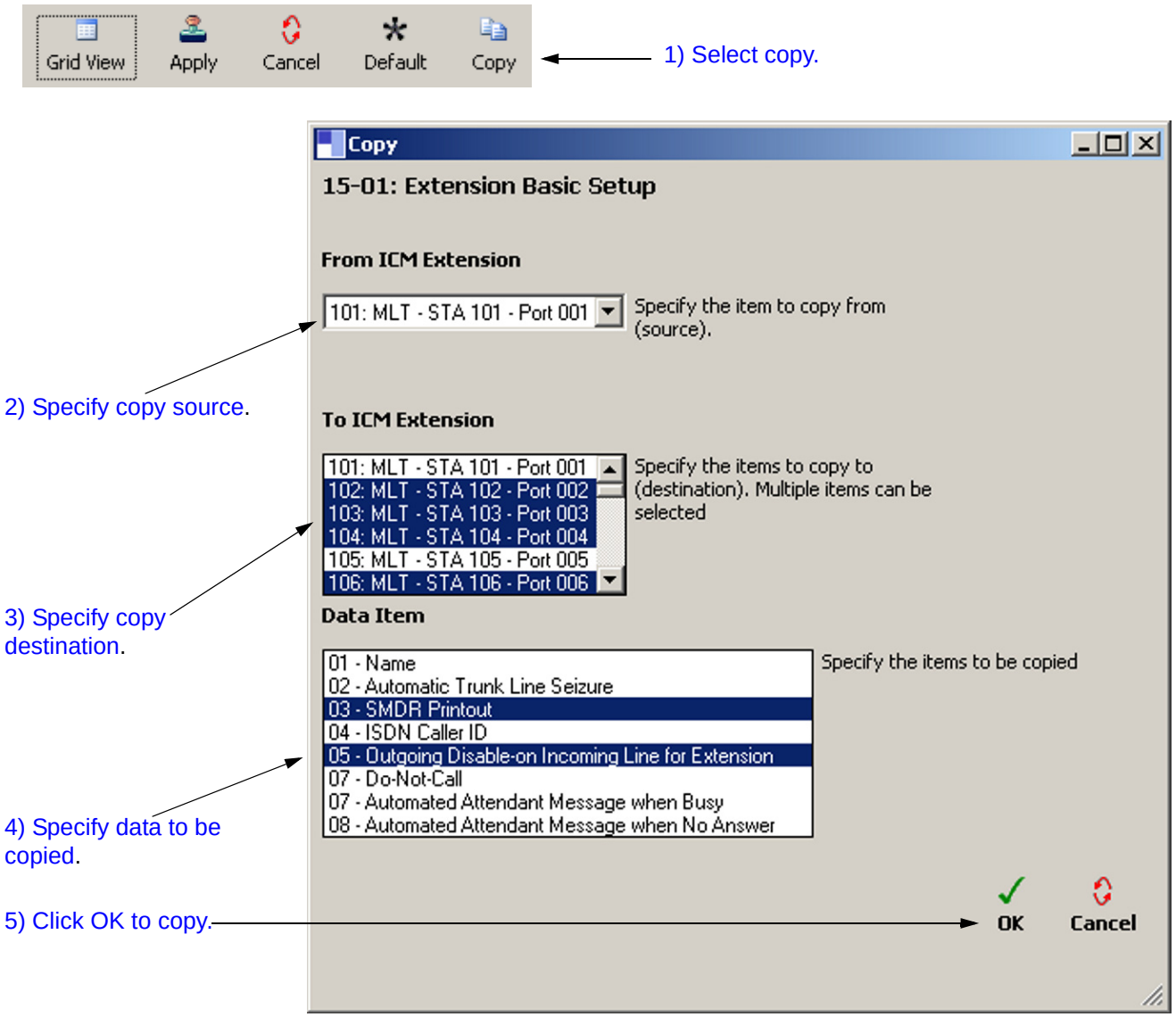


Figure C-1 System Data Copy

SECTION 2 COPYING SYSTEM DATA

To copy a system data item:

1. Press the **Copy** button  .
2. When the **Copy** dialog box is displayed, specify the source to copy from.

   The source (**From**) shows the item being copied from. Only a single source item can be selected.
3. Specify elements of the source that you want to copy.

   These settings are specific to the system data being copied.
4. Specify the destination where you want to the elements copied.

   The destination (**To**) details the item(s) where the selected source information is copied to. Multiple destination items can be selected.
5. Press **OK** to copy the selected items.

APPENDIX D *Modification History*

SECTION 1 OVERVIEW

PCPro keeps a record of all the modifications made to a database file. This record is known as the Modification History. PCPro also provides you with the ability to view this history list. Following is the list of database operations that PCPro records in the modification history.

<table>
<tr><th>Operation</th><th>Details</th></tr>
<tr><td>System Data Set</td><td>This includes programming performed through:
❍ Standard View Screens
❍ Wizards
❍ System Data Programming
❍ Copy
For each set, an entry is made to the history list. The entry records the following items:

<table>
<tr><th>Field</th><th>Data</th></tr>
<tr><td>Date</td><td>Date and time of operation.</td></tr>
<tr><td>User Name</td><td>The User Name that performed the operation.</td></tr>
<tr><td>Display Name</td><td>The Display Name that performed the operation.</td></tr>
<tr><td>Access Level</td><td>The Access Level that performed the operation.</td></tr>
<tr><td>Type</td><td>Identifies the operation type. Set to “Set Date”.</td></tr>
<tr><td>Modification</td><td>The system data ID.</td></tr>
<tr><td>Details</td><td>The item changed.
Old value.
New value.</td></tr>
</table>
</td></tr>
</table>

The modification history is only saved in the local database when you perform **File Save** or **File Save As**. The modification history is a running list of the changes. PCPro keeps appending to the list. If you open a file, make changes, save and close the file and in the future open the same file and make additional changes, then the new modification history is appended to the old.

The modification state of a PCPro database is indicated via the modification icon on the Status Bar. The different filters are:

	The database is not modified. All data has been saved to file and uploaded.
	System data has been modified and has not been saved to file.
	System data has been saved to file but has not been uploaded.
	System data has been modified and has not been saved to file nor uploaded.

SECTION 2 ACCESSING MODIFICATION HISTORY

To access Modification History, complete one of the following:

- ❑ Select the menu item **Tools > Reports > Modification History.**

  or…

- ❑ Select the clock icon on the toolbar  .

SECTION 3 GENERATING A MODIFICATION HISTORY REPORT

A Modification History Report can be viewed in either HTML format or Comma Separated Variable (CSV) format. Sample formats are shown in Figure D-2 Sample Modification History HTML Format on page D-3 and Figure D-3 Sample Modification History CSV Format on page D-4.

To request a report:

1. Access the report by selecting Modification History from the toolbar or by clicking the clock icon (refer to Section 2 Accessing Modification History).
2. When the **Export Modification History** dialog box is displayed, click either the **HTML** or **CSV** option and press **OK**.

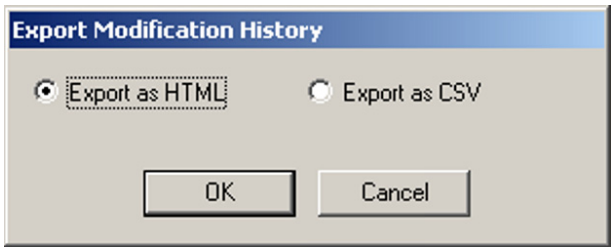


Figure D-1 Export Modification History Dialog Box

3. The report is generated in the format you selected. (Refer to Figure D-2 Sample Modification History HTML Format and Figure D-3 Sample Modification History CSV Format on page D-4).

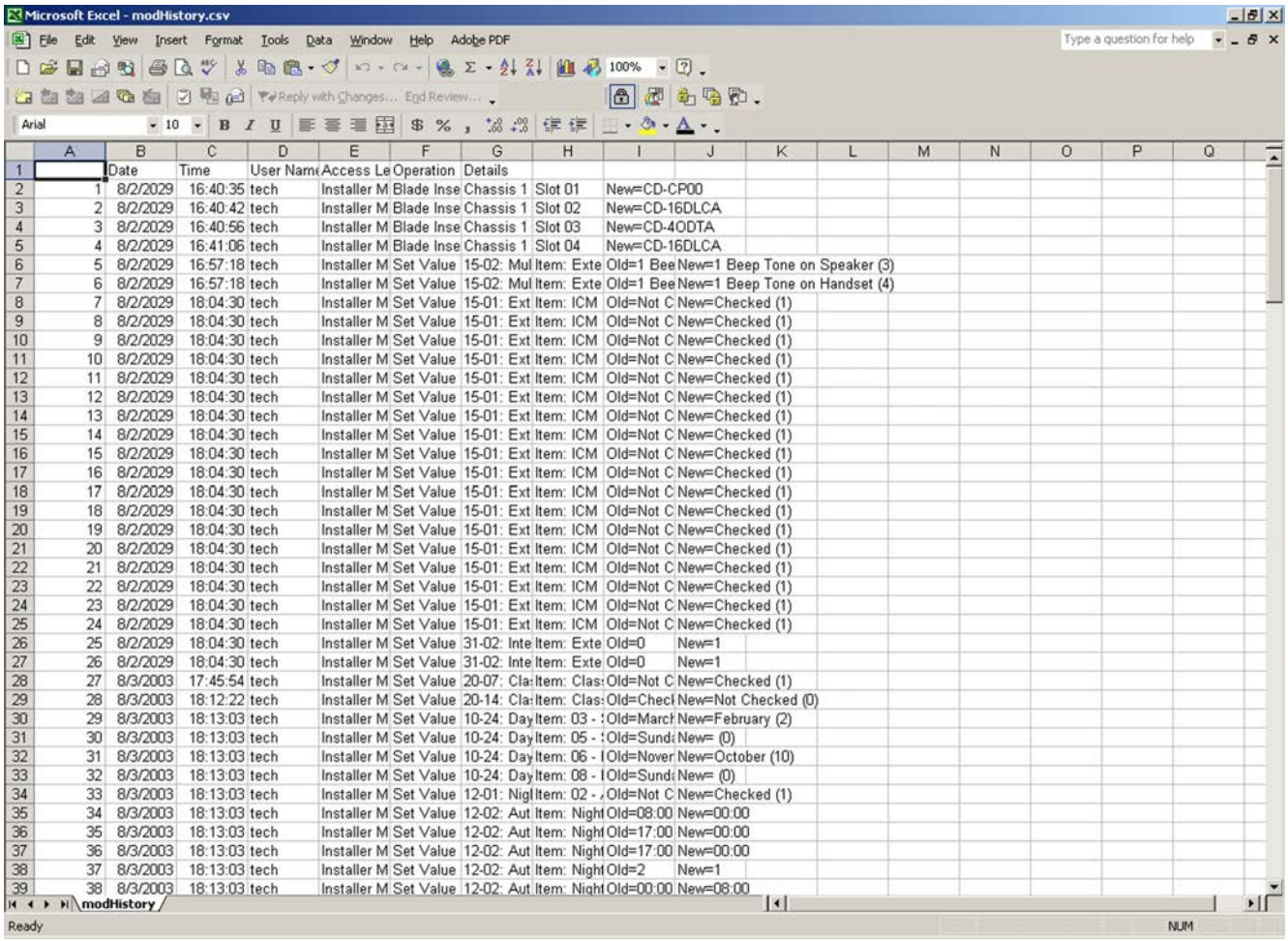
Modification History - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\Program Files\SV8100 Application Suite\SV8100 PCPro\Reports\modHistory.htm

	Date	Time	User Name	Access Level	Operation	Details
1	08/02/29	16:40:35	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 01, New=CD-CP00
2	08/02/29	16:40:42	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 02, New=CD-16DLCA
3	08/02/29	16:40:56	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 03, New=CD-4ODTA
4	08/02/29	16:41:06	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 04, New=CD-16DLCA
5	08/02/29	16:57:18	tech	Installer Mode (IN)	Set Value	PRG 15-02: Multi-Line Telephone Basic Setup Item Extension 128, 12 - Off-hook Signaling Type Value Old=1 Beep Tone in Speaker and Handset (5), New=1 Beep Tone on Speaker (3)
6	08/02/29	16:57:18	tech	Installer Mode (IN)	Set Value	PRG 15-02: Multi-Line Telephone Basic Setup Item Extension 132, 12 - Off-hook Signaling Type Value Old=1 Beep Tone in Speaker and Handset (5), New=1 Beep Tone on Handset (4)
7	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 101, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
8	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 102, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
9	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 103, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
10	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 104, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
11	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 105, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)

Figure D-2 Sample Modification History HTML Format



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1		Date	Time	User Nam	Access Le	Operation	Details										
2	1	8/2/2029	16:40:35	tech	Installer M	Blade Inse	Chassis 1	Slot 01	New=CD-CP00								
3	2	8/2/2029	16:40:42	tech	Installer M	Blade Inse	Chassis 1	Slot 02	New=CD-16DLCA								
4	3	8/2/2029	16:40:56	tech	Installer M	Blade Inse	Chassis 1	Slot 03	New=CD-4ODTA								
5	4	8/2/2029	16:41:06	tech	Installer M	Blade Inse	Chassis 1	Slot 04	New=CD-16DLCA								
6	5	8/2/2029	16:57:18	tech	Installer M	Set Value	15-02: Mul	Item: Exte	Old=1 Bee	New=1 Beep Tone on Speaker (3)							
7	6	8/2/2029	16:57:18	tech	Installer M	Set Value	15-02: Mul	Item: Exte	Old=1 Bee	New=1 Beep Tone on Handset (4)							
8	7	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
9	8	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
10	9	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
11	10	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
12	11	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
13	12	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
14	13	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
15	14	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
16	15	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
17	16	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
18	17	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
19	18	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
20	19	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
21	20	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
22	21	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
23	22	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
24	23	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
25	24	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
26	25	8/2/2029	18:04:30	tech	Installer M	Set Value	31-02: Inte	Item: Exte	Old=0	New=1							
27	26	8/2/2029	18:04:30	tech	Installer M	Set Value	31-02: Inte	Item: Exte	Old=0	New=1							
28	27	8/3/2003	17:45:54	tech	Installer M	Set Value	20-07: Cla	Item: Clas	Old=Not C	New=Checked (1)							
29	28	8/3/2003	18:12:22	tech	Installer M	Set Value	20-14: Cla	Item: Clas	Old=Checl	New=Not Checked (0)							
30	29	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 03 -	Old=March	New=February (2)							
31	30	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 05 -	Old=Sund	New= (0)							
32	31	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 06 -	Old=Nover	New=October (10)							
33	32	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 08 -	Old=Sund	New= (0)							
34	33	8/3/2003	18:13:03	tech	Installer M	Set Value	12-01: Nig	Item: 02 -	Old=Not C	New=Checked (1)							
35	34	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=08:00	New=00:00							
36	35	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=17:00	New=00:00							
37	36	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=17:00	New=00:00							
38	37	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=2	New=1							
39	38	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=00:00	New=08:00							

Figure D-3 Sample Modification History CSV Format

APPENDIX E *Connection Accounts*

SECTION 1 OVERVIEW

Connection Accounts provide a convenient way of loading user defined connection settings. These are application wide settings. Connection Accounts can be created in two ways:

- ❑ Via the Connect dialog
- ❑ Via the Connection Accounts dialog

SECTION 2 CREATING/DELETING A CONNECTION ACCOUNT USING THE CONNECT DIALOG

This section describes how to use the Connect dialog to create a new Connection Account or delete an existing Connection Account. (Refer to Figure E-1 Connect DialogCreating/Deleting Connection Account on page E-2.)

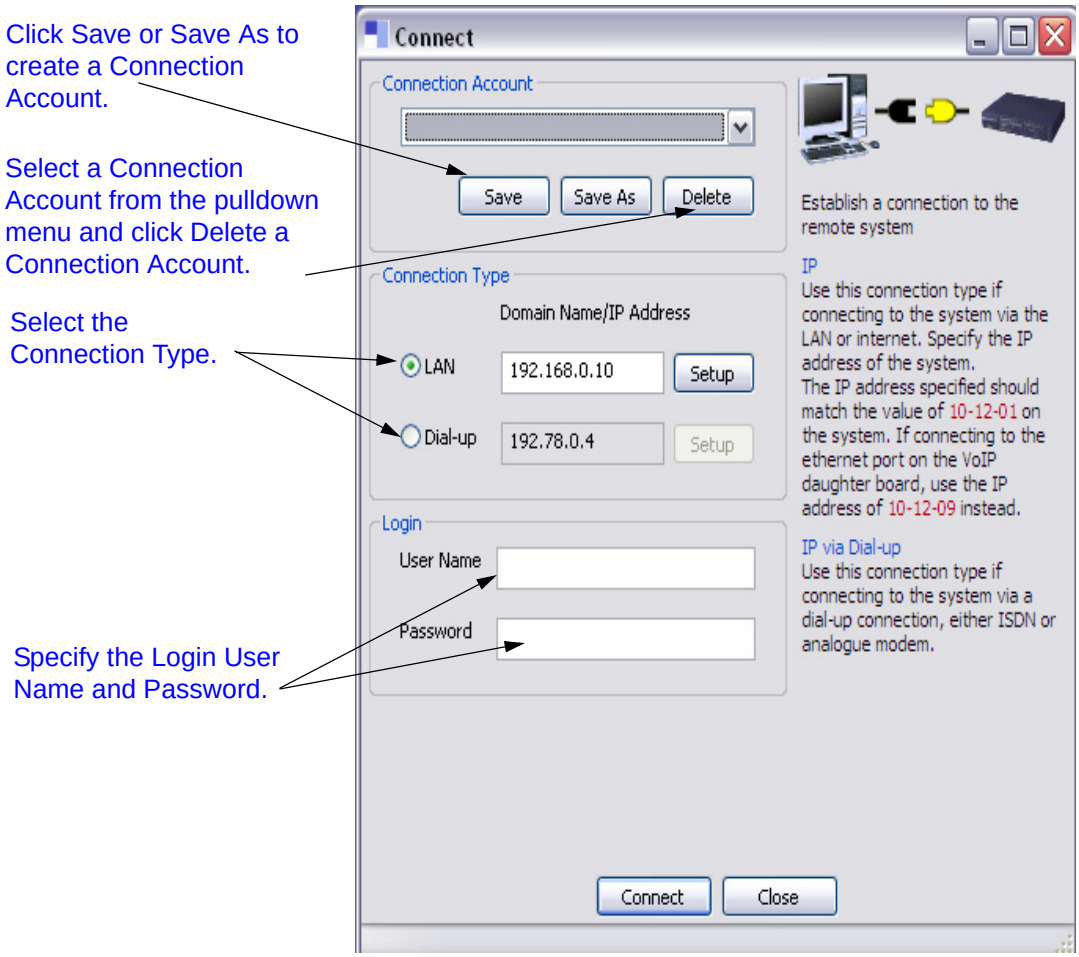


Figure E-1 Connect DialogCreating/Deleting Connection Account

2.1 Creating a New Account

To create an account using Connect dialog:

1. Select a **Connection Type** and specify settings relevant to the Connection Type.
2. Specify the **Login User Name** and **Password** used to allow the connection.
3. Press the **Save** or **Save As** button located in the Connection Account section of the dialog.
4. When the Save As dialog is displayed, enter a description of the connection (refer to Figure E-2 Save As Connection Account Dialog on page E-3.)

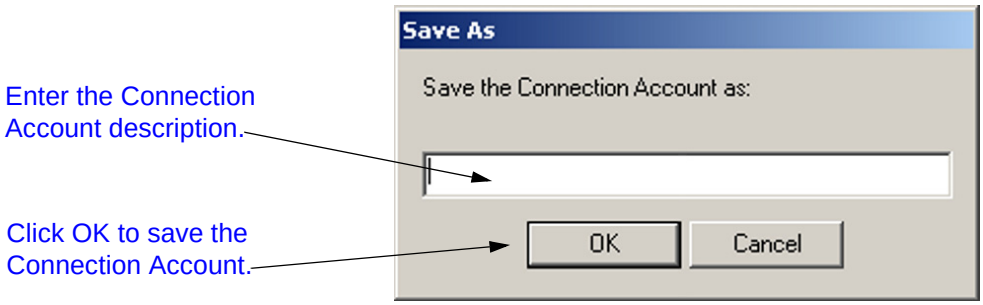


Figure E-2 Save As Connection Account Dialog

5. Press **OK** to save the Connection Account.

2.2 Deleting an Account

An existing Connection Account can be deleted.

To delete an existing account:

1. Select the **Connection Account** from the pulldown menu on the Connect dialog. (Refer to Figure E-1 Connect DialogCreating/Deleting Connection Account on page E-2.)

2. Click the **Delete** button.

SECTION 3 CREATING/MODIFYING/DELETING A CONNECTION ACCOUNT USING THE CONNECTION ACCOUNTS DIALOG

This section describes how to create, modify or delete a Connection Account using the Connection Accounts dialog.

To access the Connection Accounts dialog, select **Tools > Connection Accounts** on the toolbar.

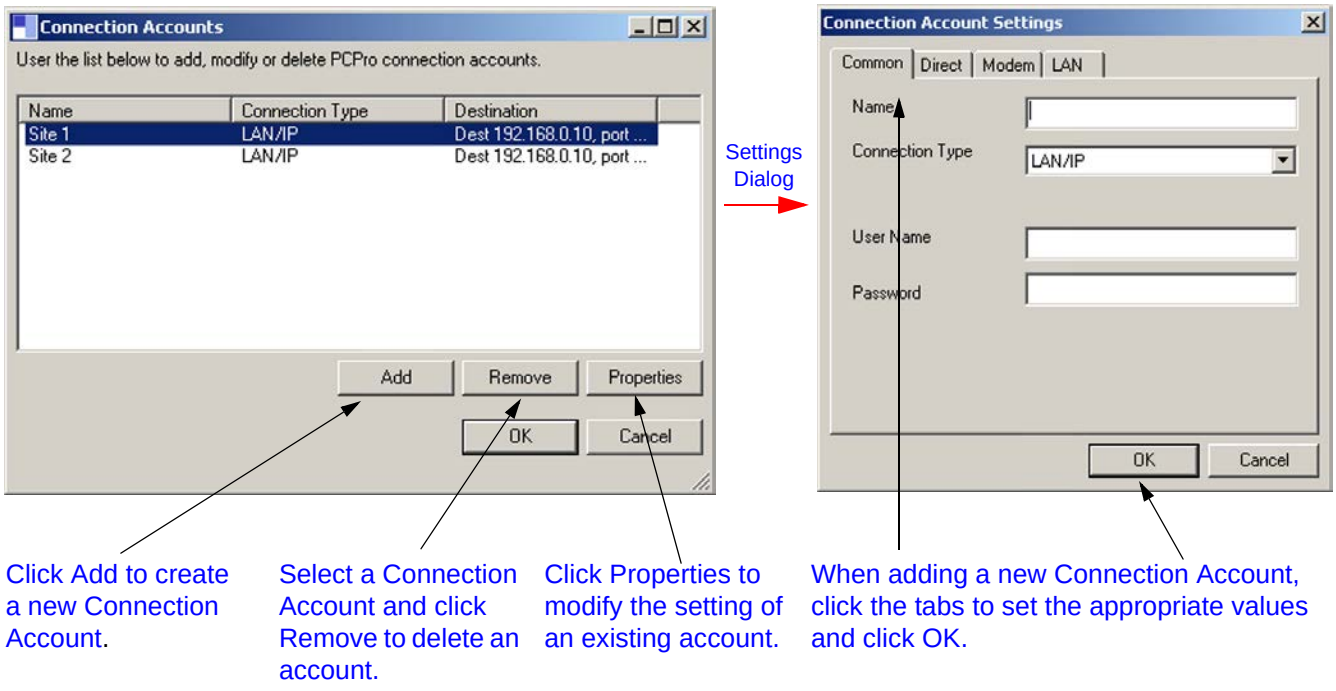


Figure E-3 Connection Account DialogCreating/Modifying/Deleting Connection Account

3.1 Creating a New Account

To create a new Connection Account:

1. Click the **Add** button.
2. When the Connection Account Settings dialog is displayed, enter the account properties.
3. Click **OK** to save the Connection Account.

3.2 Modifying an Existing Account

To modify an existing Connection Account:

1. Select the Connection Account on the Connection Accounts dialog.
2. Click the **Properties** button.
3. When the Connection Account Settings dialog is displayed, change the settings of the selected account.
4. Click **OK** to save the changes to the account.

3.3 Deleting and Existing Account

To delete an existing Connection Account:

1. Select the Connection Account on the Connection Accounts dialog.
2. Click **Remove** to delete the selected account.

-- NOTES --

APPENDIX F Debug Terminal

SECTION 1 OVERVIEW

PCPro provides a debug terminal that can be used to capture trace logs from the CD-CP00-US in the chassis. The debug terminal communicates with the chassis via the LAN. A TCP connection on port 5963 is established between the debug terminal and the chassis.

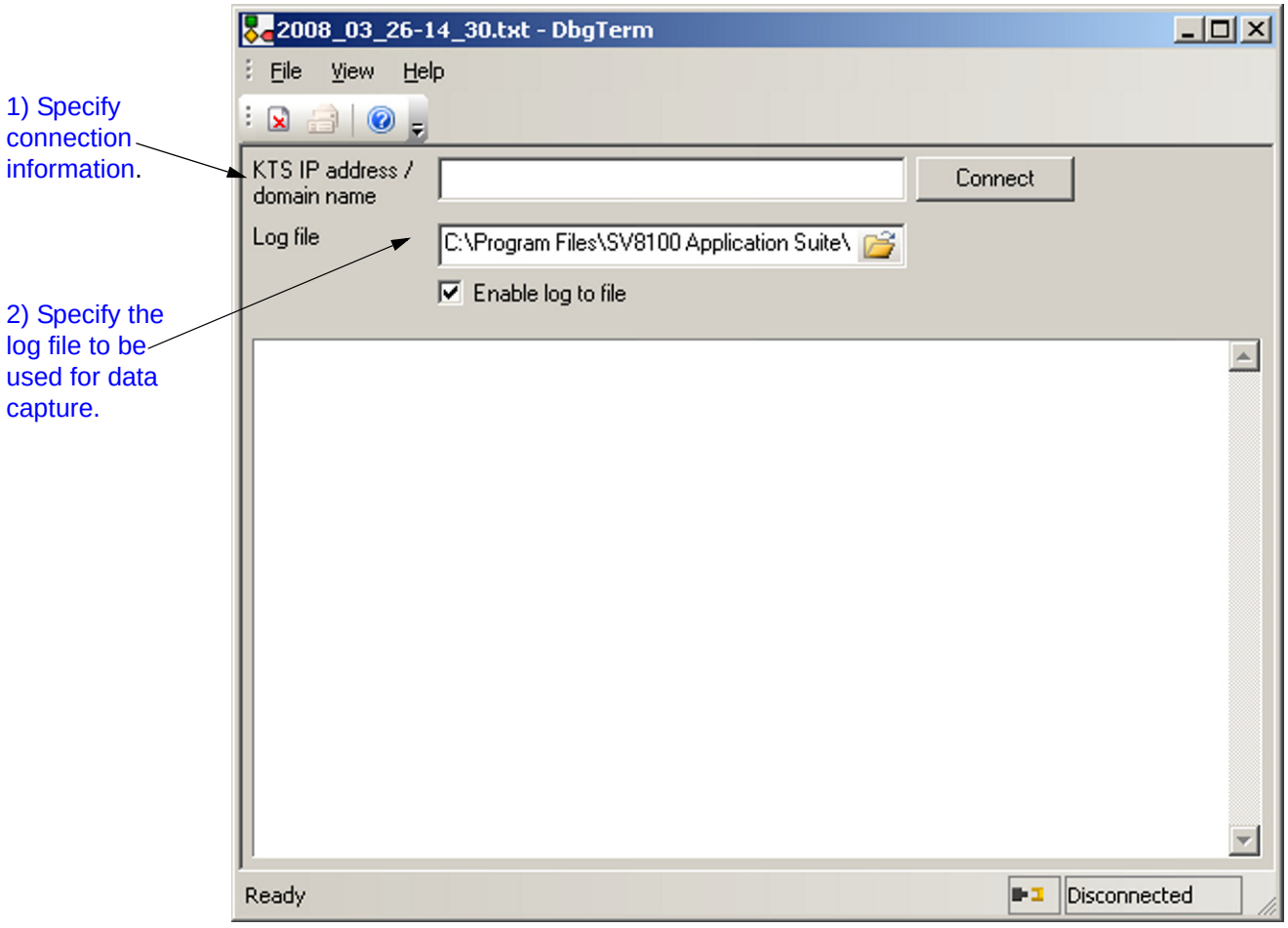


Figure F-1 Debug Terminal Dialogs

SECTION 2 LAUNCHING THE DEBUG TERMINAL

You can launch the debug terminal in one of two ways:

- ❑ Select the menu item **Links > DbgTerm**.

  or…

- ❑ Click on the DbgTerm icon on the toolbar  .

If PCPro is connected via LAN to a chassis, then the debug terminal automatically tries to connect to the same IP address (domain name). Once the debug terminal is running, incoming debug messages from the chassis appear on the screen. You can capture the incoming data to a file by specifying a log file name and enabling the log capture.

Log capture can be enabled or disabled at the your discretion. A message is printed in the log file indicating the date and time the capture was enabled or disabled.

APPENDIX G Feature Activation

SECTION 1 INTRODUCTION

There are three methods for activation of features on the CD-CP00-US: automatic activation via PCPro, manual activation via PCPro and manual activation via WebPro.

SECTION 2 FEATURE ACTIVATION USING PCPRO

Some system features require registration before they can be used. Feature Activation registers these features automatically via the Internet or manually through input of Activation Codes. Feature Activation can only occur when PCPro is connected to a system.

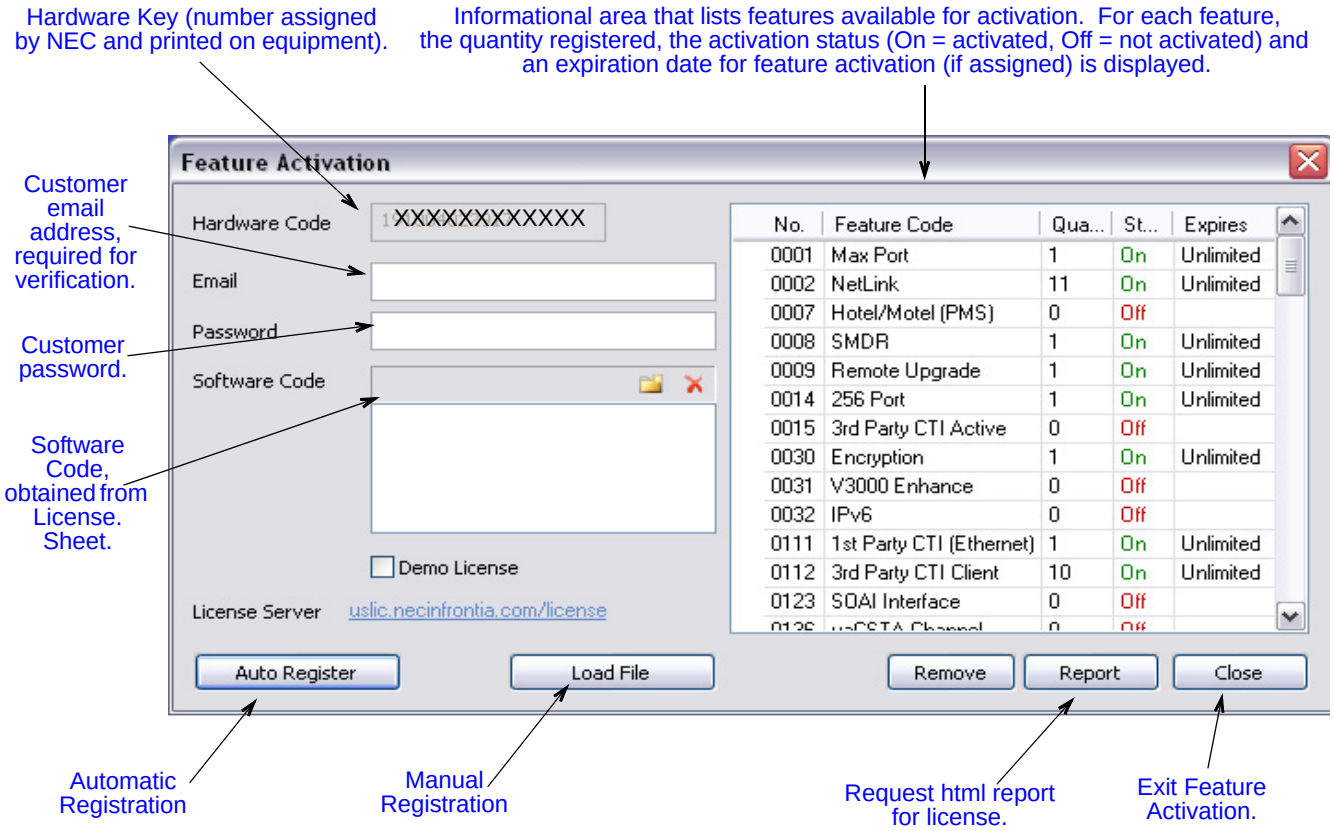


Figure G-1 PCPro Feature Activation Dialog

2.1 Accessing Feature Activation

When PCPro is connected to a chassis, access the Feature Activation dialog by selecting the menu item **Communications > Feature Activation**.

2.2 Automatically Activating a Feature

Automatic Activation requires PCPro to have an Internet connection to communicate the NEC Product License Server. The NEC Product License Server provides PCPro with the license file. The license file contains the Software Code, which is required to activate the feature.

To activate a feature automatically:

1. Launch PCPro and access **Feature Activation** (refer to 2.1 Accessing Feature Activation.)
2. If connected to the SV8100 system, the Hardware Code is retrieved and displayed.
3. Enter your email address in the **Email** field.

   ✎ *This email address is the same address you provided to the NEC Dealer Portal.*
4. Enter your **Password** (assigned by NEC to access the license server).

   Once the email and password are verified, a license file is returned. This file is sent from the license server.
5. Click **Auto Register**.
6. When the confirmation dialog is returned, click **Save & upload now** to immediately save the file on the ProPro database and activate the feature. (Refer to Figure G-2 Feature Activation Confirmation Dialog on page G-3.)

   ✎ *If you chose **Save only**, you need to access PCPro and manually activate the feature. **Save only saves the file on the PCPro database, but does not activate the feature.***

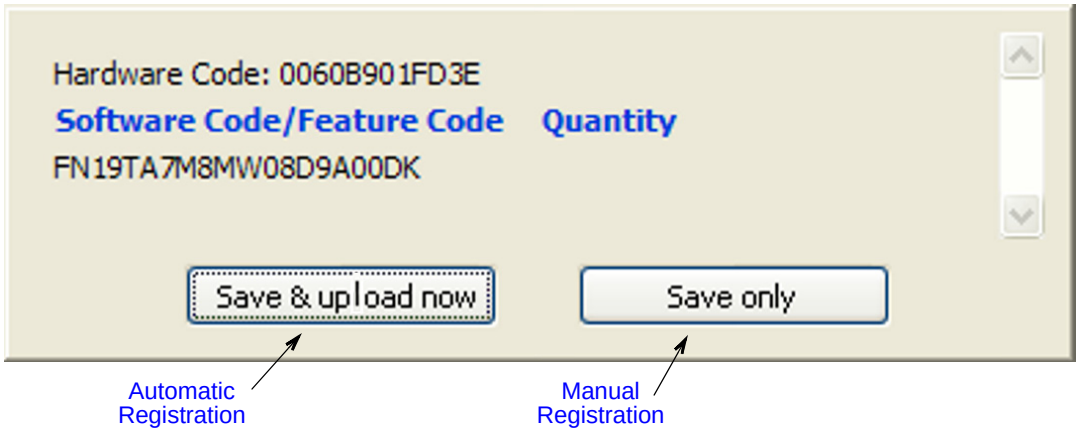


Figure G-2 Feature Activation Confirmation Dialog

2.3 Manually Activating a Feature

Manual Activation does not require that you have an Internet connection. However, you must have previously downloaded the license file that was generated by the NEC Product License Server. The license file contains the Software Code, which is required to activate the feature.

To activate a feature manually:

1. Launch PCPro and access **Feature Activation** (refer to 2.1 Accessing Feature Activation).

2. If connected to the SV8100 system, the Hardware Code is retrieved and displayed.

3. Click **Load File** (refer to Figure G-3 Feature Activation Open File Dialog on page G-4).

   ✎ *This file can reside on the PC or you can copy it to a flash drive to reference if activating other locations.*

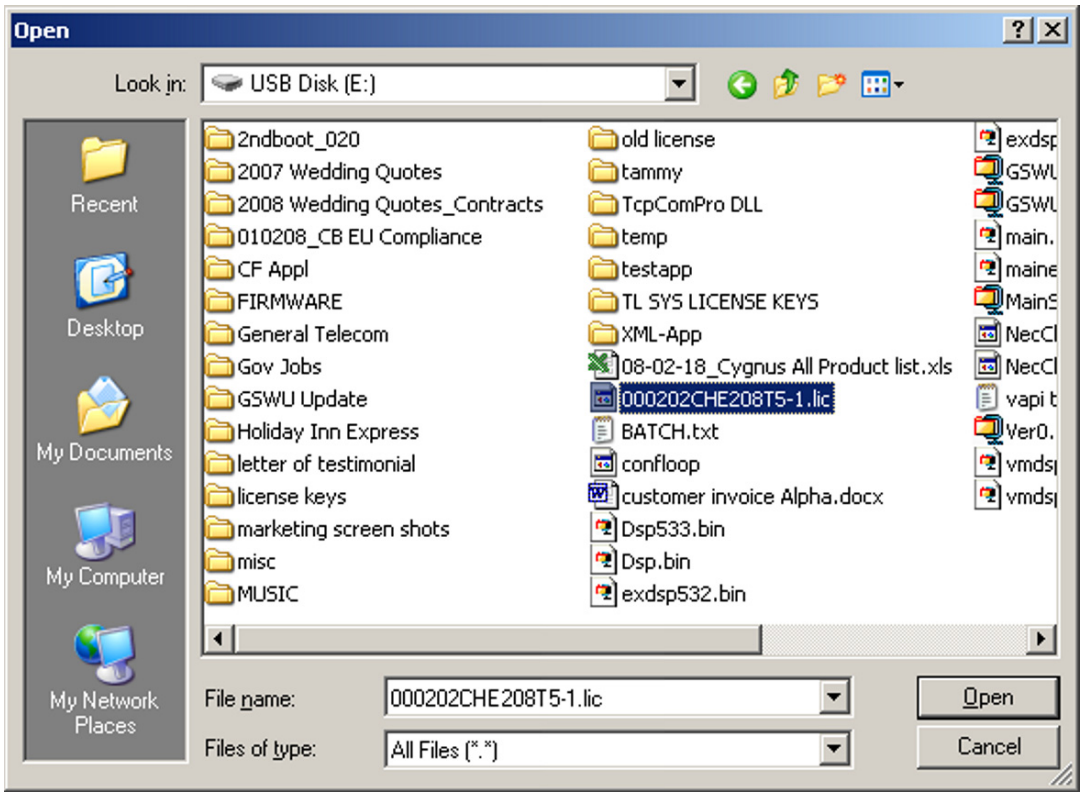


Figure G-3 Feature Activation Open File Dialog

4. When you have located the file (xxxxxxx.lic), select it and click **Open**.

5. When the confirmation dialog is returned, click **Save & upload now** to immediately save the file on the ProPro database and activate the feature (refer to Figure G-2 Feature Activation Confirmation Dialog).

SECTION 3 FEATURE ACTIVATION USING WEBPRO

WebPro can also be used to manually activate features.

3.1 Manually Activating a Feature

To activate a feature using WebPro, you must have Internet connection.

1. Point your browser at the IP address of the CD-CP00-US (set in PGM 10-12-01).

2. When the Home page is displayed, enter the **User Name** and **Password**.

   The default User Name = **tech** and Password = **12345678**.

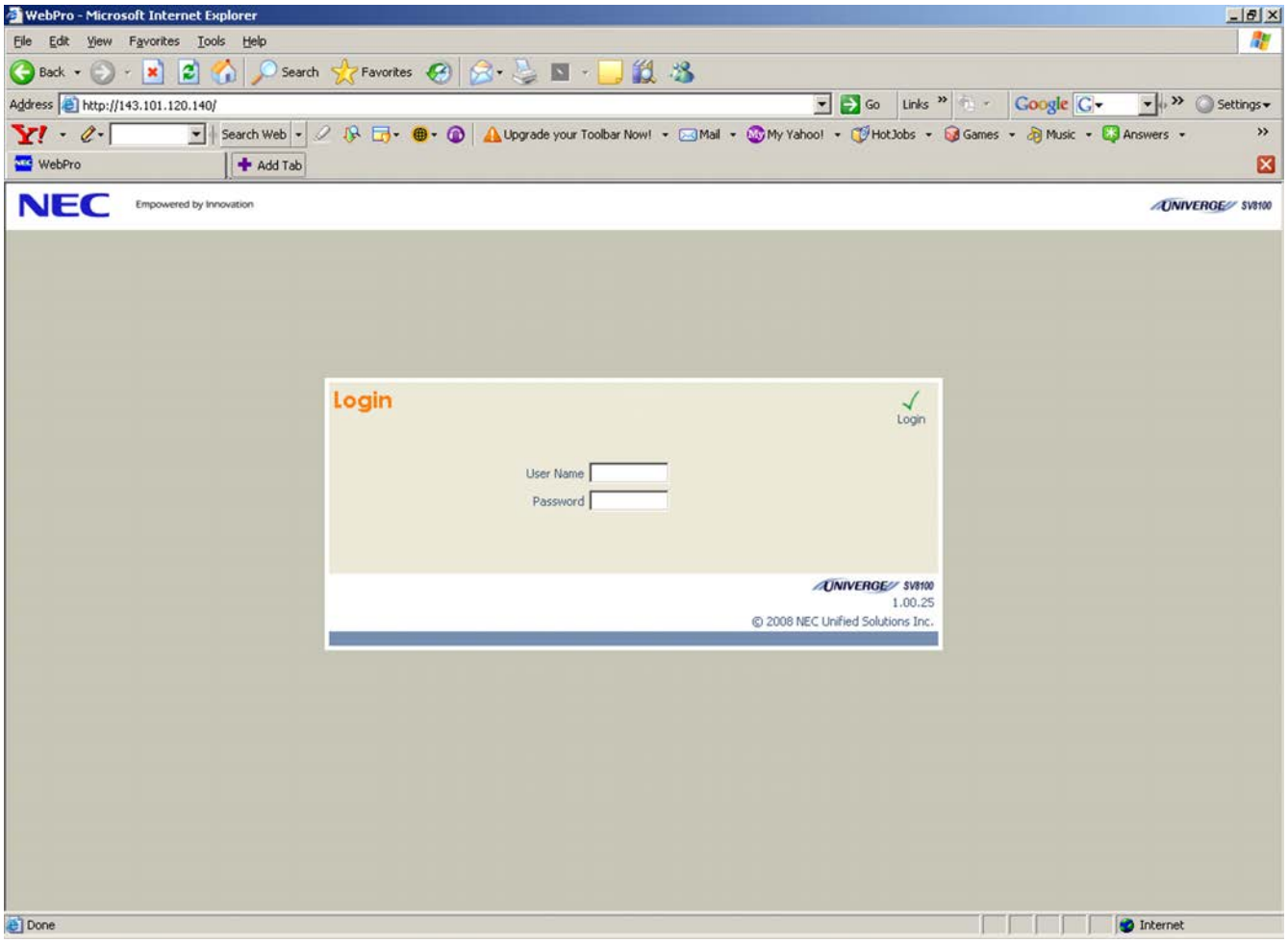


Figure G-4 WebPro Login Screen

3. If login was successful, the WebPro Home page is displayed. Click **Feature Activation**.

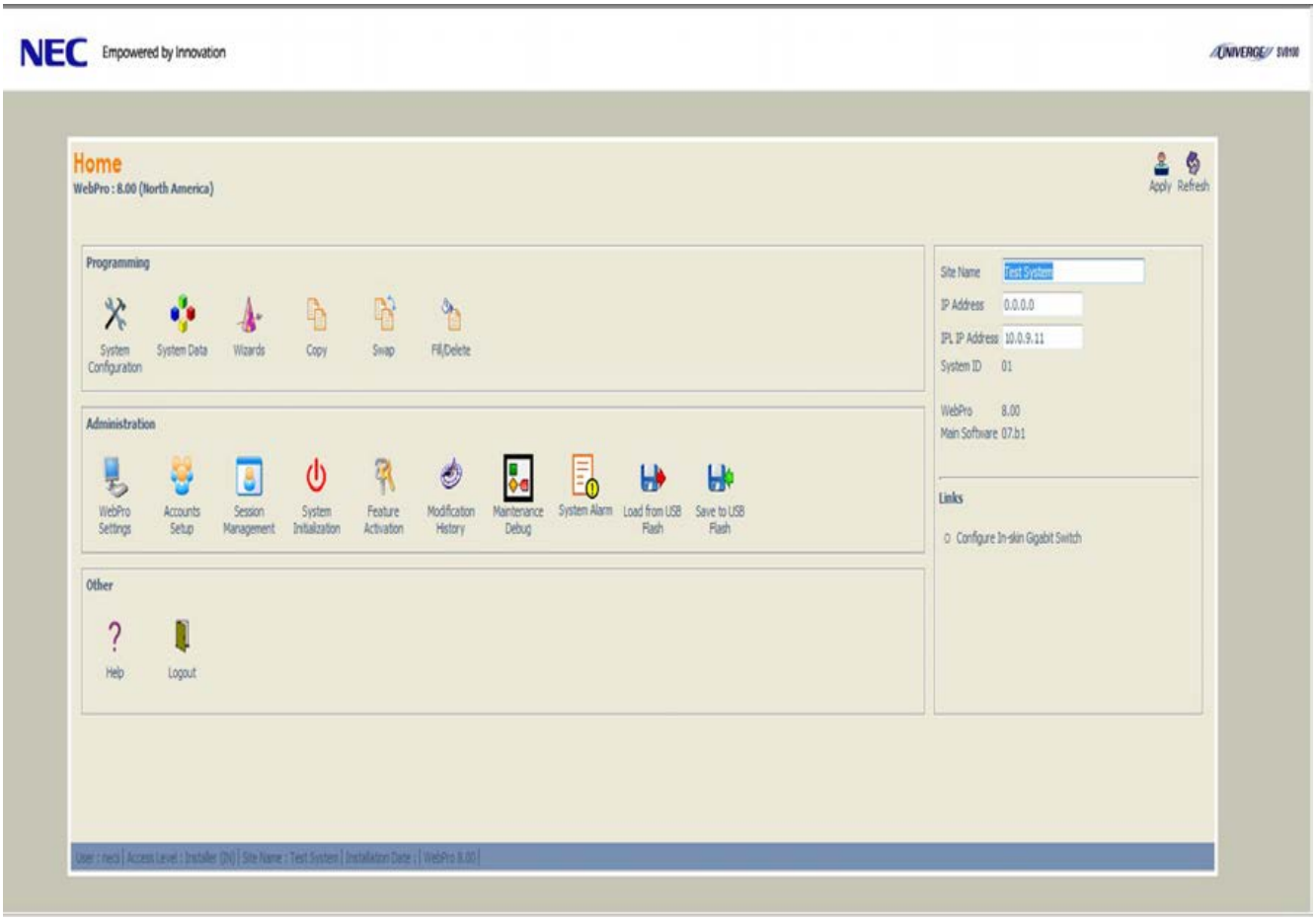


Figure G-5 Feature Activation Screen WebPro Home Page

4. The WebPro License Registration dialog is displayed.

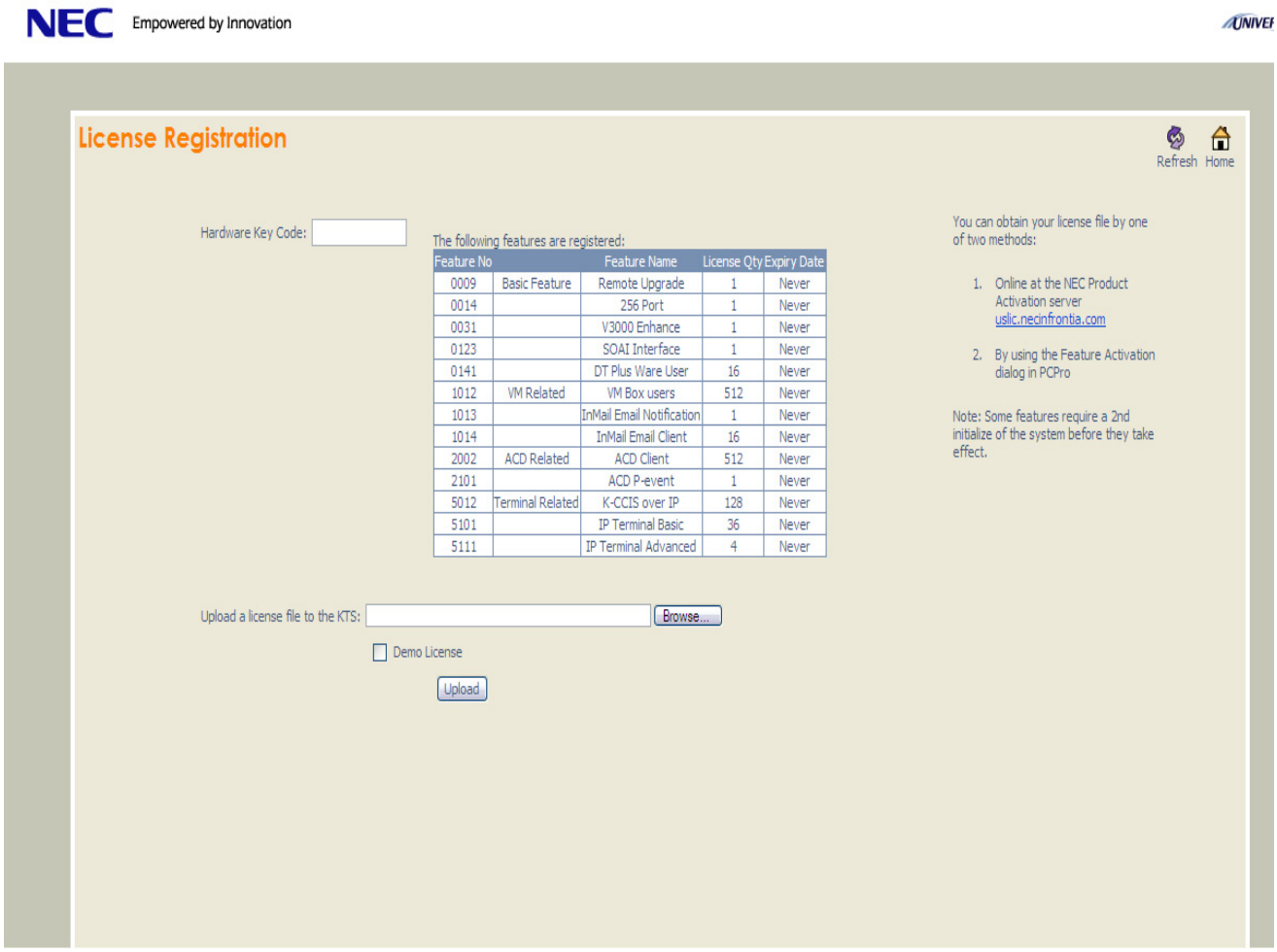


Figure G-6 Feature Activation Screen WebPro Manual Activation

5. If connected to the SV8100 system, the Hardware Code is retrieved and displayed.

6. In the **Upload a license file to the KTS** field, click **Browse** to locate the license file (XXXXXXX.lic).

   ✎ *This file can reside on the PC or you can copy it to a flash drive to reference if activating other locations.*

   ✎ *The license file is obtained by accessing the NEC Product Activation Server, or by activating the feature using PCPro (refer to Section 3 Feature Activation Using WebPro on page G-5).*

7. When the Open dialog is displayed, select the license file and click **Open**. When prompted to proceed, click **Yes**.

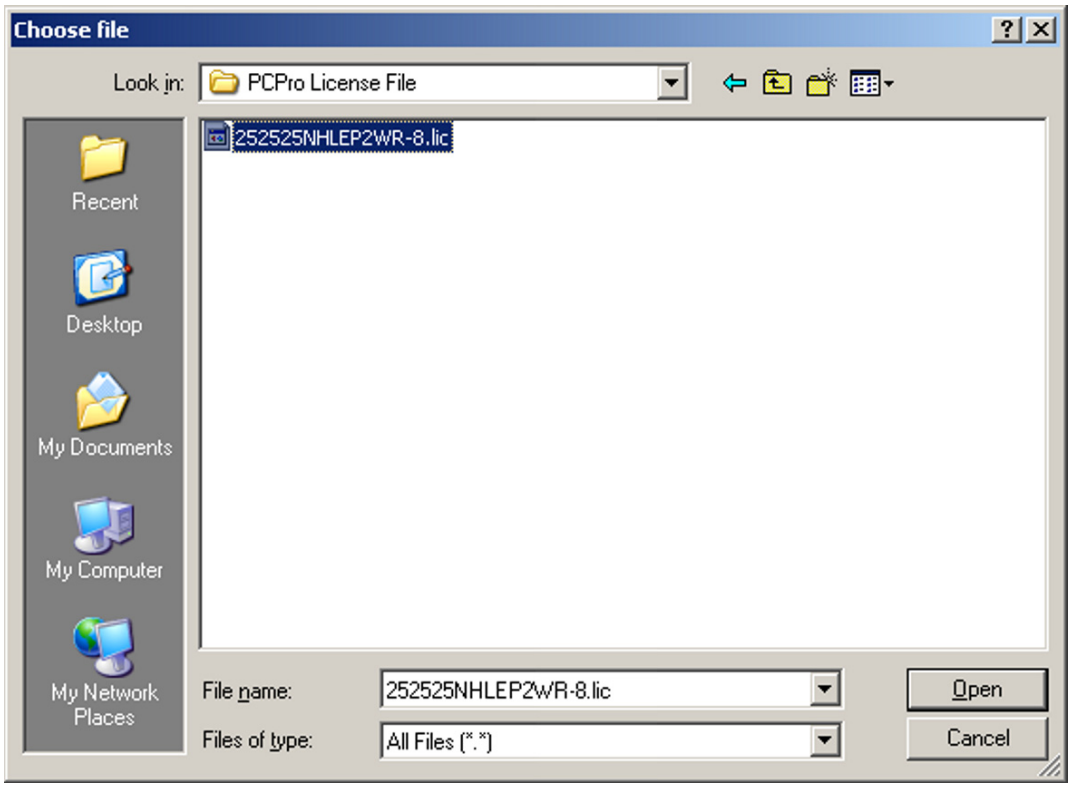


Figure G-7 Feature Activation Open File Dialog WebPro

8. Click **Upload** to retrieve the license file.
9. If the license file upload is successful, the feature is activated.

3.2 Recovery License

Recovery License allows you to license all the features for 30 days. Please refer to the **SV8100 Features and Specifications Manual** for more information.

To Activate the Recovery License:

1. Go to **https://eip.necunified.com/login.aspx**

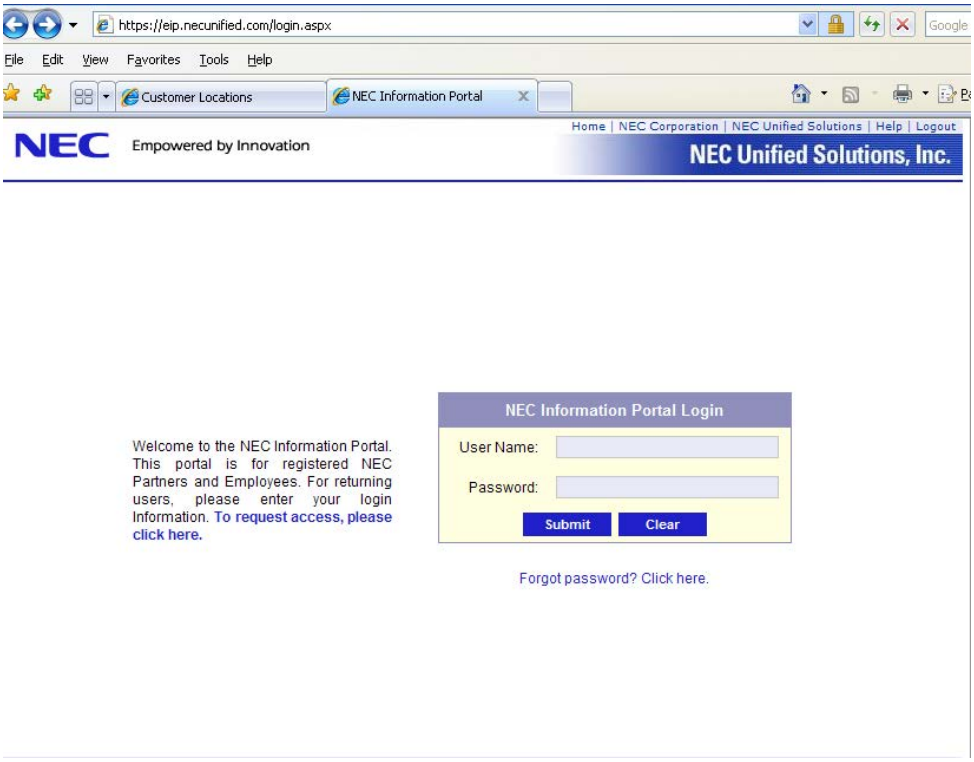


Figure G-8 NEC Information Portal Login Screen

2. Input the User Name and Password.

3. Go to the Recovery License section.

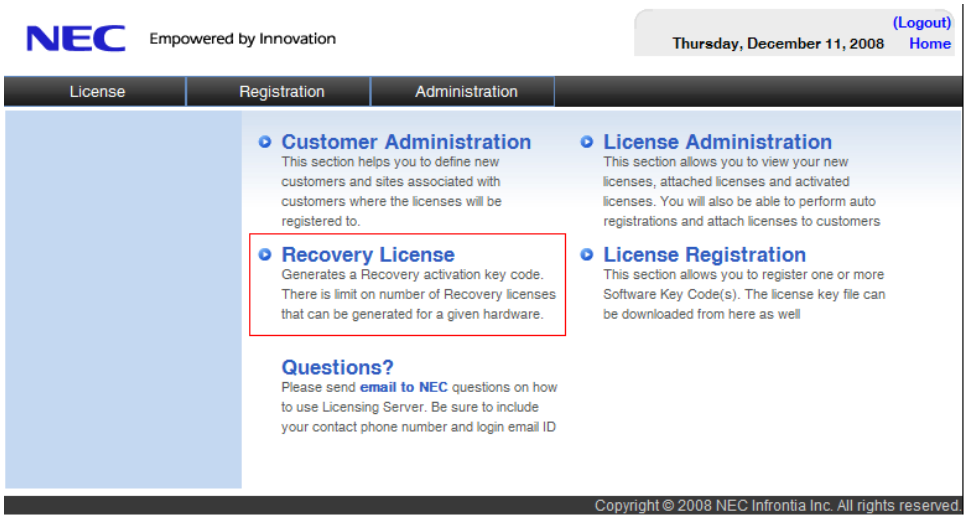


Figure G-9 Recovery License Access Screen

4. Select the Company and Site location.

5. Generate Recovery License.

   ✎ *You can only have two for each site.*

3.3 Further Information

For further information on Feature Activation visit:

https://eip.necunified.com/login.aspx

APPENDIX H Elite IPK II Database File Conversion

SECTION 1 OVERVIEW

This feature converts an Electra Elite IPK II PCPro database file into a SV8100 PCPro database file.

Software Version 3.00 or higher is required for this feature.

SECTION 2 OPERATION

Use the following procedure to perform the database file conversion.

2.1 SV8100 PCPro

1. Select Tools/Import/IPKII PCPro File.

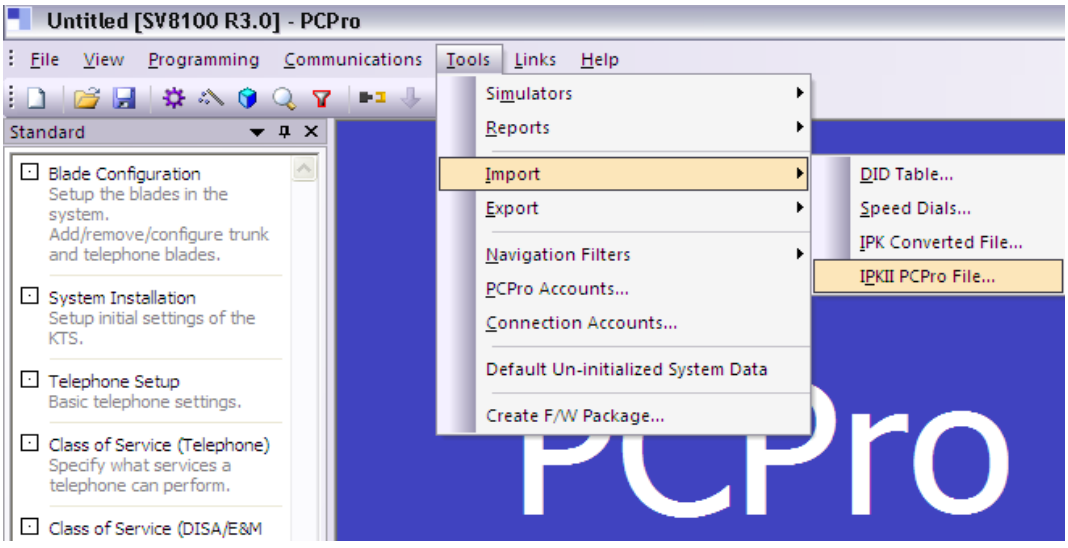


Figure H-1 Import File Screen

2. PCPro displays the PIPK Data Conversion Dialog screen. The user selects the data file of the Elite IPK II PCPro (.pcp), then clicks the Load Data button.

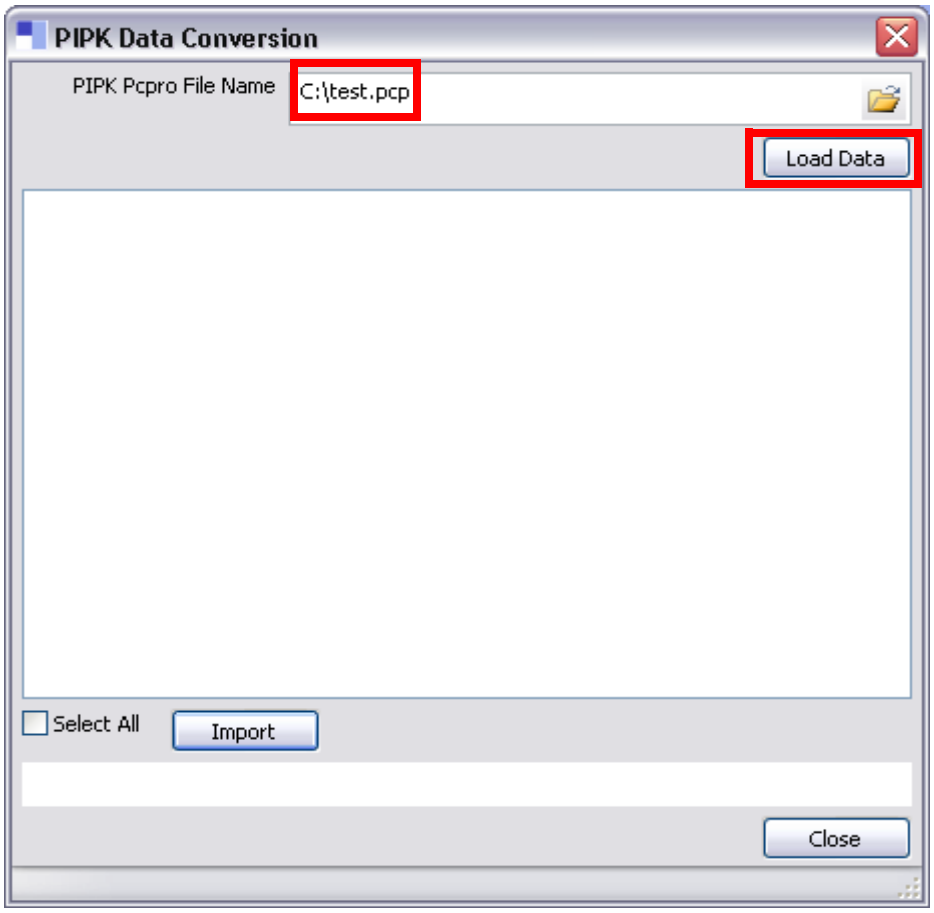


Figure H-2 PIPK Data Conversion Dialog Screen

3. PCPro displays the system data list. Select the system data to be converted.

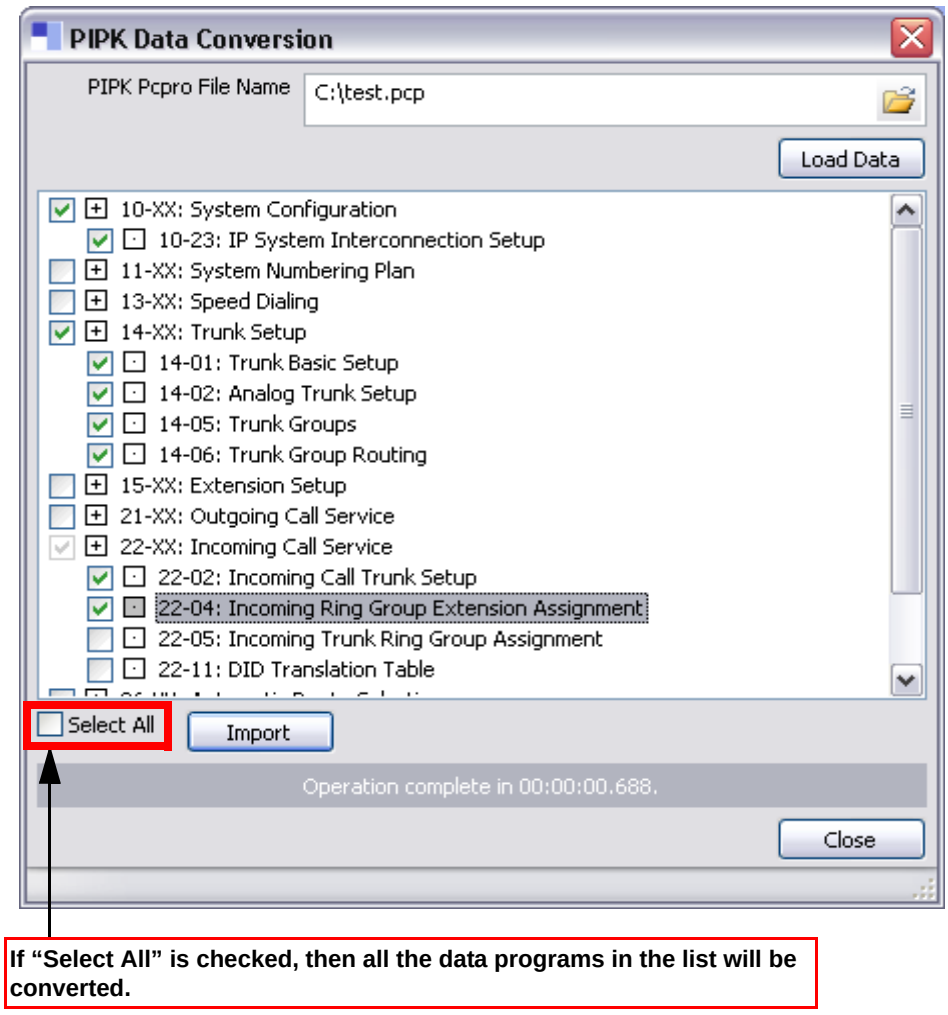


Figure H-3 System Data List

4. When the user clicks **Import**, the selected system data is converted into the SV8100 PCPro Database. For conversion limitations, refer to the table shown next.

The system data to be converted is limited to the system data listed below.

Program Number	Program Name
10-23	IP System Interconnection Setup
11-01	System Numbering
11-02	Extension Numbering
13-04	Abbreviated Dial Number and Name
14-01	Trunk Basic Data Setup
14-02	Analogue Trunk Data Setup
14-05	Trunk Group
14-06	Trunk Group Routing
15-01	Extension Basic Data Setup
15-07	Programmable Function Key
21-02	Trunk Group Routing for Extensions
22-02	Incoming Service Type Setup
22-04	Incoming Ring Group Setup
22-05	IRG Assignment for Normal Ring Trunk
22-07	DIL Assignment
22-11	Dial-In Conversion Table Data Setup
26-01	Automatic Route Selection Service
26-02	Dial analysis Table for ARS/LCR
26-03	ARS Dial Treatments
26-04	ARS Class of Service
26-11	Transit Network ID Table
26-12	Network Specified Parameter Table for ARS/F-Route
40-02	Mail Box Setup
44-02	Dial analysis Table for F-Route Access
44-05	F-Route Table
44-06	Additional Dial Table

APPENDIX I *UX5000 to SV8100 Database File Conversion*

SECTION 1 OVERVIEW

SV8100 PCPro Version 4.0 or higher supports the ability to open a PCPro database saved by UX5000 PCPro (V1.xx ~ V3.xx) and also converting the Database to SV8100 format. SV8100 PCPro cannot be used to connect directly to a UX5000 database. Only UX5000 PCPro is supported to connect directly to a UX5000 database.

SECTION 2 OPERATION

Use the following procedure to perform a UX5000 to SV8100 database file conversion.

2.1 Database Conversion

1. Run UX5000 PCPro and select **Communications** > **Connect** to connect to the UX5000 system, Figure I-1 - UX5000 Connection.

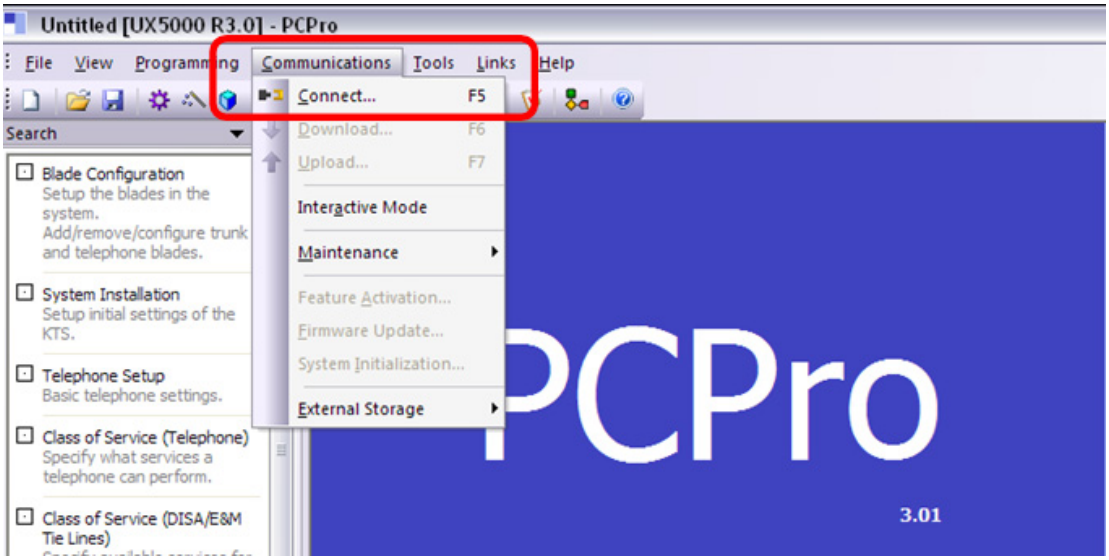


Figure I-1 UX5000 Connection

2. Once connected, click **Communication** > **Download** to download the database, Figure I-2 - Download Database Screen.

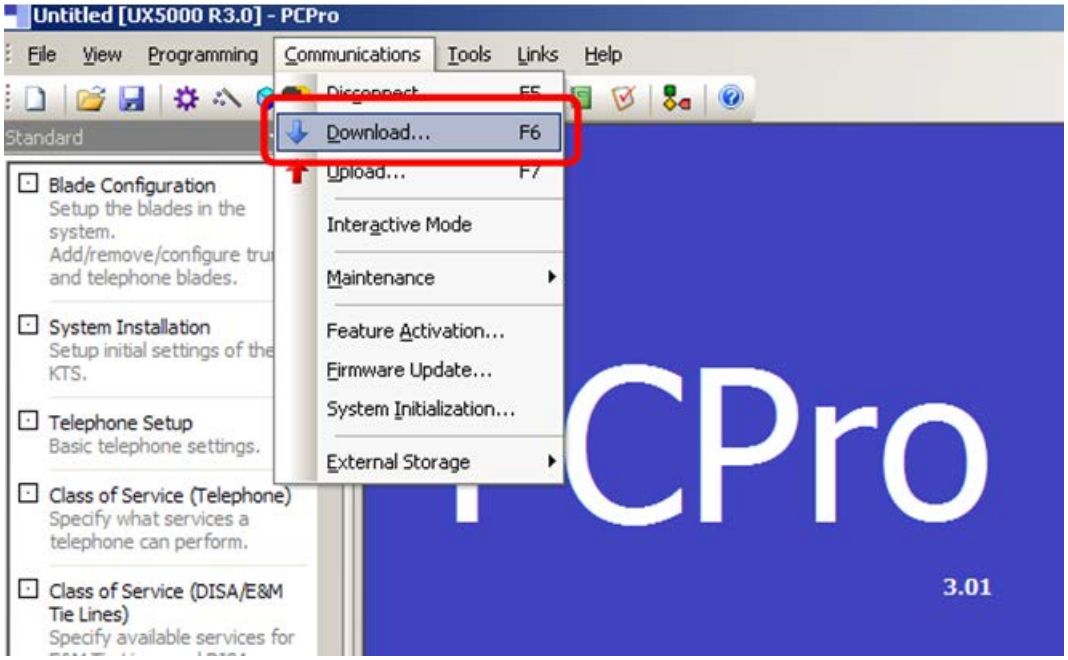


Figure I-2 Download Database Screen

3. After the download is complete, click **File** > **Save** or **Save As** to save the UX5000 PCPro database, Figure I-3 - Database Save.

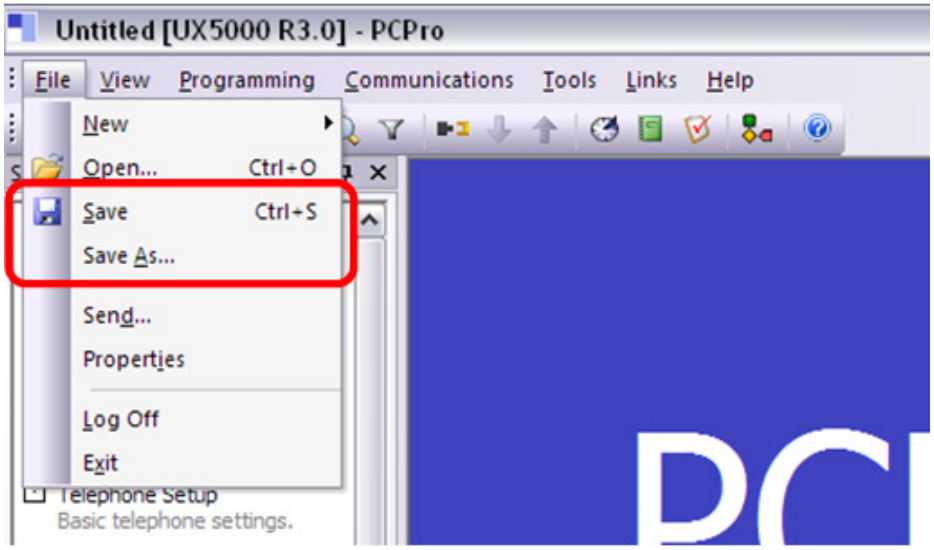


Figure I-3 Database Save

4. Launch SV8100 PCPro and click **File** > **Open** to open the UX5000 PCPro database saved in Figure I-3 - Database Save.

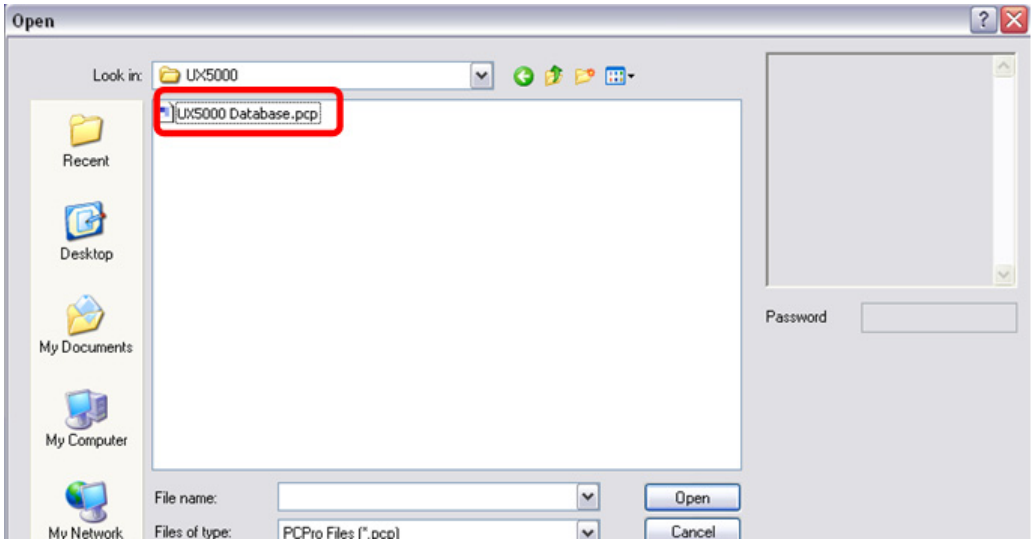


Figure I-4 Open Database

5. Click **Open** on the Open dialog screen, Figure I-4 - Open Database. Figure I-5 - Database Conversion Confirmation appears.

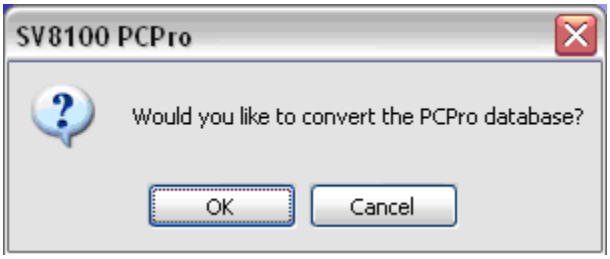


Figure I-5 Database Conversion Confirmation

- If you click **OK**, the original UX5000 database is converted to an SV8100 PCPro database and then opened as an SV8100 PCPro screen.
- If you click **Cancel**, the UX5000 database is not converted and the previous PCPro database remains.

✎ *All UX5000 PCPro database versions (v1 ~ v3) are supported.*

All programs are converted except for the following shown in Table I-1 - Conversion Exceptions.

Table I-1 Conversion Exceptions

PRG10-07-01	Conversation Record Circuits
PRG10-22-xx	Setting the Wake On LAN for APSU
PRG10-41-xx	General Purpose Contact Detector Setup
PRG11-10-02	Changing the Music on Hold Tone
PRG11-11-06	Call Forwarding (United Method)
PRG11-11-40	VAU/Off-premise call forwarding
PRG11-11-61	Set or Cancel Call Forward for Centrex
PRG11-14-19	Hotel Room Data Set
PRG11-19-01	Remote Conference Pilot Number Setup
PRG14-09-04	ACI Automatic Recording for Outgoing Call
PRG15-02-09	Auto answer to incoming call from Extension
PRG15-03-13	MW sending type
PRG15-03-17	Dial Tone select

Table I-1 Conversion Exceptions

PRG15-05-03	Default URL address
PRG15-05-05	H.323 Terminal Type
PRG15-05-08	H.323 RAS Port
PRG15-05-09	Call Control Port
PRG15-07-01	16:Call Forward to Station 17:Call Forward to Device *30:Call 1 Key *31:Call 2 Key
PRG15-12-03	Recording Contents Storing Method (DSPDB)
PRG15-12-04	ACI Automatic Recording for Outgoing Call
PRG20-01-03	DSP Sender Resource Selection
PRG20-02-03	BLF Control
PRG20-04-01	Virtual Extension Key Operation Mode
PRG20-13-46	Remote Conference
PRG20-17-02	Operator Console Mode
PRG20-19-03	Caller ID Edit Mode
PRG20-34-xx	Remote Conference Group Setup
PRG24-06-01	Fixed Call Forwarding
PRG24-07-01	Fixed Call Forwarding Off Premise
PRG24-08-xx	Call Forward for Centrex
PRG26-01-04	LCR Mode Option
PRG30-03-01	16:Call Forward to Station 17:Call Forward to Device 98:Message Waiting Indication Key
PRG30-05-01	Idle Extension
PRG31-03-02	Internal Paging Splash Tone
PRG35-02-19	Dialed Number Output Format
PRG35-02-20	External CFW Information mode
PRG41-08-03	Delay Announcement Source Type

Table I-1 Conversion Exceptions

PRG41-08-07	DSPDB-VM Message Box No With Overflow
PRG41-08-08	First Delay Announcement Source Type
PRG41-08-09	Second Delay Announcement Source Type
PRG45-02-02	Forced Send Dial Tone
PRG45-02-04	NSL over LAN
PRG45-03	NSL Timer Setup
PRG84-08-01	Firmware Name Setup
PRG84-11-30	Auto Gain Control

2.2 Initializing UX5000 Default Value

1. Run SV8100 PCPro.
2. Click **File** > **New** > **SV8100 North America** > **SV8100 R8.0 (UX5000 defaults),** **Figure I-6 - Initial Screen**.

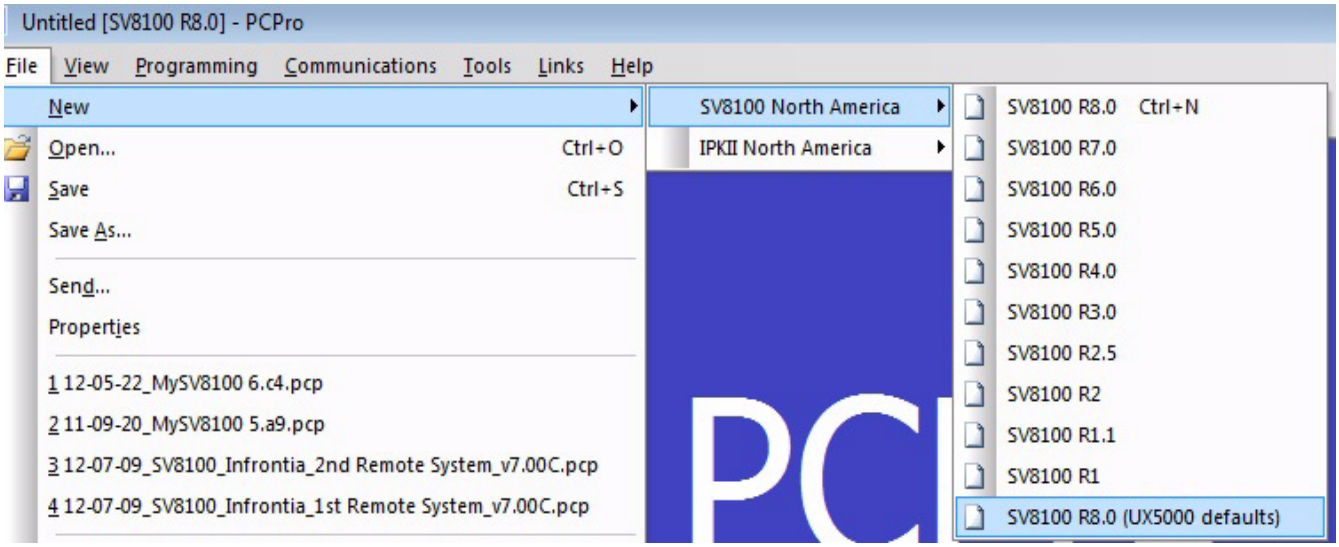


Figure I-6 Initial Screen

3. Click the **OK** button that is depicted on Figure I-7 - Conversion Confirmation.

The default value on the UX5000 is loaded to the SV8100 database.

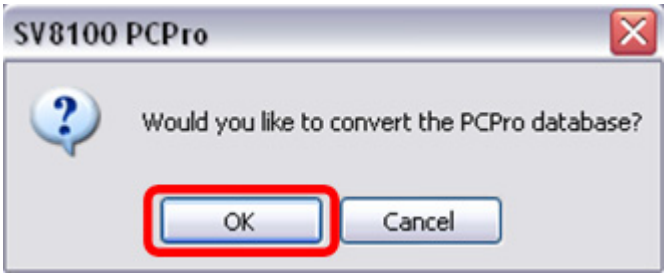


Figure I-7 Conversion Confirmation

If you click **Cancel**, there is no conversion and the PCPro Database opens as a basic SV8100 database. :

2.3 UX5000 to SV8100 Default Differences

10-20 : LAN Setup for External Equipment

Item No.	Item	UX5000 Value	SV8100 Value
02	ACD MIS - TCP Port	0	4000

11-01 : System Numbering

1st and 2nd Dial Digits	2nd Dial Digit	Dial Type/ Dial Digit Length	UX5000 Value	SV8100 Value
1x	1-digit access code	Type	Service Code (1)	Extension (2)
3x	1-digit access code	Dial Digit Length	3	4
4x	1-digit access code	Type	Extension (2)	Service Code (1)
5x	1-digit access code	Dial Digit Length	4	3
		Type	Extension (2)	Service Code (1)
6x	1-digit access code	Type	Extension (2)	Service Code (1)
7x	1-digit access code	Type	Extension (2)	Service Code (1)
8x	1-digit access code	Dial Digit Length code	3	1

11-02 : Extension Numbering

Extension Port Number	Item	UX5000 Value	SV8100 Value
1-512	Extension	301-499,5000-5312	101-199,3101-3513

11-04 : Virtual Extension Numbering

Virtual Extension Port Number	Item	UX5000 Value	SV8100 Value
1-256	Virtual Extension		201-299, 3601-3757

11-10 : Service Code Setup (for System Administrator)

Service Code	Function	UX5000 Value	SV8100 Value
01	Night Mode Switching for Own Group	818	718
03	Set System Time	828	728
04	Store Common Speed Dials	853	753
05	Store Group Speed Dials	854	754
06	Set Trunk to Trunk Transfer per Trunk	833	733
07	Cancel Trunk to Trunk Transfer per Trunk	834	734
08	Set Trunk to Trunk Transfer Destination per Trunk	835	735
12	Night Mode Switching for Other Group	118	618
16	Leave Message Waiting	126	626

11-10 : Service Code Setup (for System Administrator)

Service Code	Function	UX5000 Value	SV8100 Value
17	Supervisor Dial Block per Extension	101	601
18	Call Forward Off-Premise by Doorphone	822	722
20	Playback/Record/Erase VRS Message	116	616
21	Playback VRS General Message	111	611
22	Record/Erase VRS General Message	112	612
23	Print SMDR per Extension	121	621
24	Print SMDR per Department Group	122	622
25	Print SMDR per Account Code	123	623
26	Forced Trunk Disconnect (Analog Trunk only)	*3	
27	Trunk Port Disable for Outgoing Calls	145	645

11-11 : Service Code Setup (for Setup/Entry Operation)

Service Code	Function	UX5000 Value	SV8100 Value
01	Set/Cancel Call Forward Immediate		741
02	Set/Cancel Call Forward Busy		742
03	Set/Cancel Call Forward No Answer		743
04	Set/Cancel Call Forward Busy/No Answer		744
05	Set/Cancel Call Forward Both Ring		745
07	Set/Cancel Call Forward Follow-me		746
08	Set/Cancel Do Not Disturb	847	747
10	Cancel All Messages Waiting	873	773

11-11 : Service Code Setup (for Setup/Entry Operation)

Service Code	Function	UX5000 Value	SV8100 Value
11	Cancel Message Waiting	871	771
12	Set Alarm Clock	827	727
13	Set Display Language	178	678
15	Enable Handsfree Incoming Intercom Calls	821	721
16	Enable Force Ringing of Incoming Intercom Calls	823	723
17	Set Programmable Function Keys (Normal Codes)	851	751
18	Enable/Disable Background Music	825	725
19	Enable/Disable Key Touch Tone	824	724
20	Set Incoming Ring Tones	820	720
21	Play Incoming Ring Tones	811	711
22	Set Extension Name	800	700
23	Enable/Disable Second Call Override	179	679
24	Set Class of Service per Extension	177	677
25	Enable Transfer All per Department Group	102	602
26	Disable Transfer All per Department Group	103	603
27	Set Transfer Destination per Department Group	104	604
28	Enable Delayed Transfer per Department Group	105	605
29	Disable Delayed Transfer per Department Group	106	606
30	Enable Do Not Disturb per Department Group	107	607
31	Disable Do Not Disturb per Department Group	108	608
33	Dial Block	100	600
34	Temporary Toll Restriction Override	875	775
35	Department Group Login/Logout	150	650
36	Walking Toll Restriction	163	663
37	Adjust Ring Volume	829	729
38	Set Programmable Function Keys (Appearance Codes)	852	752
39	One Touch Dial Entry	855	755
42	Wireless Transfer when Out Of Range		689
43	Enable/Disable Headset Ringing Mode Switching	188	688
52	Set/Cancel Call Forward All Calls per Extension		790
53	Set/Cancel Call Forward Busy per Extension		791

11-11 : Service Code Setup (for Setup/Entry Operation)

Service Code	Function	UX5000 Value	SV8100 Value
54	Set/Cancel Call Forward No Answer per Extension		792
55	Set/Cancel Call Forward Busy/No Answer per Extension		793
58	Call Forward with VAU Personal Greeting		713
62	Adjust Headset Ring Volume	874	662

11-12 : Service Code Setup (for Service Access)

Service Code	Function	UX5000 Value	SV8100 Value
01	Call Forward/Do Not Disturb Override)	807	707
03	Override Off-hook Signaling	809	709
04	Set Camp-on	850	750
05	Cancel Camp-on	870	770
06	Voice Call & Signal Call Switching	812	712
07	Step Call	808	708
08	Barge-in	810	710
13	Saved Number Redial	815	715
14	Trunk Group Access	804	704
17	Clear Last Number Redial	876	776
18	Clear Saved Number Redial List	885	785
19	Internal Group Paging	801	701
20	External Paging	803	703
21	Meet-me Answer to Specified Internal Paging Group	864	764
22	Meet-me Answer to External Paging	865	765
23	Meet-me Answer in Same Paging Group	863	763
25	Direct Call Pickup for Own Group	856	756
26	Call Pickup for Specified Group	868	768
28	Call Pickup for Any Group	869	769
30	Specified Trunk Answer	172	672
33	Group Hold	832	732

11-12 : Service Code Setup (for Service Access)

Service Code	Function	UX5000 Value	SV8100 Value
34	Answer for Group Hold	862	762
35	Station Park Hold	857	757
36	Doorphone Access	802	702
37	Common Canceling Service Code	120	620
38	General Purpose Indication	883	783
41	Voice Over	890	690
44	SLT Callback Test	899	799
45	Enable SLT On-hook When Holding	849	749
46	Answer SLT On-hook When Holding	859	759
47	SLT Call Waiting Answer/Split Answer	894	794
50	General Purpose Relay	880	780
53	SLT Live Recording	154	654
54	ANI/DNIS Routing to VRS	882	782
56	E911 Alarm Shut Off	886	786
58	Transfer Into Conference	124	624

11-13 : Service Code Setup (for ACD)

Service Code	Function	UX5000 Value	SV8100 Value
02	SLT ACD Logout	155	655
03	Set SLT ACD Wrap-Up Time	156	656
04	Cancel SLT ACD Wrap-Up Time	157	657
05	Set SLT ACD Off Duty	158	658
06	Cancel SLT ACD Off Duty	159	659
10	Supervisor ACD Agent Login	167	667
11	Supervisor ACD Agent Logout	168	668
12	Supervisor Change Agent ACD Group	169	669
13	Change Agent for Own ACD Group	170	670

11-14 : Service Code Setup (for Hotel)

Service Code	Function	UX5000 Value	SV8100 Value
01	Enable Do Not Disturb for Own Extension	127	627
02	Disable Do Not Disturb for Own Extension	128	628
03	Enable Do Not Disturb for Other Extension	129	629
04	Disable Do Not Disturb for Other Extension	130	630
05	Enable Wake-up Call for Own Extension	131	631
06	Disable Wake-up Call for Own Extension	132	632
07	Enable Wake-up Call for Other Extension	133	633
08	Disable Wake-up Call for Other Extension	134	634
09	Enable Room to Room Call Restriction	135	635
10	Disable Room to Room Call Restriction	136	636
11	Change Toll Restriction Class for Other Extension	137	637
12	Check-in	138	638
13	Check-out	139	639
14	Change Room Status for Own Extension	140	640
15	Change Room Status for Other Extension	141	641
16	Print Room Status	142	642
17	Hotel Room Monitor	175	675
18	Set Hotel PMS Toll Restriction	166	666

11-15 : Service Code Setup, Administrative (for Special Access)

Service Code	Function	UX5000 Value	SV8100 Value
01	Remote Maintenance	830	730
02	ACD Access in DID Translation Table	860	760
08	Network Message Lamp Control	866	766
14	Modem Access		740

11-16 : Single Digit Service Code Setup

Service Code	Function	UX5000 Value	SV8100 Value
01	Step Call	#	2
04	Intercom Off-hook Signaling	7	*
05	Camp-on	2	#

14-02 : Analog Trunk Data Setup

Trunk	Item	UX5000 Value	SV8100 Value
1~200	02 - Incoming Call Detection Type	Normal (0)	Immediately ring (1)
	17 - Synchronous Ringing	Not Checked (0)	Checked (1)
	23 - Caller ID Receiving Method	Wait Caller ID (0)	Immediate Ring (1)

14-07 : Trunk Access Map Setup

Access Map	Trunk	UX5000 Value	SV8100 Value
2-200	1-200	No (0)	INC/OTG/Hold (7)

15-01 : Basic Extension Data Setup

ICM Extension	Item	UX5000 Value	SV8100 Value
301	01 - Name	STA 301~499, 5000~5312	STA 101~199, 3101~3513

15-02 : Multiline Telephone Basic Data Setup

Item No.	Item	UX5000 Value	SV8100 Value
12	Off-hook Signaling Type	Muted Off-hook Ringing (0)	1 Beep Tone in Speaker and Handset (5)
35	Message Waiting Lamp Cycle for Calling Extension	Cycle 7 (1000ms on) (7)	Cycle 3 (125ms on, 125ms off) (3)
36	Message Waiting Lamp Cycle for Called Extension	Cycle 3 (125ms on, 125ms off) (3)	Cycle 2 (250ms on, 250ms off) (2)
38	Voice Mail Message Waiting Lamp Cycle	Cycle 3 (125ms on, 125ms off) (3)	Cycle 2 (250ms on, 250ms off) (2)
47	DESI-less Icon Display	Not Checked (0)	Checked (1)

15-05 : IP Telephone Terminal Basic Data Setup

Extension	Item	UX5000 Value	SV8100 Value
301~499, 5000~5312	01 - Terminal Type	NGT (0)	MEGACO (3)

15- 18 : Virtual Extension Key Enhanced Options

ICM Extension	Item	UX5000 Value	SV8100 Value
301-499, 5000-5312	Display Mode when placing a Call on Virtual Extension Key	Display Secondary Extension Name (0)	Display Actual Station Name (1)

15-20 : LCD Line Key Name Assignment

Extension	Function Key	UX5000 Value	SV8100 Value
301-499, 5000-5312	1	LINE 1	CO 001

15-20 : LCD Line Key Name Assignment

Extension	Function Key	UX5000 Value	SV8100 Value
	2	LINE 2	CO 002
	3	LINE 3	CO 003
	4	LINE 4	CO 004
	5	LINE 5	CO 005
	6	LINE 6	CO 006
	7	LINE 7	CO 007
	8	LINE 8	CO 008

20-02 : System Options for Multiline Telephones

Item No.	Item	UX5000 Value	SV8100 Value
01	Trunk Group Key Operation Mode	Keep Lamp (0)	Extinction (1)

20-04 : System Options for Virtual Extensions

Item No.	Item	UX5000 Value	SV8100 Value
04	Virtual Extension Key Seize Mode	Normal (0)	Enhanced (1)

20-09 : Class of Service Options (Incoming Call Service)

Class of Service	Item	UX5000 Value	SV8100 Value
1-15	01 - Second Call for DID/DISA/ DIL/E&M	Not Checked (0)	Checked (1)
	07 - Call Queuing	Not Checked (0)	Checked (1)

20-10 : Class of Service Options (Answer Service)

Class of Service	Item	UX5000 Value	SV8100 Value
1-15	08 - Automatic Off-hook Answer for Call Coverage Keys	Not Checked (0)	Checked (1)
	09 - Call Pickup for Callback	Not Checked (0)	Checked (1)

20-11 : Class of Service Options (Hold/Transfer Service)

Class of Service	Item	UX5000 Value	SV8100 Value
1-15	11 - Automatic On-hook Transfer	Checked (1)	Not Checked (0)
	23 - Set/Cancel VE/SE Call Forward	Not Checked (0)	Checked (1)
	24 - Trunk Park Hold Mode	Not Checked (0)	Checked (1)
	25 - Park Call Transfer Restriction	Not Checked (0)	Checked (1)

20-13 : Class of Service Options (Supplementary Service)

Class of Service	Item	UX5000 Value	SV8100 Value
1-15	36 - Call Duration Display	Not Checked (0)	Checked (1)
	45 - MIC Key Mode While Call Monitoring	Not Checked (0)	Checked (1)
	47 - Station Number Display	Not Checked (0)	Checked (1)

20-14 : Class of Service Options for DISA/E&M

Class of Service	Item	UX5000 Value	SV8100 Value
1-15	02 - Trunk Group Routing/ARS Access	Not Checked (0)	Checked (1)
	03 - Trunk Group Access	Not Checked (0)	Checked (1)
	05 - Operator Calling	Not Checked (0)	Checked (1)

20-14 : Class of Service Options for DISA/E&M

Class of Service	Item	UX5000 Value	SV8100 Value
1-15	06 - Internal Paging	Not Checked (0)	Checked (1)
	07 - External Paging	Not Checked (0)	Checked (1)
	12 - Retrieving Park Hold	Not Checked (0)	Checked (1)

20-15 : Ring Cycle Setup

Item No.	Incoming Signal Type	UX5000 Value	SV8100 Value
1	Normal Incoming Call on Trunk	Cycle 8 (0.375sec on, 0.25sec off, 0.375sec on, 2sec on) (8))	Cycle 2 (2sec on, 4sec off) (2)

20-17 : Operator Extension

Operator	Operator Extension	UX5000 Value	SV8100 Value
1	Extension	301	101

20-22 : System Options for Wireless

Item No.	Item	UX5000 Value	SV8100 Value
05	DECTPP Out of Range	0	8

20-25 : ISDN Options

Item No.	Item	UX5000 Value	SV8100 Value
08	Low Layer Compatibility (LLC)	Checked (1)	Not Checked (0)
09	High Layer Compatibility (HLC)	Checked (1)	Not Checked (0)

20-31 : Timer Class Timer Assignment

Time Class	Item	UX5000 Value	SV8100 Value
1	17 - VRS/DISA No Answer Time (Disconnect/Incoming Ring Group/Voice Mail)	30	0
	19 - Trunk to Trunk Long Conversation Warning Tone Time	180	3600

20-34 : Conference Group Setup

Conference Group	Setting	UX5000 Value	SV8100 Value
1	Name	Conf 1	
	Password	1111	
	Maximum Participants	8	0
	Maximum Conference Duration	7200	0
	Ending Conference Alert Tone Time	300	0
2	Name	Conf 2	
	Password	2222	
	Maximum Participants	8	0
	Maximum Conference Duration	7200	0
	Ending Conference Alert Tone Time	300	0
3	Name	Conf 3	
	Password	3333	
	Maximum Participants	8	0
	Maximum Conference Duration	7200	0
	Ending Conference Alert Tone Time	300	0
4	Name	Conf 4	
	Password	4444	
	Maximum Participants	8	0
	Maximum Conference Duration	7200	0
	Ending Conference Alert Tone Time	300	0

21-01 : System Options for Outgoing Calls

Item No.	System Option	UX5000 Value	SV8100 Value
18	Reset Dial after Trunk Access Failure	Enabled (0)	Disabled (1)

21-22 : CO Message Waiting Indication – Call Back Settings

Trunk	Item No.	Item	UX5000 Value	SV8100 Value
1~200	1	CO Message Waiting Indication Callback Speed Dial Destination	0	1999

25-07 : System Timers for VRS/DISA

Item No.	Item	UX5000 Value	SV8100 Value
02	VRS/DISA No Answer Interval	30	0
07	Long Conversation Warning Tone	180	3600

26-07 : LCR Cost Center Code Table

Extension	UX5000 Value	SV8100 Value
301-499, 5000-5312	301-499, 5000-5312	101-199,3101-3513

30-03 : DSS Console Key Assignment

DSS Console	DSS Key	Additional Data	UX5000 Value	SV8100 Value
1-32	1	Additional Data	301	101
	2	Additional Data	302	102
	3	Additional Data	303	103
	4	Additional Data	304	104
	5	Additional Data	305	105
	6	Additional Data	306	106

30-03 : DSS Console Key Assignment

DSS Console	DSS Key	Additional Data	UX5000 Value	SV8100 Value
	7	Additional Data	307	107
	8	Additional Data	308	108
	9	Additional Data	309	109
	10	Additional Data	310	110
	11	Additional Data	311	111
	12	Additional Data	312	112
	13	Additional Data	313	113
	14	Additional Data	314	114
	15	Additional Data	315	115
	16	Additional Data	316	116
	17	Additional Data	317	117
	18	Additional Data	318	118
	19	Additional Data	319	119
	20	Additional Data	320	120
	21	Additional Data	321	121
	22	Additional Data	322	122
	23	Additional Data	323	123
	24	Additional Data	324	124
	25	Additional Data	325	125
	26	Additional Data	326	126
	27	Additional Data	327	127
	28	Additional Data	328	128
	29	Additional Data	329	129
	30	Additional Data	330	130
	31	Additional Data	331	131
	32	Additional Data	332	132
	33	Additional Data	333	133
	34	Additional Data	334	134
	35	Additional Data	335	135
	36	Additional Data	336	136
	37	Additional Data	337	137
	38	Additional Data	338	138
	39	Additional Data	339	139

30-03 : DSS Console Key Assignment

DSS Console	DSS Key	Additional Data	UX5000 Value	SV8100 Value
	40	Additional Data	340	140
	41	Additional Data	341	141
	42	Additional Data	342	142
	43	Additional Data	343	143
	44	Additional Data	344	144
	45	Additional Data	345	145
	46	Additional Data	346	146
	47	Additional Data	347	147
	48	Additional Data	348	148
	49	Additional Data	349	149
	50	Additional Data	350	150
	51	Additional Data	351	151
	52	Additional Data	352	152
	53	Additional Data	353	153
	54	Additional Data	354	154
	55	Additional Data	355	155
	56	Additional Data	356	156
	57	Additional Data	357	157
	58	Additional Data	358	158
	59	Additional Data	359	159
	60	Additional Data	360	160

30-05 : DSS Console Lamp Table

Item No.	Item	UX5000 Value	SV8100 Value
21 - Voice Mail Message Indication	Lamp Pattern	Pattern 6 (625ms on, 125ms off, 125ms on, 125ms off) (6)	Pattern 3 (125ms on, 125ms off) (3)

40-10 : Voice Announcement Service Option

Item No.	Item	UX5000 Value	SV8100 Value
01	VRS Fixed Messaging	Checked (1)	Not Checked (0)

45-01 : Voice Mail Integration Options

Item No.	Option	UX5000 Value	SV8100 Value
03	Voice Mail Call Screening	Checked (1)	Not Checked (0)

45-03 : NSL Timer Setup

Item No.	Item	UX5000 Value	SV8100 Value
01	Retry Time	4	0
02	Polling Interval	20	0
03	1LS (Link Start Message) Interval	20	0
04	Wait for 1LS Time	30	0
05	Wait for 2ET Time	60	0
06	Restart LVP Check Interval	30	0
07	Wait for 1LR Time	20	0

47-01 : InMail System Options

Item No.	Item	UX5000 Value	SV8100 Value
02	InMail Master Name	IntraMail ##	InMail ##
14	Maximum Attempts	5	99

47-02 : InMail Station Mailbox Options

Mailbox	Item	UX5000 Value	SV8100 Value
1	02 - Mailbox Extension	301	101

47-02 : InMail Station Mailbox Options

Mailbox	Item	UX5000 Value	SV8100 Value
1	02 - Mailbox Extension 19 - Telephone User Interface Type	301 Mnemonic (1)	101 Numeric (0)
2-64	02 - Mailbox Extension 19 - Telephone User Interface Type	302-364 Mnemonic (1)	102-164 Numeric (0)
65-512	19 - Telephone User Interface Type	Mnemonic (1)	Numeric (0)

47-06 : Group Mailbox Subscriber Options

Group Mailbox	Item	UX5000 Value	SV8100 Value
1-32	17 - Telephone User Interface Type	Mnemonic (1)	Numeric (0)

47-07 : InMail Routing Mailbox Options

Routing Mailbox	Item	UX5000 Value	SV8100 Value
1-32	Telephone User Interface Type	Mnemonic (1)	Numeric (0)

47-10 : InMail Trunk Options

Trunk	Item	UX5000 Value	SV8100 Value
1-200	Telephone User Interface Type	Mnemonic (1)	Numeric (0)

47-13 : InMail Dial Action Table

Dial Action Table	Dial Digit	Item	UX5000 Value	SV8100 Value
1	1	Action	Undefined (0)	Unscreened Transfer (2)
		Destination		XXX
	3	Destination	XXX	XXXX
	4	Action	Unscreened Transfer (2)	Undefined (0)
		Destination	XXX	
	0	Destination	301	101
	Timeout	Destination	301	101

50-02 : Connecting System Settings

CCIS Route ID	Item	UX5000 Value	SV8100 Value
01-09	Common Signaling Channel Data Speed	64kbps (0)	56kbps (1)
	Calling Name Indication	Not Checked (0)	Checked (1)

50-03 : CCIS Destination System Settings

CCIS System ID	Item	UX5000 Value	SV8100 Value
001-255	Point Code Availability	Not Checked (0)	Checked (1)

50-05 : CCIS Maximum Call Forwarding Hop Counter

Item No.	Item	UX5000 Value	SV8100 Value
01	Maximum Hop Count	0	5

50-06 : CCIS Feature Availability

Item No.	Item	UX5000 Value	SV8100 Value
01	Link Reconnect	Not Checked (0)	Checked (1)
02	Centralized Day/Night Switching (for Message Receiver Side)	Not Checked (0)	Checked (1)

50-12 : CCIS Centralized Day/Night Mode to System Mode Assignment

Item No.	Item	UX5000 Value	SV8100 Value
01	Day Mode	0	1
02	Night Mode	0	2

50-13 : CCIS Centralized Response Timeout Assignment

Item No.	Item	UX5000 Value	SV8100 Value
01	IAI Response Time	0	30

50-15 : CCIS over IP Basic Information Setting

Item No.	Item	UX5000 Value	SV8100 Value
02	Server TCP Port	0	57000
03	Client TCP Port	0	59000

50-15 : CCIS over IP Basic Information Setting

Item No.	Item	UX5000 Value	SV8100 Value
04	Connection Method for DT700	Not Checked (0)	Checked (1)

80-01-02 : Service Tone Setup

Service Tone	Unit	Item	UX5000 Value	SV8100 Value
DID Error	2	Basic Tone	Tone 10 (440/ 480Hz, -13/-13dB) (10)	Tone 11 (480/ 620Hz, -13/-13dB) (11)

81-07 : CODEC Filter Setup for Analog Trunk Port

Trunk	Item	UX5000 Value	SV8100 Value
1-200	Codec Filter Type	Type 1 (1)	Type 2 (2)

82-11 : LCA Initial Data Setup

Item No.	Item	UX5000 Value	SV8100 Value
01	Bounce Protect Time	0.0ms (0)	300.0ms (3)
02	Hookflash Start Time	40.0ms (0)	290.0ms (5)
03	Hookflash End Time	HST+0ms (0)	HST+700ms (7)

82-12 : OPX Initial Data Setup

Item No.	Item	UX5000 Value	SV8100 Value
01	Bounce Protect Time	0.0ms (0)	300.0ms (3)
02	Hookflash Start Time	40.0ms (0)	290.0ms (5)

82-12 : OPX Initial Data Setup

Item No.	Item	UX5000 Value	SV8100 Value
03	Hookflash End Time	HST+0ms (0)	HST+700ms (7)

84-11 : Dterm ® IP CODEC Information Basic Setup

		UX5000 Value	SV8100 Value
Type 1-5	**26 - TX Gain**	0.0dBm (20)	-6.0dBm (14)
	27 - RX Gain	0.0dBm (20)	-6.0dBm (14)
	32 - RTP Filter	Not Checked (0)	Checked (1)

84-21 : CCIS over IP CODEC Information Basic Setup

Item No.	Item	UX5000 Value	SV8100 Value
01	G.711 Maximum Audio Frame Size	(0)	30ms (3)
02	G.711 Type	A-law (0)	u-law (1)
04	G.711 Minimum Jitter Buffer Size	0	30
05	G.711 Average Jitter Buffer Size	0	60
06	G.711 Maximum Jitter Buffer Size	0	120
07	G.729 Maximum Audio Frame Size	(0)	30ms (3)
09	G.729 Minimum Jitter Buffer Size	0	30
10	G.729 Average Jitter Buffer Size	0	60
11	G.729 Maximum Jitter Buffer Size	0	120
17	TX Gain	-20.0dBm (0)	0.0dBm (20)
18	RX Gain	-20.0dBm (0)	0.0dBm (20)
20	Audio Capability 2nd Priority	G.711_PT (0)	(1)
22	Jitter Buffer Mode	(0)	Adaptive immediately (3)
23	Voice Activity Detection Threshhold	-19.0dBm (0)	0.3dBm (20)

84-21 : CCIS over IP CODEC Information Basic Setup

Item No.	Item	UX5000 Value	SV8100 Value
24	Echo Canceller Mode	Not Checked (0)	Checked (1)
25	Echo Canceller Non-linear Processing Mode	Not Checked (0)	Checked (1)
26	UDP Checksum Mode	Not Checked (0)	Checked (1)
27	G.722 Maximum Audio Frame Size	(0)	30ms (3)
29	G.722 Minimum Jitter Buffer Size	0	30
30	G.722 Average Jitter Buffer Size	0	60
31	G.722 Maximum Jitter Buffer Size	0	120
32	G.726 Maximum Audio Frame Size	(0)	30ms (3)
34	G.726 Minimum Jitter Buffer Size	0	30
35	G.726 Average Jitter Buffer Size	018	60
36	G.726 Maximum Jitter Buffer Size	0	120
37	iLBC Maximum Audio Frame Size	(0)	30ms (3)
39	iLBC Minimum Jitter Buffer Size	0	30
40	iLBC Average Jitter Buffer Size	0	60
41	iLBC Maximum Jitter Buffer Size	0	120

84-30 : PVA-CCIS over IP CODEC Setup

Item No.	Item	UX5000 Value	SV8100 Value
01	G.711 Maximum Audio Frame Size	(0)	30ms (2)
02	G.711 Type	A-law (0)	u-law (1)
04	G.711 Minimum Jitter Buffer Size	0	30
05	G.711 Average Jitter Buffer Size	0	60
06	G.711 Maximum Jitter Buffer Size	0	120
07	G.729 Maximum Audio Frame Size	(0)	30ms (2)
09	G.729 Minimum Jitter Buffer Size	0	30
10	G.729 Average Jitter Buffer Size	0	60
11	G.729 Maximum Jitter Buffer Size	0	120
12	G.723 Maximum Audio Frame Size	(0)	30ms (1)

84-30 : PVA-CCIS over IP CODEC Setup

Item No.	Item	UX5000 Value	SV8100 Value
14	G.723 Minimum Jitter Buffer Size	0	30
15	G.723 Average Jitter Buffer Size	0	60
16	G.723 Maximum Jitter Buffer Size	0	120
17	TX Gain	-20.0dBm (0)	0.0dBm (20)
18	18 - RX Gain	-20.0dBm (0)	0.0dBm (20)
20	20 - Audio Capability 2nd Priority	G.711_PT (0)	G.723_PT (1)
22	22 - Jitter Buffer Mode	(0)	Adaptive immediately (3)
23	23 - Voice Activity Detection Threshhold	-19.0dBm (0)	0.3dBm (20)
24	24 - Echo Canceller Mode	Not Checked (0)	Checked (1)
25	25 - Echo Canceller Non-linear Processing Mode	Not Checked (0)	Checked (1)
26	26 - UDP Checksum Mode	Not Checked (0)	Checked (1)

90-02 : Programming Password Setup

Account	Item	UX5000 Value	SV8100 Value
2	User Name	UX5000	tech

90-10 : System Alarm Setup

Alarm	Item	UX5000 Value	SV8100 Value
100	Alarm Type	Not set (0)	Major (1)

90-26 : Program Access Level Setup

PRG	Item	UX5000 Value	SV8100 Value
10-31	User Level	SA (System Administrator A) (3)	IN (Installer) (2)

90-26 : Program Access Level Setup

PRG	Item	UX5000 Value	SV8100 Value
80-02	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
80-03	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
80-04	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
80-05	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
81-01	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
81-02	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
81-04	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
81-05	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
82-01	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
82-03	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
82-04	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
82-05	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
82-08	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
83-11	User Level	IN (Installer) (2)	MAN (Manufacturer) (1)
84-04	User Level	MAN (Manufacturer) (1)	IN (Installer) (2)

90-31 : DIM Access over Ethernet

Item No.	Item	UX5000 Value	SV8100 Value
02	User Name	ASPIRE	SV8100

-- NOTES --

APPENDIX J DIM File Download

SECTION 1 OVERVIEW

The DIM File Download feature supports downloading a DIM log file using PCPro. A DIM log file contains operational, system information, and critical information about the system.

✎ *Version 4000 System Software and PC Pro 4.0 or higher is required.*

SECTION 2 OPERATION

Use the following procedure to download a DIM log file using PCPro.

1. From the PCPro toolbar, select **Communications** > **Maintenance** > **DIM File Download**. A DIM File Download dialog box appears, Figure J-2 - DIM File Download Dialog Box.

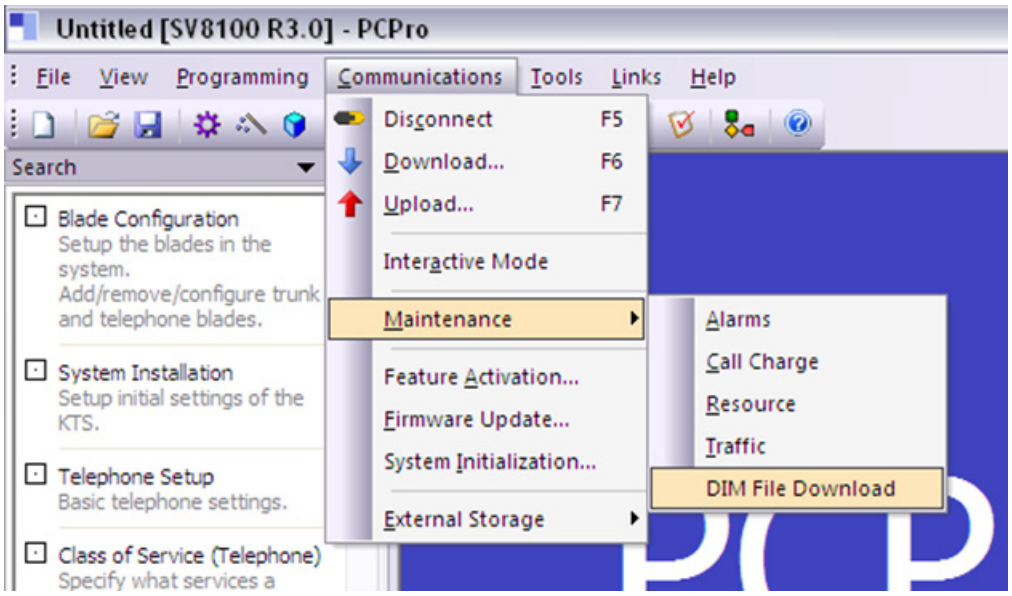


Figure J-1 DIM File Download

✎ *The DIM File Download menu is only available when PCPro is connected to the system.*

When the Download Dialogue runs, PCPro requests file information from "C:\\DATA*.txt"". The Dialog Box displays all existing files with "C:\\DATA*.txt"". .

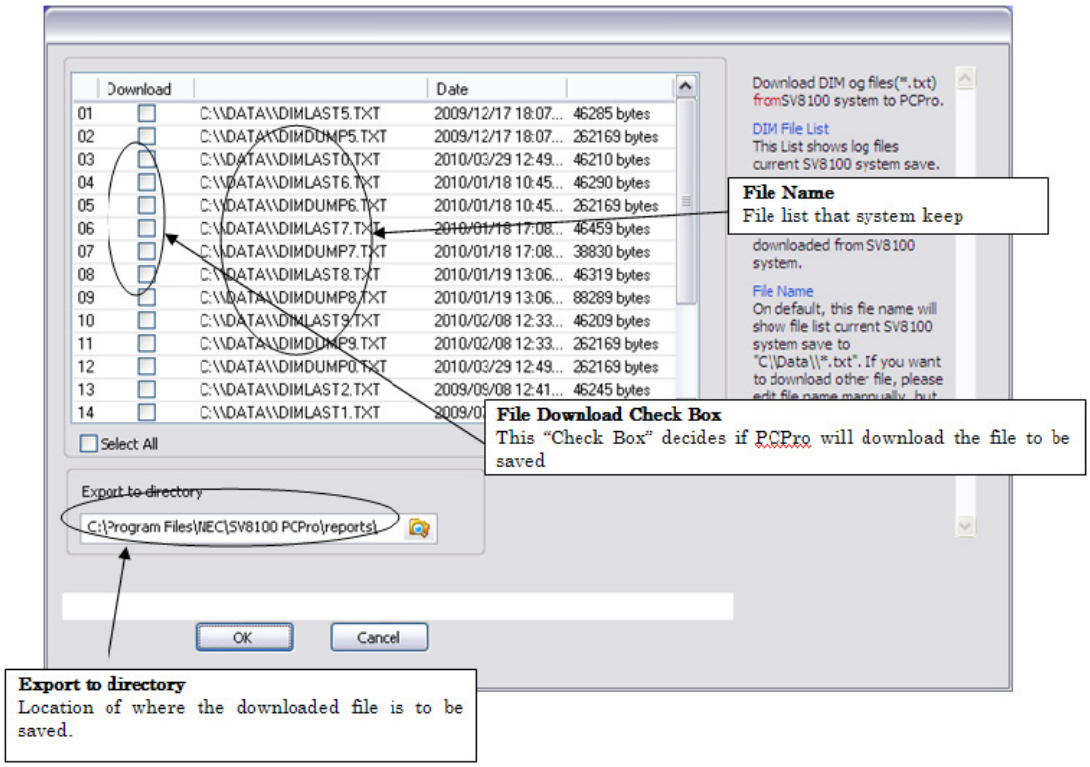


Figure J-2 DIM File Download Dialog Box

2. Check the **Download** box next to the file(s) to download from the system.

3. Click **OK**. PCPro begins downloading the selected file(s) from the system. A status line on the bottom indicates which file is being downloaded at that moment. Refer to Figure J-3 - DIM File Download Status.

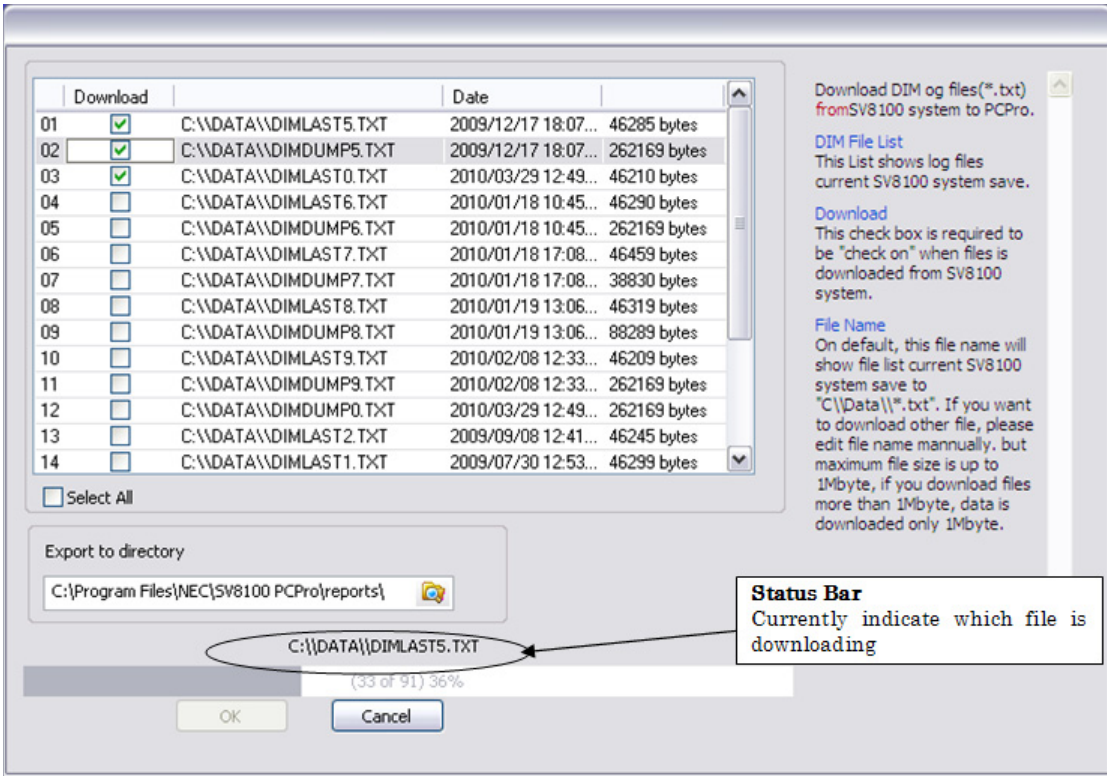


Figure J-3 DIM File Download Status

✎ *Limitation: "The maximum file size that it is available to download with PCPro is 1MB per file. If the file is 1.5MB the first 1MB will download fine but the last 500 KB will not download.*

-- NOTES --

APPENDIX K New IPK/IPKII Migration Support for PCPro

SECTION 1 OVERVIEW

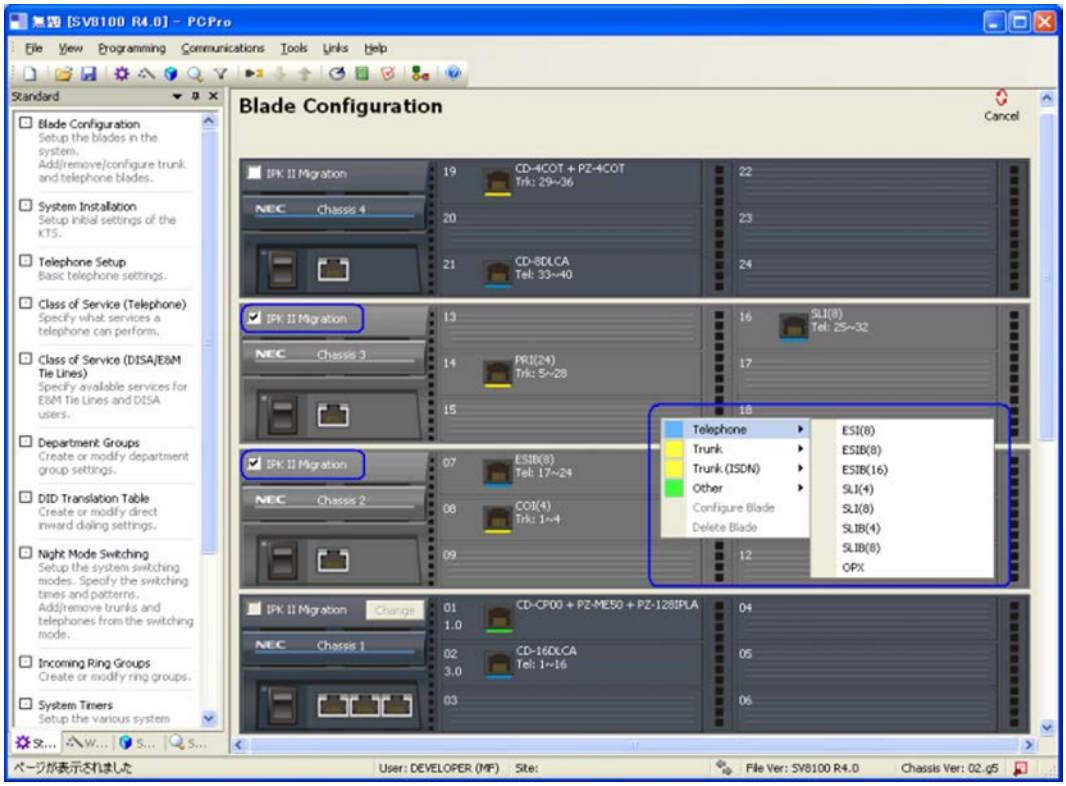


Figure K-1 PCPro Blade Configuration Screen

With R4000 PCPro, individual cabinets can be selected to support IPK/IPKII packages; they must however conform to one of the supported patterns listed in the SV8100 Hardware Manual.

Once a cabinet is selected for IPK/IPKII package support and has a slot populated, if the cabinet is to be changed back to SV8100 package support, the following message will appear.

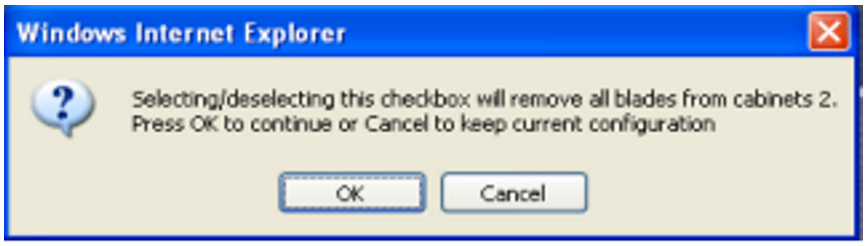


Figure K-2 Blade Removal Screen

If using Version 3000 or lower System Software, the cabinet can only be configured as shown below.

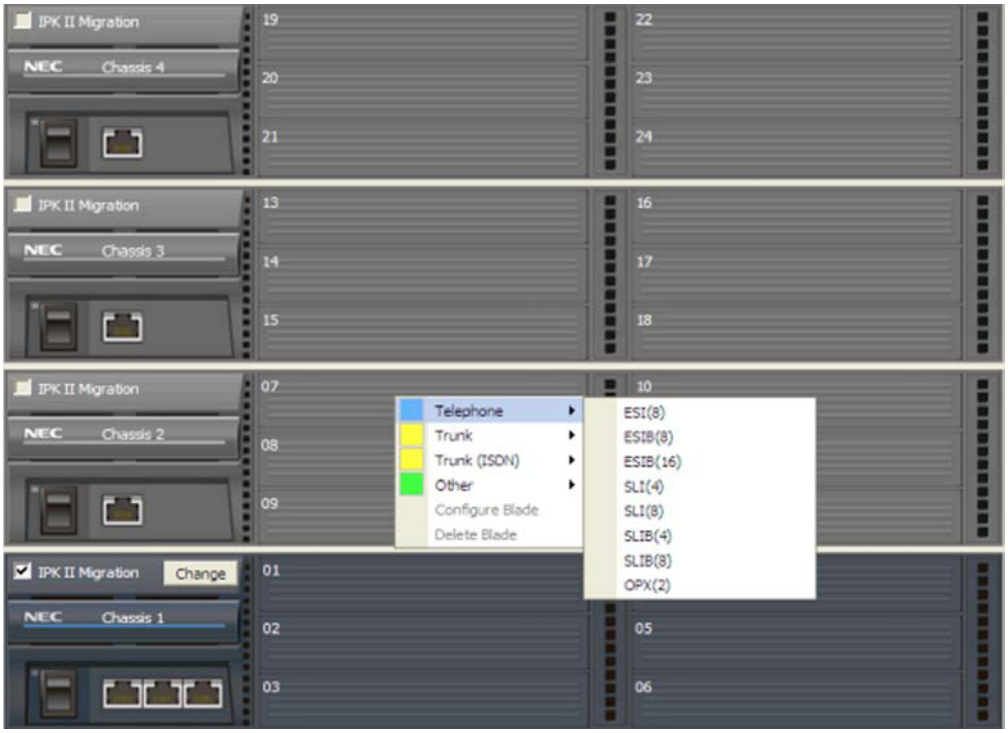


Figure K-3 Version 3000 System Software Cabinet Configuration

In this case, when selecting the IPKII Migration check box on the 1st cabinet, PCPro automatically assigns cabinets 2~4 as IPK/IPKII package support.

PCPro also will not allow a user to upload a database configuration that is not supported by the current software.

If changing from Version 3000 System support to Version 4000 System support, and the “Change” button is selected, PCPro will ask the following.

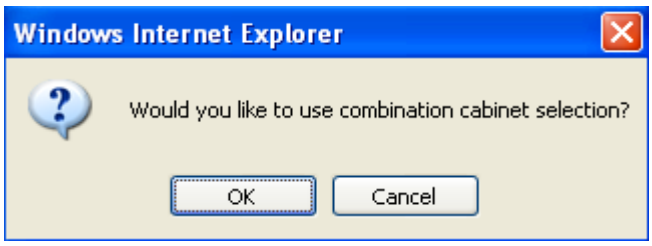


Figure K-4 Combination Cabinet Selection Screen

This enables the combination cabinet selection view for Version 4000 System support, if change is selected again, PCPro will ask the following.

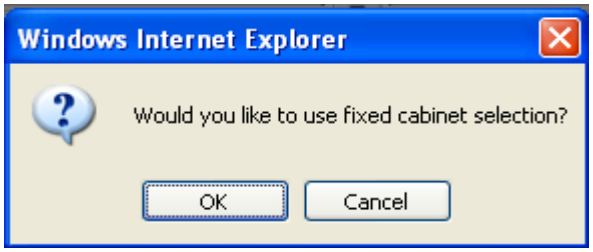


Figure K-5 Fixed Cabinet Selection Screen

This enables the Fixed (Version 3000 or lower) cabinet selection view.

-- NOTES --

APPENDIX L *Maintenance Features*

SECTION 1 OVERVIEW

This feature requires V8000 or higher software, also V8000 Enhancement License (0037) and Maintenance License (0043).

The following four features are supported:

- ❑ SRAM Information via Web / PC Pro.
- ❑ System Alarm display via Web Pro.
- ❑ T1/ISDN layer status display via Web / PC Pro.
- ❑ USB Backup via Web Pro.

SECTION 2 OPERATION

2.1 SRAM Information via Web Pro/PCPro

The following data is saved in internal SRAM and can be checked via Web/PC Pro. These are listed in PRG 93-xx. These programs are Read-Only, and cannot be accessed via User Pro.

The following user level can access the function:

1 = MF (Manufacturer Level)

2 = IN (Installer Level)

3 = SA (System Administrator Level 1)

Table L-1 Program Table

Program No.	Name	Input Data (Read Only)
93-01-01	Day/Night Mode Indicates current day/night mode per night mode service group.	1 = Mode 1 2 = Mode 2 3 = Mode 3 4 = Mode 4 5 = Mode 5 6 = Mode 6 7 = Mode 7 8 = Mode 8
93-02-01	Automatic Transfer to Transfer Indicates Automatic Trunk Transfer setting status.	0 = Disable 1 = Enable
93-02-02	Trunk Port Disable by Service Code Indicates the Trunk Port Disable (Busy Out) status.	0 = Disable 1 = Enable
93-03-01	Call Forward - All/No Answer/Both Ring Indicates Call Forward -All/No Answer/Both Ring setting status per extension.	0: = Call Forwarding off 1 = Call Forwarding with Both Ringing 2 = Call Forwarding when No Answer 3 = Call Forwarding All Call
93-03-02	Call Forwarding Destination for Both Ring, All Call, No Answer Indicates Call Forward-All/No Answer/BothRing destination number set per extension	0-9, *, #, P, R,@ (Up to 24 digits)
93-03-03	Call Forward-Busy Indicates Call Forward-Busy setting status per extension.	0:Call Forward-Off 1:Call Forward-Busy or No Answer 2:Call Forward-Busy
93-03-04	Call Forwarding Busy Destination. Indicates Call Forward-Busy destination number set per extension.	0-9, *, #, P, R,@ (Up to 24 digits)
93-03-05	Call Forwarding – Follow-Me Indicates Call Forward-Follow-Me setting status per extension.	Extension Number (Up to 8 digits)

Table L-1 Program Table

Program No.	Name	Input Data (Read Only)
93-03-06	Call Forwarding Follow-Me Destination. Indicates Call forwarding follow-me extension number set per extension.	0 = Disable 1 = Enable
93-03-07	Do Not Disturb Indicates DND setting status per extension.	0 = No setting 1 = DND External 2 = DND Intercom 3 = DND Transfer 4 = DND All
93-03-08	Message Waiting (Set) Indicates extension number which you set Message Waiting.	Extension Number (Up to 8 digits)
93-03-09	Message Waiting (Receive) Indicates extension number when left Message Waiting	Extension Number (Up to 8 digits)
93-03-10	Alarm Clock 1 Indicates Alarm Clock 1 setting status.	0 = Disable 1 = Enable
93-03-11	Preset time at Alarm 1 Indicates the time set in Alarm Clock 1.	Time set in Alarm Clock 1. When PRG 93-03-10 is "0", [00:00] is indicated.
93-03-12	Alarm Clock 2 Read only. Indicates Alarm Clock 2 setting status.	0 = Disable 1 = Enable
93-03-13	Preset Time at Alarm 2 Indicates the time set in Alarm Clock 2.	Time set in Alarm Clock 2. When PRG 93-03-12 is "0", [00:00] is indicated.
93-03-14	Forced Intercom Ring (ICM Call Type) Indicates ICM Call Type per extension.	0 = Disable(Voice) 1 = Enable(Signal)
93-03-15	BGM Indicates BGM setting status per extension.	0 = Disable 1 = Enable
93-03-16	Key Touch Tone Indicates Key Touch Tone setting status per extension.	0 = Disable 1 = Enable

Table L-1 Program Table

Program No.	Name	Input Data (Read Only)
93-03-17	Dial Block Indicates Dial Block setting status per extension.	0 = Disable 1 = Enable
93-03-18	Repeat Dial Indicates Repeat Dial setting status per extension.	0 = Disable 1 = Enable
93-03-19	Headset Mode Switching Indicates Headset Mode Switching setting status per extension.	0 = Disable 1 = Enable
93-03-20	Headset Ringing Mode Switching Indicates Headset Ringing Mode Switching setting status per extension	0 = Disable 1 = Enable
93-04-01	Redial Data Indicates the number stored in Outgoing call history.	Dial Data : 1~9, 0, *, #, P,R,@ (Up to 24 digits)
93-04-02	Name Indicates the name stored in Outgoing call history.	Up to 12 characters
93-05-01	Set Automatic transfer at Department Group Call Indicates Automatic transfer setting status per Department Group.	0 = Disable 1 = Enable
93-05-02	Set Delayed Transfer at Department Group Call Indicates Delayed transfer setting status per Department Group.	0 = Disable 1 = Enable
93-05-03	Set Delayed Transfer at Department Group Call Indicates Delayed transfer setting status per Department Group.	0 = Disable 1 = Enable

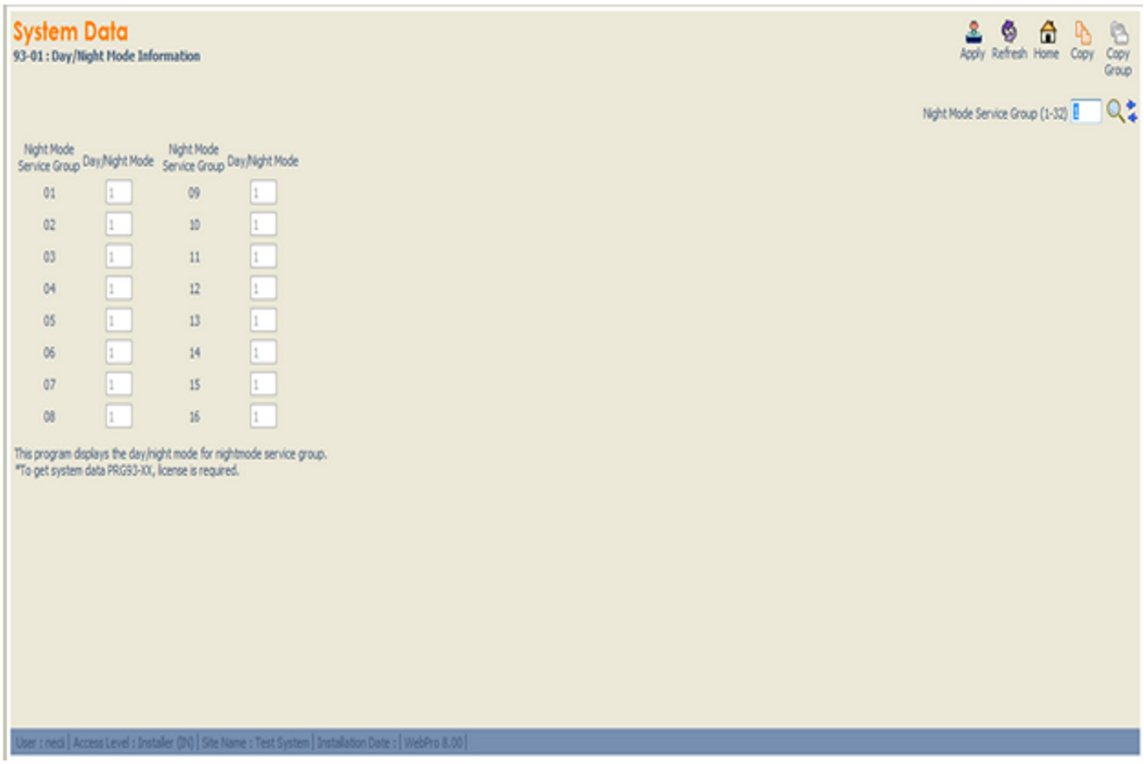


Figure L-1 Example of Program 93-01

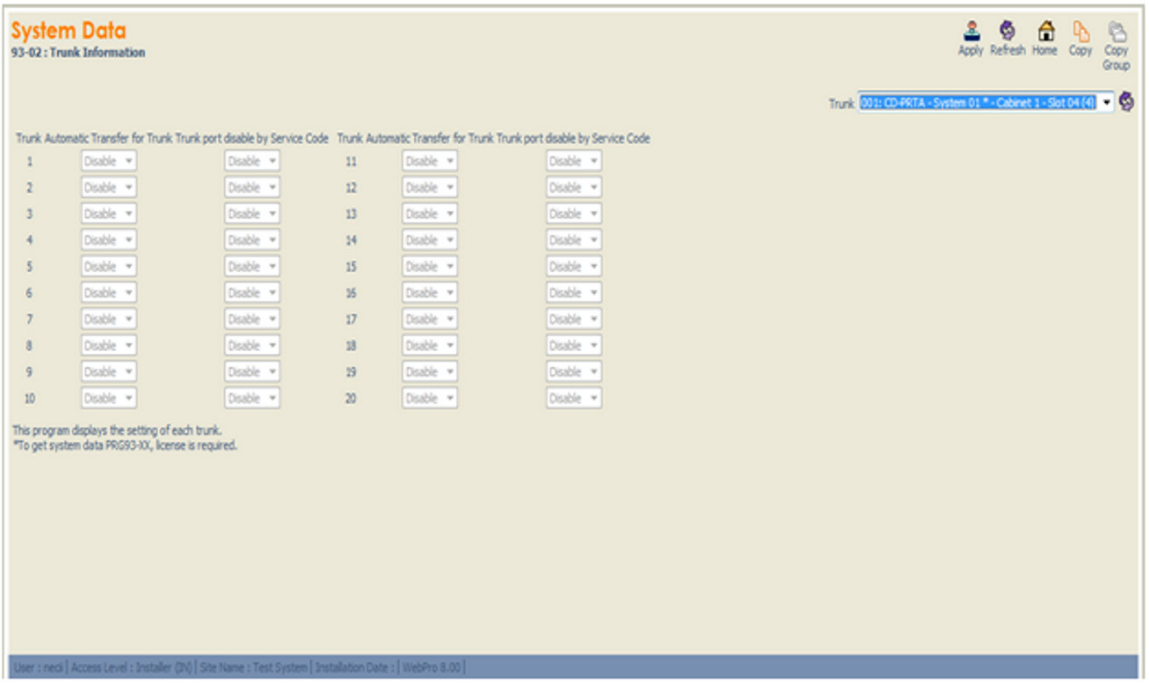


Figure L-2 Example of Program 93-02

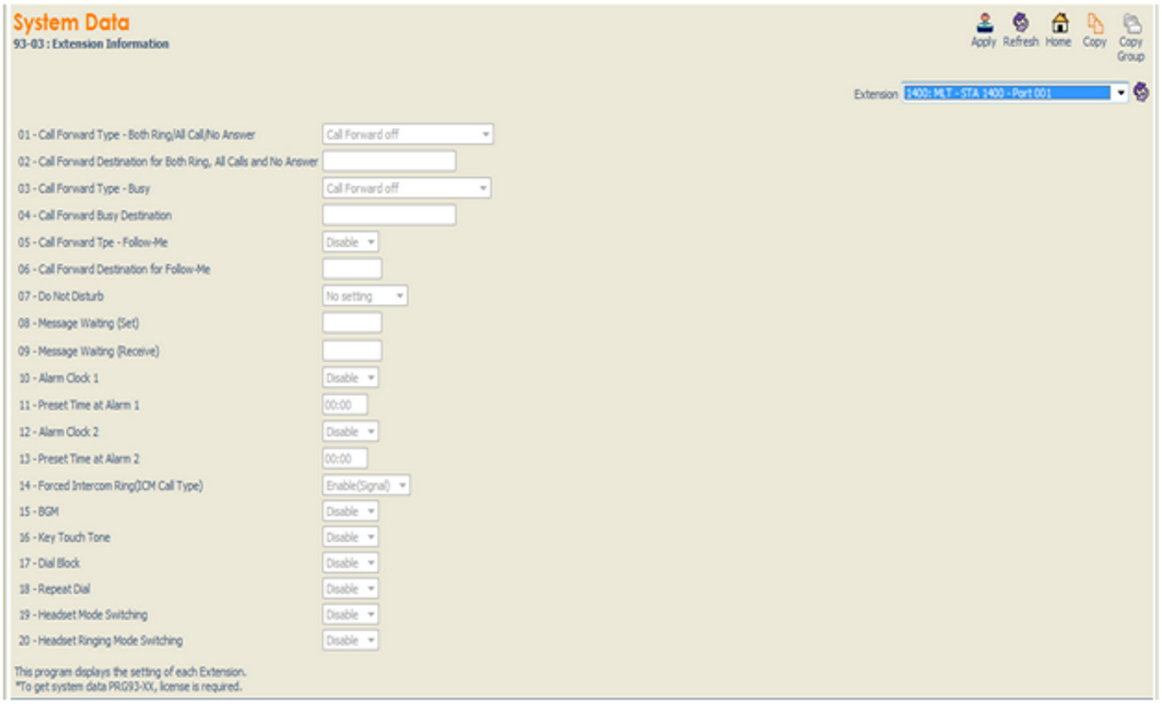


Figure L-3 Example of Program 93-03

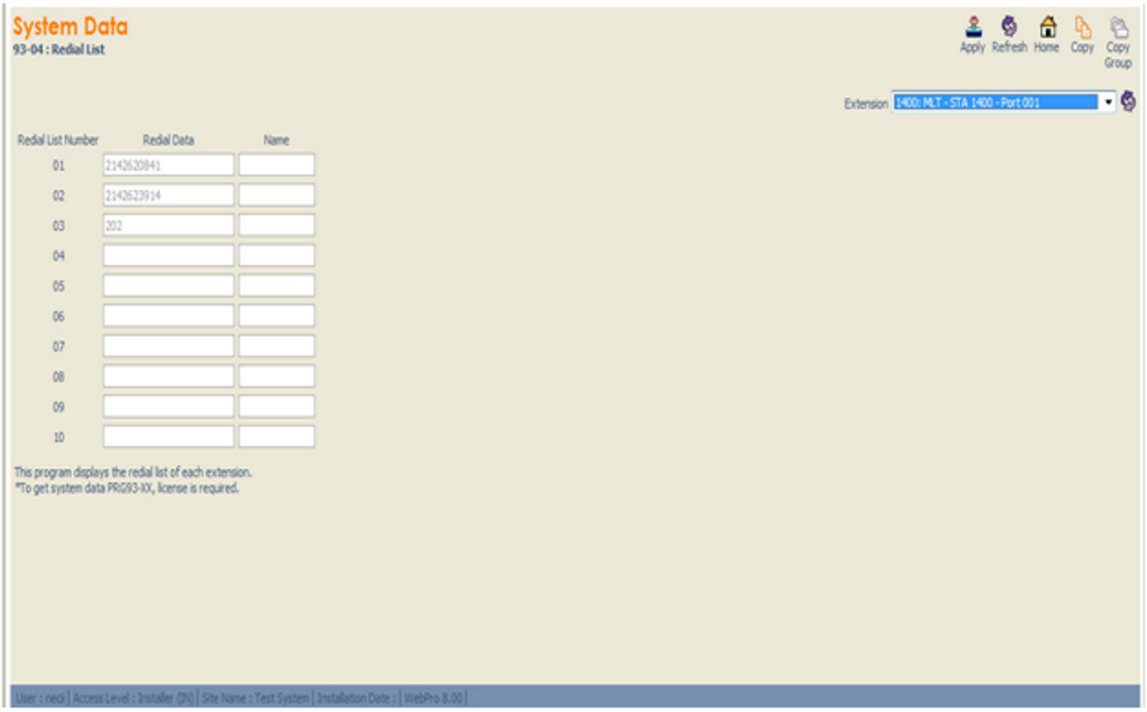


Figure L-4 Example of Program 93-04

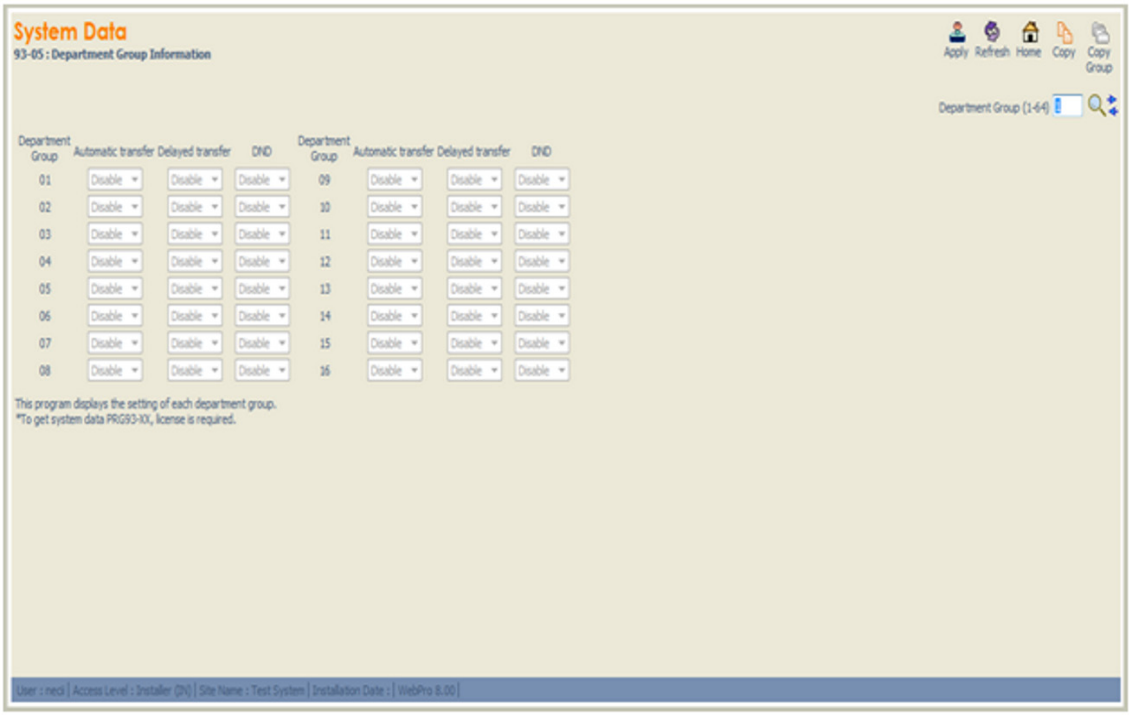


Figure L-5 Example of Program 93-05

2.2 System Alarm display via WebPro

The system alarm can be checked via WebPro. By clicking the System Alarm icon at the home screen of WebPro, up to 100 alarm reports can be monitored. WebPro does not support an alarm report output.

The following user level can access the function:

1 = MF (Manufacturer Level)

2 = IN (Installer Level)

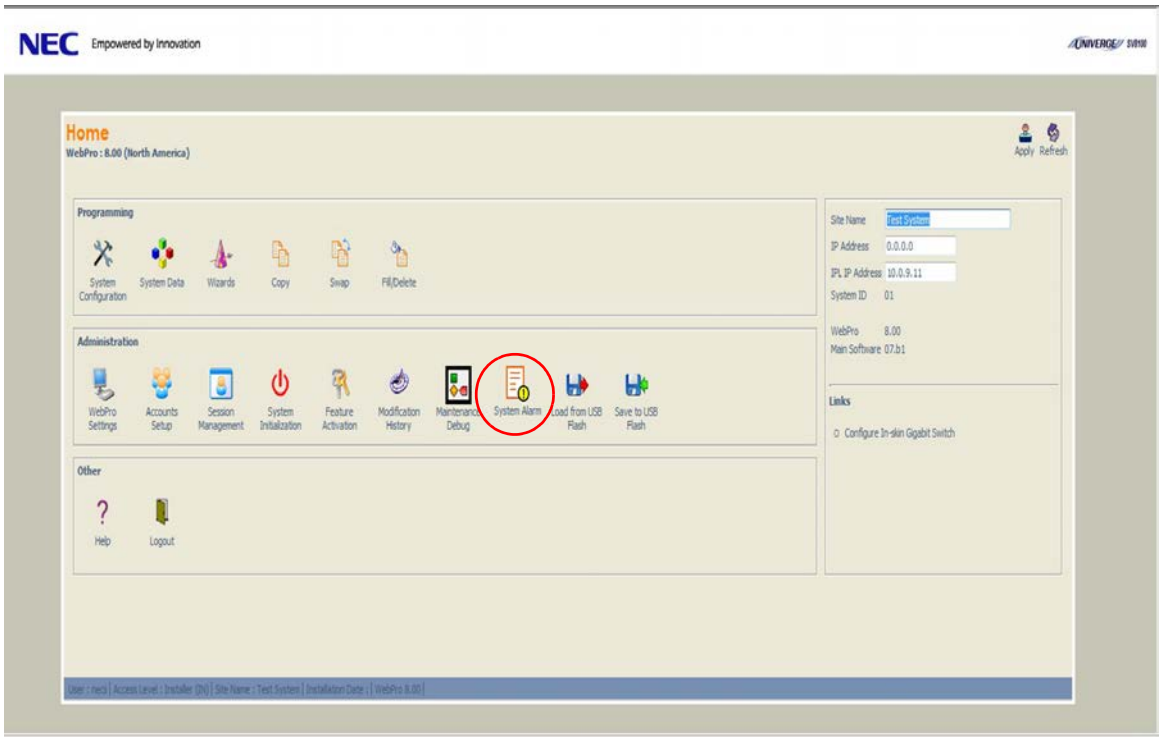


Figure L-6 Example of WebPro Home Screen

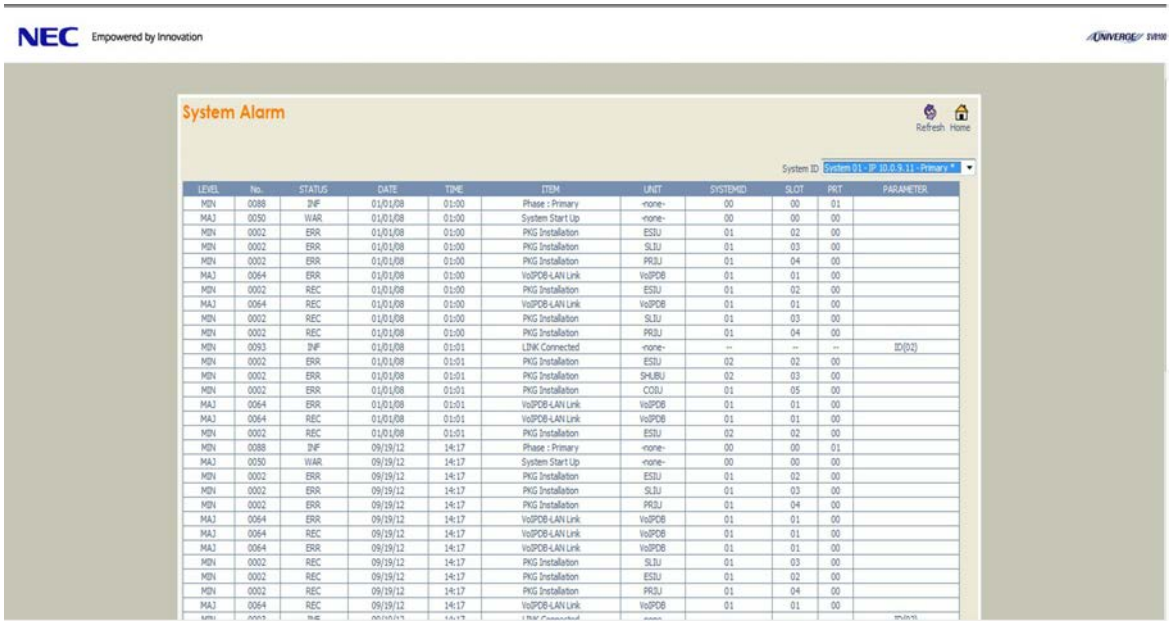


Figure L-7 System Alarm Screen

2.3 T1/ISDN Layer Status Display via WebPro

WebPro can monitor T1 / ISDN link status saved in PRG90-60 (T1/ISDN Layer Status Information).

This program displays layer status information for T1/PRI/BRI packages.

- =No link

0 = Link

N/A = except BRI or PRI card is mounted.

The following user level can access the function:

1 = MF (Manufacturer Level)

2 = IN (Installer Level)

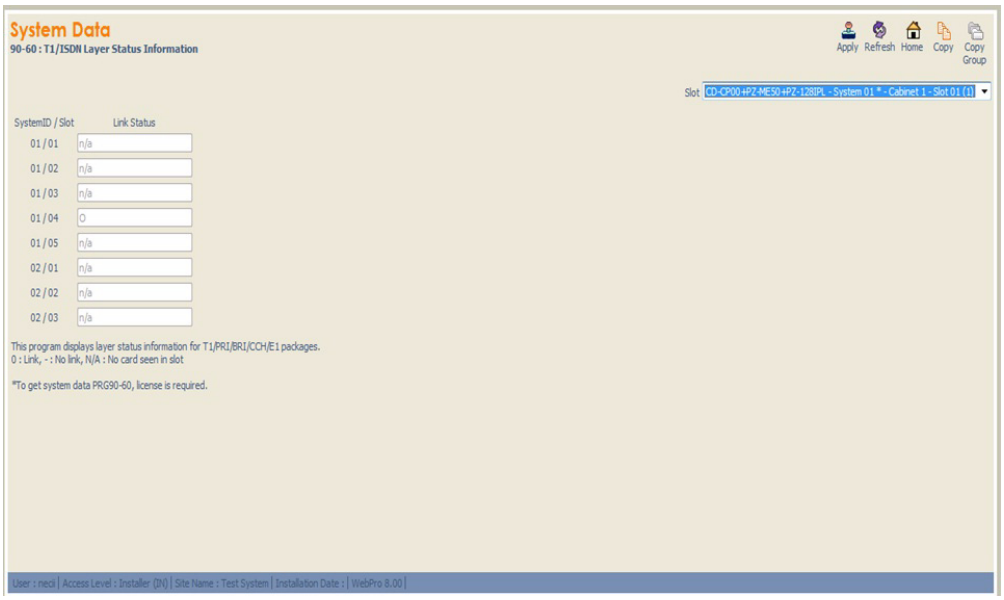


Figure L-8 90-60: T1/ISDN Layer Status Information

2.4 USB Backup via WebPro

USB backup can save the SRAM data or programmed data to a USB drive using WebPro. An alarm report can be also saved together at the time of USB saving execution.

System data can also be uploaded from the USB drive to the CPU card using WebPro.

The following user level can access the function:

1 = MF (Manufacturer Level)

2 = IN (Installer Level)

3 = SA (System Administrator Level 1)

Operation:

1. The following home screen is displayed. Click on the "**Save to USB Flash**" icon.

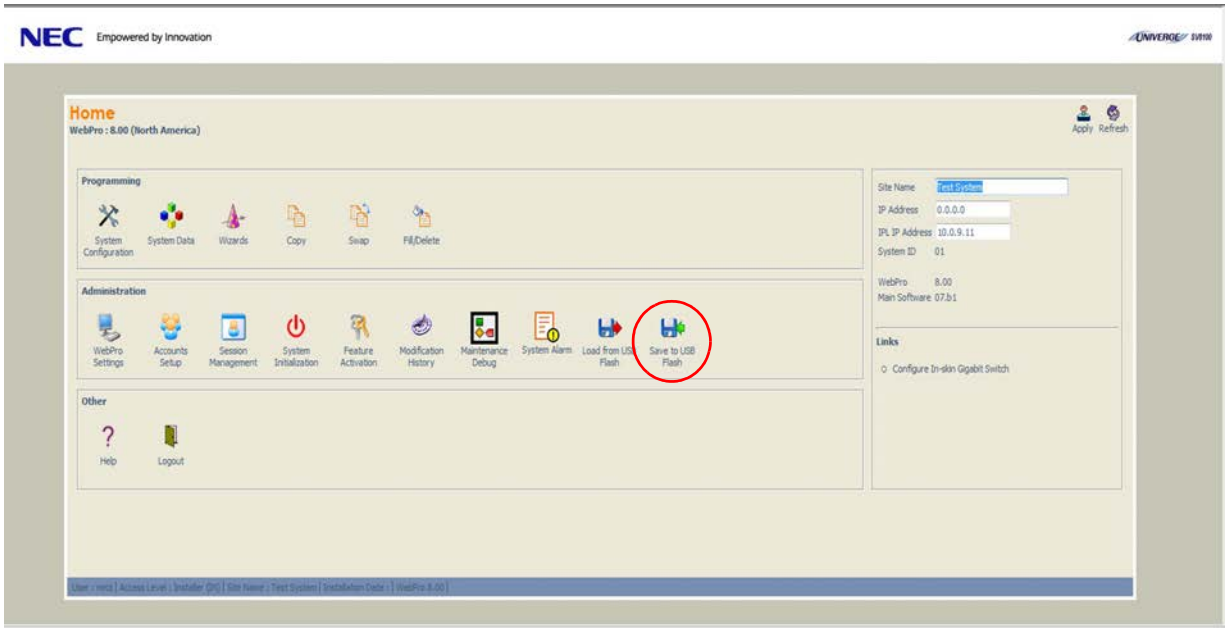


Figure L-9 Save to USB Flash

2. The USB Save screen is displayed. Click the **"Start Save"** button.

   ☞ If the USB drive is not installed in CPU, an error is displayed.

Figure L-10 Start Save Screen

3. The following popup window is displayed. Click the **"OK"** button.

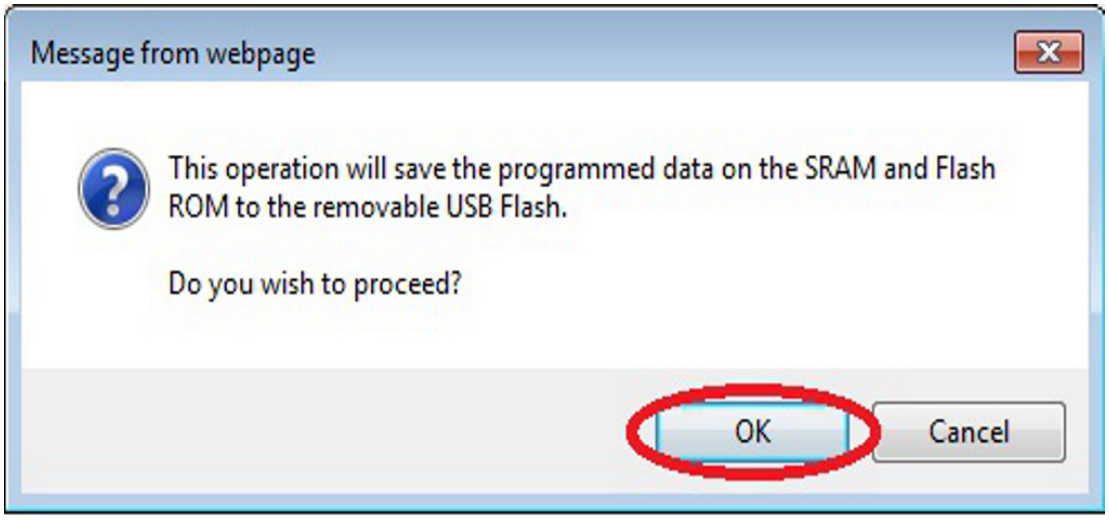


Figure L-11 Proceed with Saving Data Screen

4. The following screen is displayed, and data is saved to the USB Flash Drive.

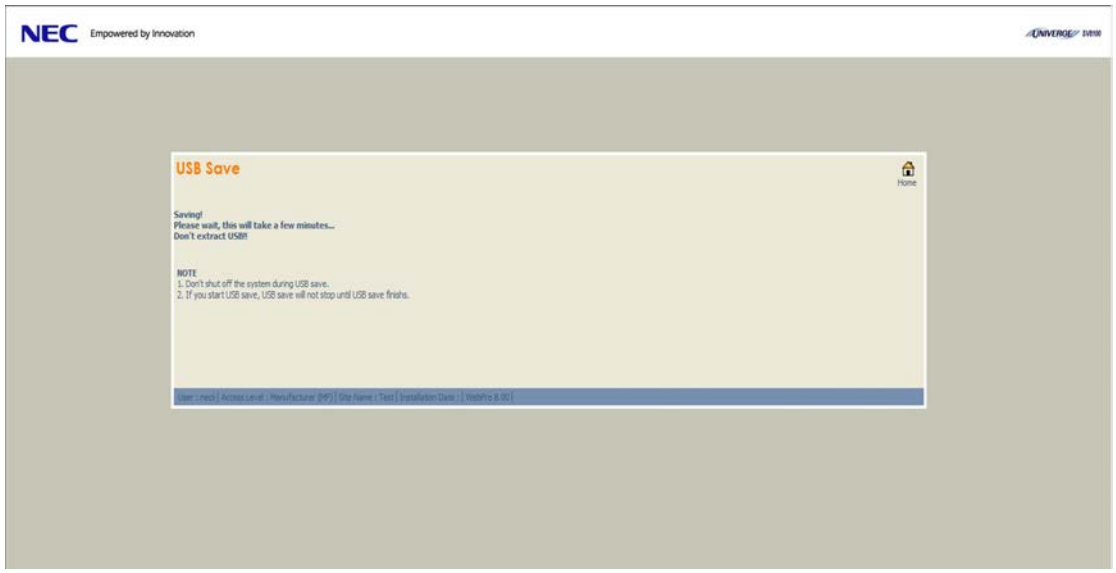


Figure L-12 Saving to USB Flash Drive

5. The following screen is displayed when data saving is completed.

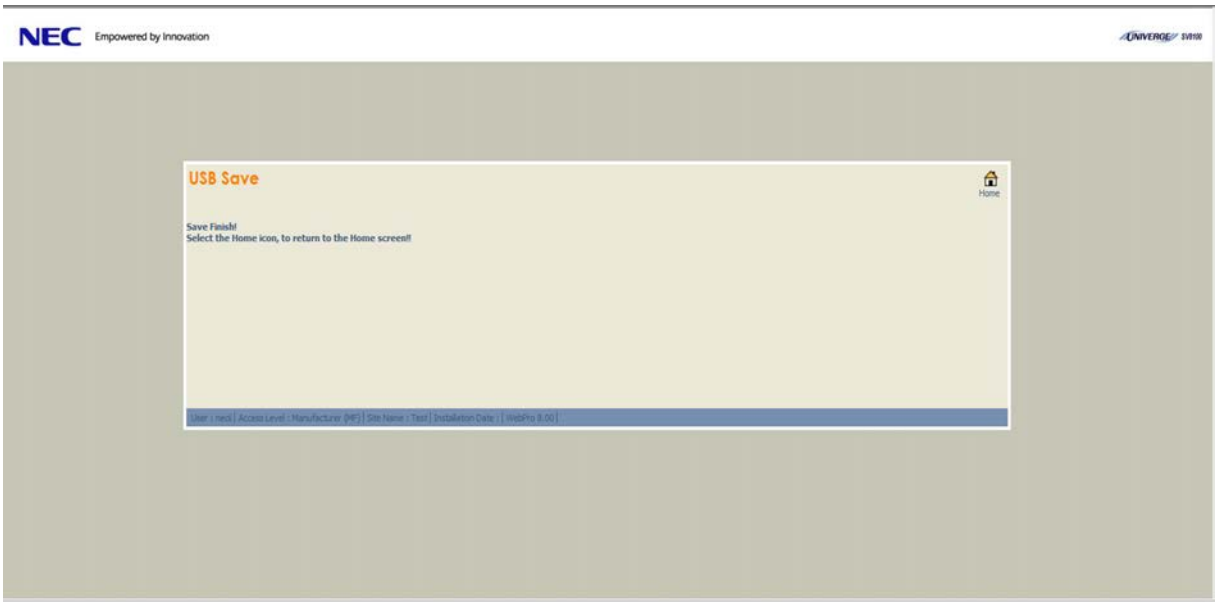


Figure L-13 Save Finished Screen

Conditions:

- To perform a USB save, 32 MB of availability is required for a USB flash device.
- When moving to Save/Load screen, an error message will be shown if USB device is not connected.
- After USB backup starts, it cannot be interrupted.
- After USB load finishes, a system reset is needed to activate the loaded data.

APPENDIX M Web Pro Load/Save to PC Feature

SECTION 1 OVERVIEW

With Version 9000 or higher software, WebPro supports Load/Save feature of the PCPro database (configuration) file and Remote System Upgrade.

SECTION 2 OPERATION

2.1 WebPro Load/Save PCPro Configuration File

With Version 9000 or higher software, 'Load from PC (=Upload)' and 'Save to PC (=Download)' icons are added on the Administration area of the WebPro Home Page screen.

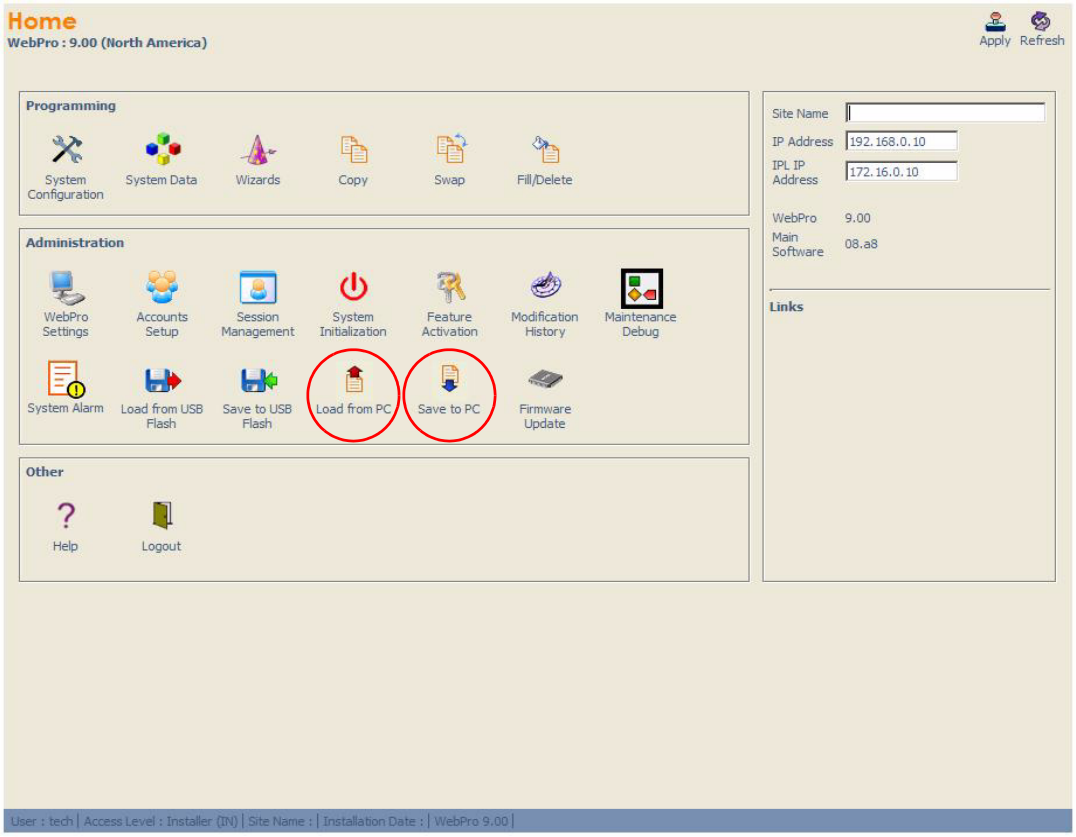


Figure M-1 Load and Save Icons

2.2 Load from PC

1. Click the ‘Load from PC’ icon, and the following pop up screen is displayed.

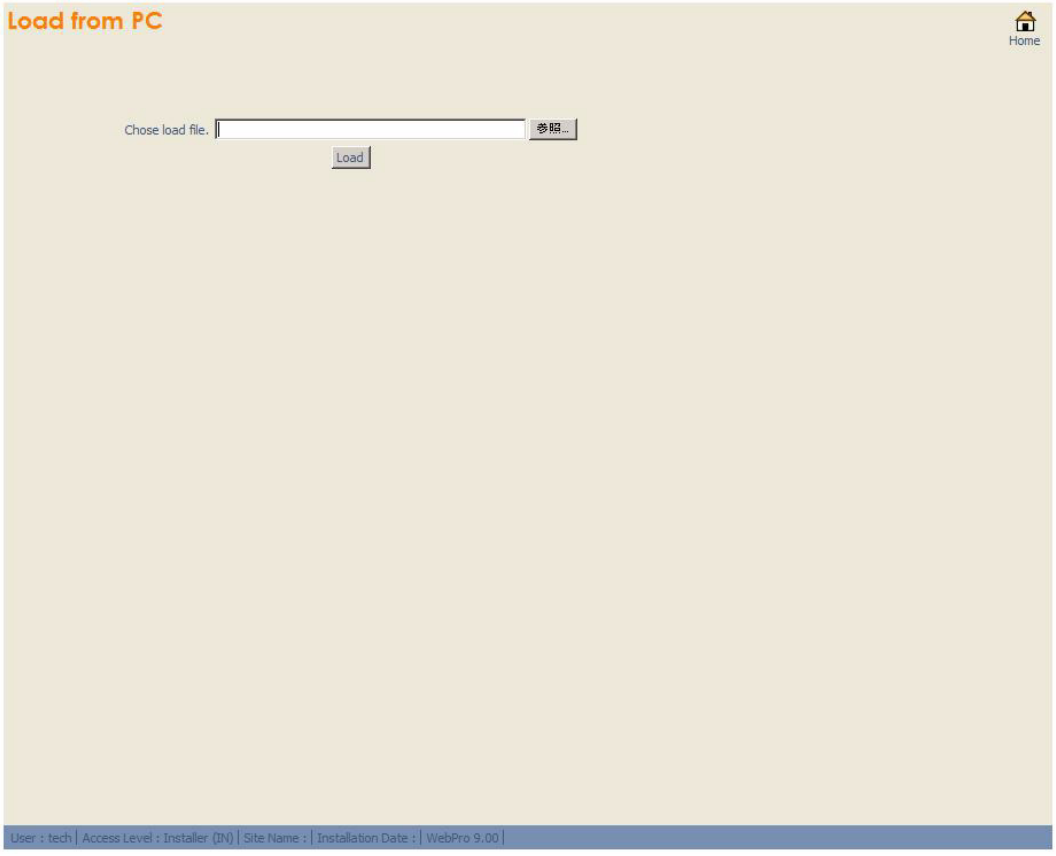


Figure M-2 Load from PC Screen

2. Select the PCPro configuration file. The configuration file has to be decompressed by gzip format (.gz) before upload.

3. Click the ‘Load’ button that starts the configuration file upload.

4. After uploading is completed, ‘Load completed’ is displayed and the system reboots automatically.

2.3 Save to PC

1. Click the ‘Save to PC’ icon and the following pop up screen is displayed.

Figure M-3 Save to PC Screen

2. Click the ‘Save’ button that starts decompressed configuration file download.

3. When saving is completed, ‘Save completed’ is displayed.

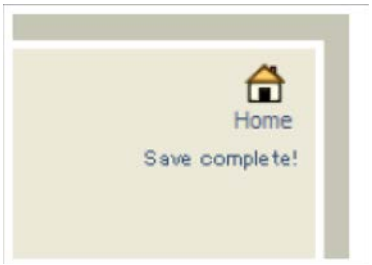


Figure M-4 Save Completed Screen

4. Then click save (S) and enter the location of the local PC folder to save.

SECTION 3 CONDITIONS

- With Version 9000 or higher software, WebPro supports Load/Save of Database
- WebPro Load/Save feature requires,

  - PZ-ME50-US installed in the system.

  - The configuration file has to be decompressed by gzip format (.gz) before upload.

  - User level (PRG90-02-03) has to be 3 = SA (System Administrator Level 1) or higher.

- During loading or saving the configuration file, no other user can log in the system through PCPro, WebPro, or Phone Programming. On the other hand when someone is logging in the system, this feature does not work.
- The upload configuration file to Version 9000 system has to be version 8 or 9. Other higher or lower versions can not be uploaded.

Caution: After completing the upload, the system reboots automatically, even trunk lines and extensions that are on call. So WebPro Upload should be performed when the system is not in use.

UNIVERGE® SV8100

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