

Secure92 for Windows

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Introduction

What is Secure92?

Secure92 provides full emulation of the Hewlett Packard HP 700/92, HP700/94, HP2392, HP2622 terminals on PCs running the Microsoft Windows Operating System. In addition, Secure92 provides DEC (Digital) V220 terminal emulation.

Features

Secure92 includes the following features:

- Hewlett Packard terminal emulation including character mode and block mode application support
- User or application configurable rows and columns
- SSH (Secure Shell), NS/VT, Telnet, NS/VT over SSH, TAPI, and serial connectivity
- Scripting (TermTalk)
- Keyboard remapping
- Serial and network file transfer

Installation

Full versions of Secure92 may be downloaded from the Minisoft website (www.minisoft.com). A password is required to install versions downloaded from the website. Please contact the Minisoft sales department for passwords (sales@minisoft.com or (800) 682-0200). Secure92 is also available on CD.

To install Secure92, click on RUN and then specify the Microsoft Installer based MSI filename. Currently this file is called Secure92(1.2.1.1)D.exe. The install program will prompt you for where on your PC you want Secure92 installed.

Menu Options

File Menu

Script

Secure92 uses the TermTalk scripting language. The complete TermTalk manual may be downloaded from the Minisoft website in .PDF format (www.minisoft.com). See *Chapter 2: Building TermTalk Scripts* of this manual for a more detailed discussion of the TermTalk scripting language.

Do Script

Runs a previously saved script.

Pause Script

Pauses a running script file.

Do Command

Runs a previously saved command file.

Record Script

Automatically record a script by “capturing” or “storing” the keystrokes you use to perform a sequence of commands. The keystrokes are recorded and stored in a script file.

Pause Recording

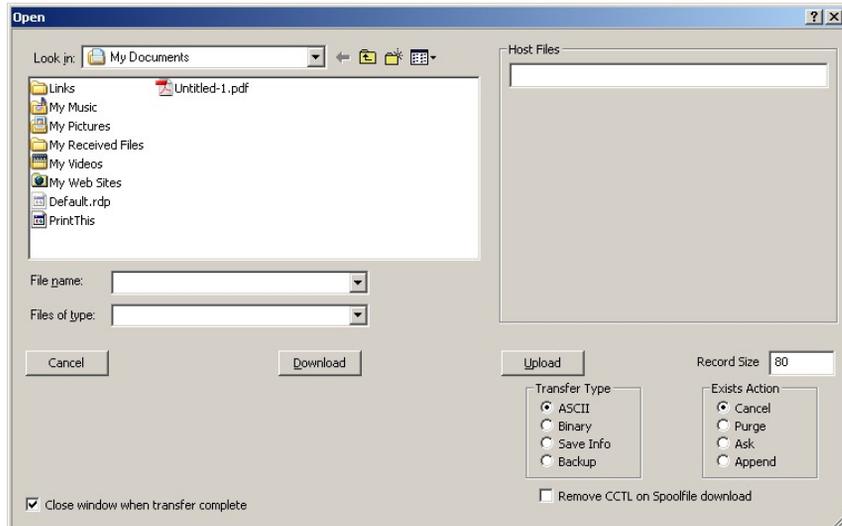
Pauses the recording of a script.

Show Script Window

Launches the MS92 Script Editor.

File Transfer

File Transfer allows you upload and download files to and from your host system.



Options available:

Transfer Type

ASCII

Transfer as a character-based file.

Binary

Transfers a binary image of the file being transferred, no CRLF will be added to the PC file.

Save Info

Saves the file information in the first 128 bytes of the destination file. This option is useful if you are transferring a file from one host to another via a PC. If you save file information, then the file on the destination host will have the same file attributes (record size, block size, etc.) as the original file. Some emulators refer to this as label file transfer.

Remove CCTL on Spoolfile download

Removes all carriage controls from downloadable spoolfile.

Exists Actions

If a file with the same name as the file being transferred already exists on the receiving computer, you have the following options:

Cancel

Cancels the transfer of the file.

Purge

Purges the existing file and then overwrites the existing file with the contents of the file being transferred.

Ask

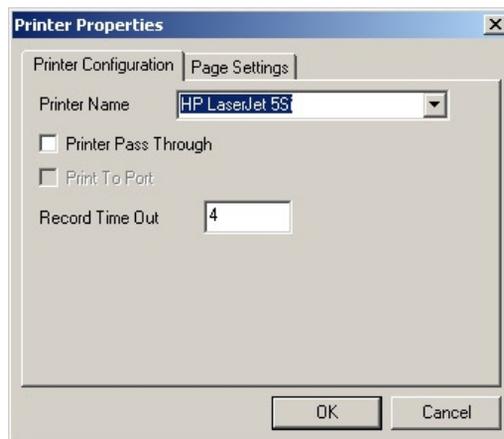
Prompts for action.

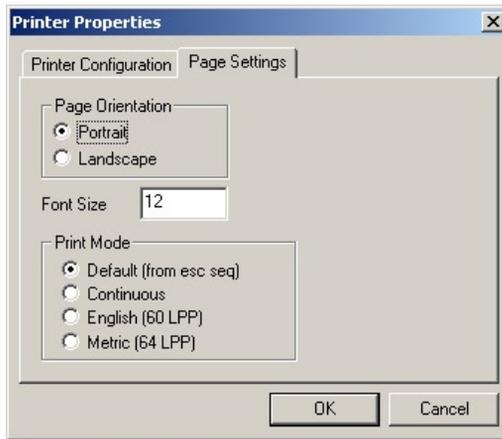
Append

Appends the contents of the file being transferred to the end of the existing file.

Page Setup

Page Setup allows you to specify your default printer, page orientation, and default font size for printing.





Print Screen Copy

Print Screen Copy prints the contents of your visible screen contents.

Quit

Exits Secure92.

Edit Menu

Cut

Cuts the selected text from the display screen.

Copy

Copies selected text to the clipboard.

Paste

Pastes the copied/cut selected text from clipboard.

Clear

Clears text from the current screen.

Copy Table

Copies selected data in table format. Microsoft Excel compatible.

Copy Window Image

Copies window into memory.

Copy All Display Memory

Copies all text on display and in display memory to the clipboard.

Copy All From Cursor

Copies all text selected by cursor to clipboard.

Clear Display

Clears the display screen.

Config Menu

Open...

Allows you to open a previously saved configuration file.

Save

Saves configuration file changes to your default configuration file.

Save As...

Allows you to save changes to a new configuration file name.

Revert to Saved

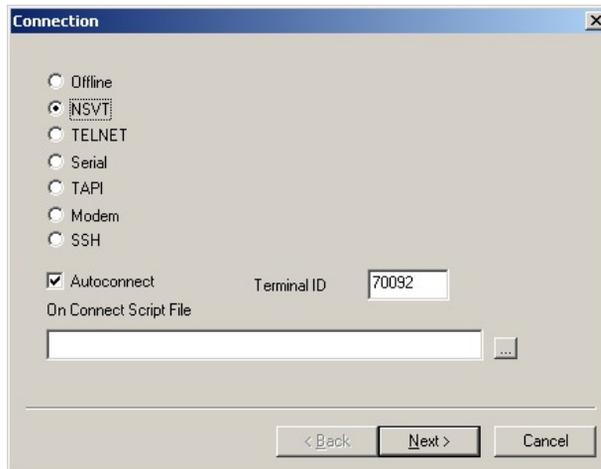
Reverts to the last saved change to the configuration file.

Save On Exit

Checked indicates configuration file changes will be saved on exit from Secure92.

Connection Options

The Connection dialog box allows you to configure one of the following connection types and set options for startup:



Autoconnect

Check the AutoConnect box if you wish Secure92 to attempt a connection right after completing program startup.

Terminal ID

Default value in this field is 70092. Allows you to enter the ID number of the terminal you are emulating.

The 2392A and 700/9x are more recent HP terminals, which certain HP application software may not recognize. You may change the Terminal ID by typing: 2624A or 2622A. This will not change the emulation features of Secure92 but will allow the HP host software to recognize the terminal.

On Connect Script File

Allows you to select a script file to be used at startup.

Offline

Waits for action, when an action is prompted the OFFLINE dialog box appears giving you the options to Retry, Configure, Load or Exit.

NSVT

NSVT (Network Services Virtual Terminal) is a proprietary network protocol for the HPe3000. Selecting this option allows for an NSVT connection to an HPe3000.

Once selected, select *Next* to configure your host IP addresses:

The screenshot shows a dialog box titled "NSVT" with a close button in the top right corner. The dialog contains the following fields and controls:

- Host Address:** Text box containing "192.168.23.526".
- Port:** Text box containing "1570".
- Local Host Name:** Text box, currently empty.
- Enable SSH Tunnel:** A checkbox that is currently unchecked.
- SSH Host Address:** Text box, currently empty.
- SSH Host Port:** Text box containing "22".
- SSH Local Port:** Text box containing "12344".
- SSH Host Username:** Text box, currently empty.
- SSH Host Password:** Text box, currently empty.

At the bottom of the dialog, there are three buttons: "< Back", "Finish", and "Cancel".

Host Address: IP address of the host you are trying to connect too.

Port: Default port 1570.

Local Host Name: Host system name, if needed, but not required.

Enable SSH Tunnel: Default unchecked. Check if you would like to enable a Secure Shell connection.

SSH Host Address: IP Address of the host system running the Secure Shell Daemon.

SSH Host Port: Default 22.

SSH LocalPort: Default 12344.

SSH Host UserName: Configured Secure Shell user name. You will be prompted for the SSH Host username and password if these fields are left blank.

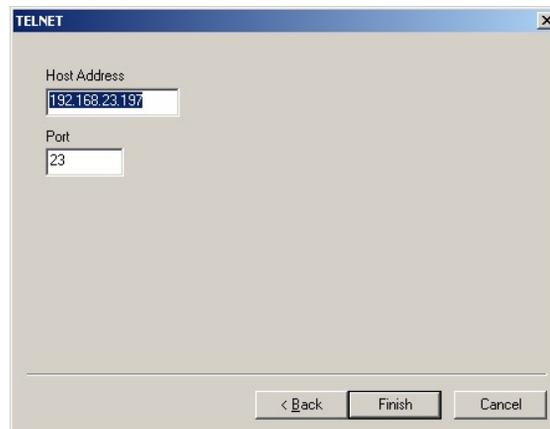
SSH Host Password: Configured Secure Shell password associated with the user name. You will be prompted for the SSH Host username and password if these fields are left blank.

TELNET

An Internet protocol, used in conjunction with TCP/IP, that allows a computer to act as a terminal on a network. Select *Next* to configure your Host IP Address and Port.

Host Address: IP address of the host you are trying to connect too.

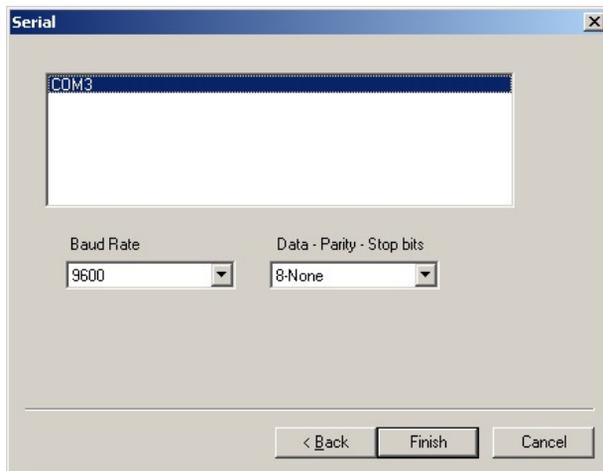
Port: Default port 23.



The image shows a Windows-style dialog box titled "TELNET". It has a blue title bar with a close button (X) on the right. The main area is light gray and contains two text input fields. The first field is labeled "Host Address" and contains the text "192.168.23.197". The second field is labeled "Port" and contains the text "23". At the bottom of the dialog, there are three buttons: "< Back", "Finish", and "Cancel".

Serial

Makes a modem, direct, or MUX connection. Select *Next* to configure your Serial connection. A list of available ports will appear.

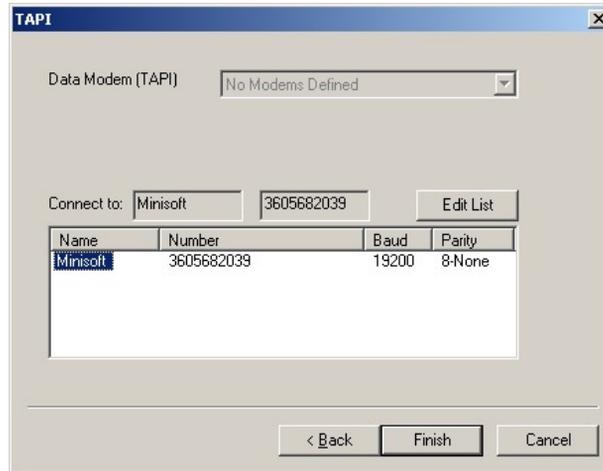


Baud Rate: The speed at which telecommunicated data is transmitted up to a maximum of 38,400 bps. Measured in bits per second. Select a setting that matches your host computer.

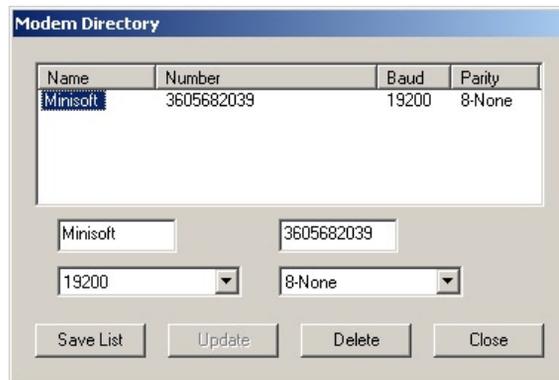
Data - Parity - Stop bits: Select the one that matches the receiving system. Default is 8-None.

TAPI

“Telephony API” interface (shared modems in windows). Select *Next* to configure TAPI options.



Select *Edit List* to configure a modem:



Modem

Serial connection to modem. Select Next to configure your connection.

The screenshot shows the 'Modem' configuration window. At the top left, 'COM3' is selected in a list box. To the right, there is an 'Outside Line Prefix' text box and a 'Modem Type' dropdown menu set to 'Hayes Tone'. Below this is a checkbox for 'Redial'. The 'Connect to:' section has two empty text boxes and an 'Edit List' button. A table below lists a connection named 'Minisoft' with the number '3605682039', a baud rate of '19200', and a parity of '8-None'. At the bottom are three buttons: '< Back', 'Finish', and 'Cancel'.

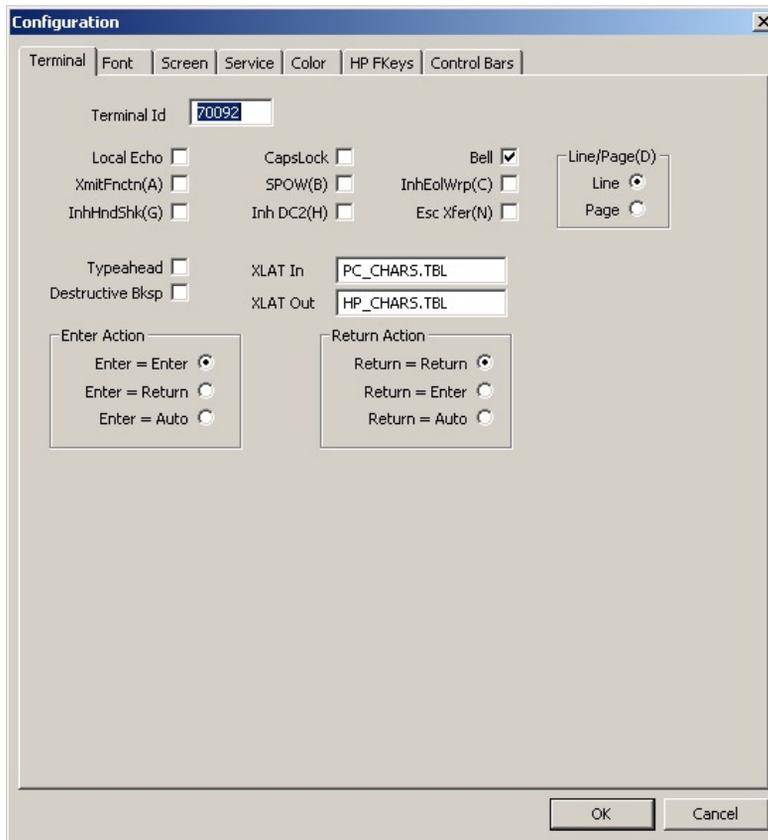
Name	Number	Baud	Parity
Minisoft	3605682039	19200	8-None

SSH

Secure Shell. The encrypted form of TELNET. Select Next to configure your Host IP Address and port number.

The screenshot shows the 'Secure Shell (SSH)' configuration window. It has two text input fields: 'Host Address' containing '192.168.23.197' and 'Port' containing '22'. At the bottom are three buttons: '< Back', 'Finish', and 'Cancel'.

Terminal Options



Terminal ID: Default value in this field is 70092. Allows you to enter the ID number of the terminal you are emulating.

The 2392A and 700/9x are more recent HP terminals, which certain HP application software may not recognize. You may change the Terminal ID by typing: 2624A or 2622A. This will not change the emulation features of Secure92 but will allow the HP host software to recognize the terminal.

Local Echo: Causes type to appear immediately on your PC screen. Default is unchecked.

XmitFnctn(A): Transmits functions associated with control characters. Default is unchecked.

InhHndShk(G): Makes a connection with InhDC2 to control handshaking. Default is unchecked.

CapsLock: Capitalizes all typed characters. Default is unchecked.

SPOW(B): Causes the spacebar to write spaces over characters. Default is unchecked.

Inh DC2(H): Works in conjunction with InhHndShk to control handshaking. Default is unchecked.

Bell: Activates your PC's audio alarm. Default is unchecked.

InhEolWrp(C): Inhibits line wrapping. Default is unchecked.

Esc Xfer(N): Controls the transfer of escape sequences to a printer. Default is unchecked.

Line/Page(D): Select Line or Page to transmit data to the host by line or page; Default is LINE.

Typeahead: Turns Type-ahead ON and OFF. Type-ahead allows you to type characters before the HP host is ready to receive them. Secure92 stores the characters and transmits them when the host is ready.

Destructive Bksp: Causes the backspace key to erase characters as it moves the cursor to the left.

XLAT In: PC keyboard to host computer.

Translation table: HP_CHARS.TBL

Tabload Value: 1

XLAT Out: Host computer to PC monitor.

Translation table: PC_CHARS.TBL

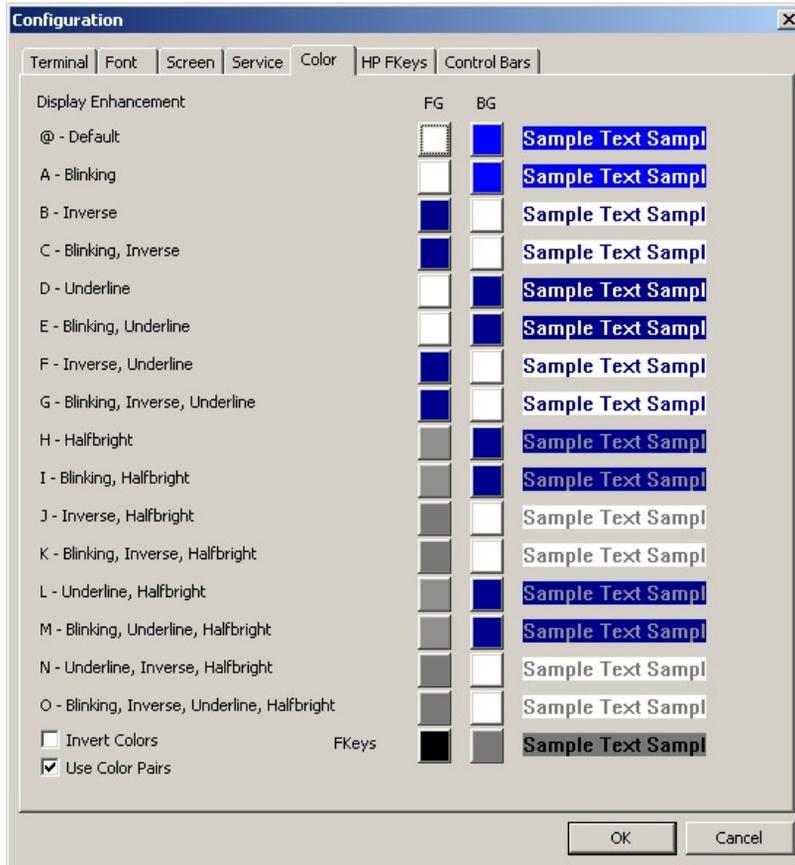
Tabload Value: 2

Enter Action: Choose from Enter = Enter, Enter = Return, or Enter = Auto.

Return Action: Choose from Return = Return, Return = Enter, Return = Auto.

Color Options

Configure enhancements for halfbright, inverse, underline, blinking, and any combination of these:

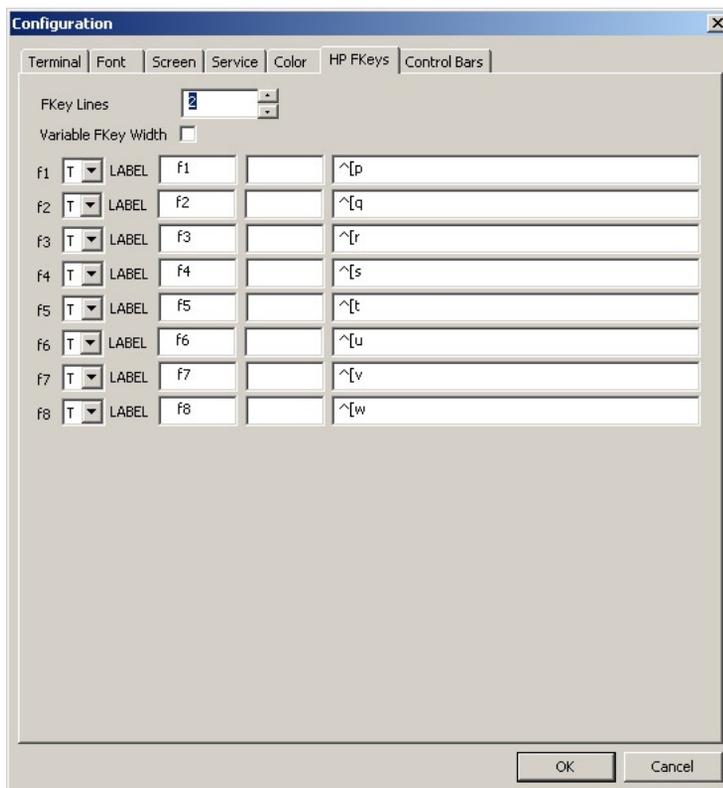


Function Key Options

The user-defined keys, F1 through F8, display along the bottom of the screen as shown in the following dialog box.



A label for each key appears in a box that represents the key. By defining and saving your own function key values, you can enter frequently-used commands or run Term-Talk scripts with a single keystroke or mouse click.



Mode Keys

Modes keys control the mode of communication between the keyboard and the host.

F3 - Block Mode: Toggles between Block Mode and Character Mode (Asterisk indicates Block Mode is ON). In Block Mode, the characters are not sent to the host until you press RETURN, whereas in character mode, each character is sent to the host as soon as the key is pressed.

F4 - Remote Mode: Toggles the terminal between Remote Mode and Local Mode. (Asterisk indicates Remote Mode is ON.)

F6 - Memory Lock: Turns Memory Lock ON and OFF. Memory Lock can be used in Overflow Protect Mode or Display Lock Mode. Overflow Protect prevents data loss due to memory overflow. Display Lock is used to lock lines of text on the screen so it does not move using Roll Up or Roll Down.

F7 - Display Functions: Turns Display Functions ON and OFF. In this mode, control characters and control codes are displayed as symbols on the screen. You must use Win92 (win92.fon) or Minisoft 92 (minisoft92.ttf) fonts to display the control code symbols correctly.

F8 - Auto Linefeed: Turns automatic line feed ON and OFF. Auto Linefeed causes a line feed with every carriage return.

Display Enhancements Operations

The following table shows the escape codes used for display enhancements. To start and end display enhancements, use this escape sequence:

ESC&d <char>

Where char is one of the following:

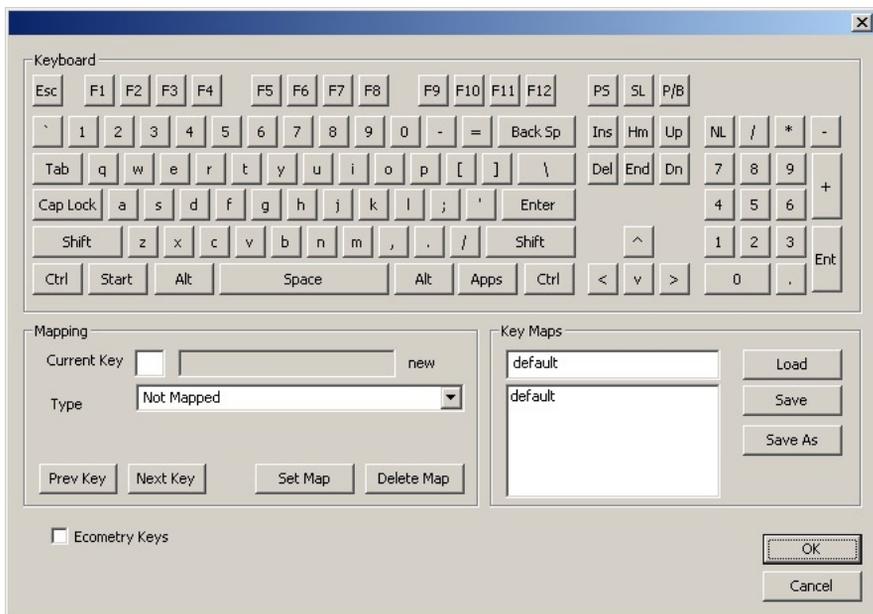
	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Half-Bright								
Underline				
Inverse Video		
Blinking	
End Enhancement	.															

The display enhancement specified by char in the escape sequence begins at the current cursor position. For example, to select the underline, inverse video, blinking enhancement, use this escape sequence:

ESC&d G

Keyboard Mapping

There are keys that exist on a terminal that do not exist on a PC keyboard, you must map terminal keys to PC keys in order to send certain commands that are available on a terminal. Secure92 allows you to configure keyboard mapping for both HP and VT terminals, depending on whether you are running HP or DEC emulation.

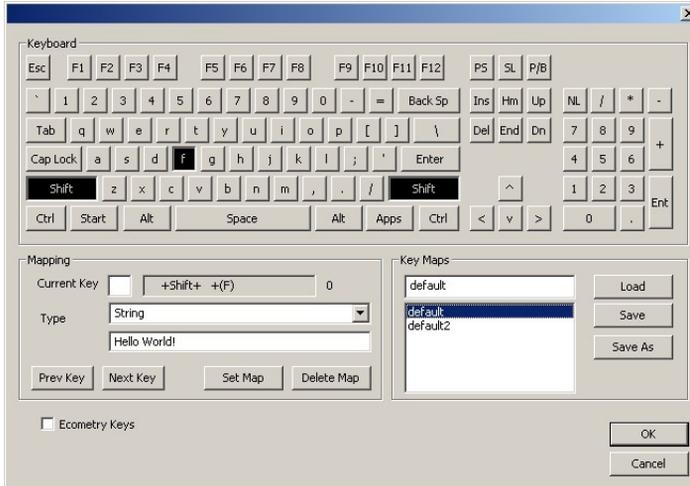


To map the keyboard:

1. To map all keys to a default configuration, click Defaults.
2. To map keys manually, select a PC key (or set of keys) you wish to map.
3. Select the Type of configuration you would like to set:

*HP Key
Script*

*String
PC Command*



4. Once set, select *Set Map*.

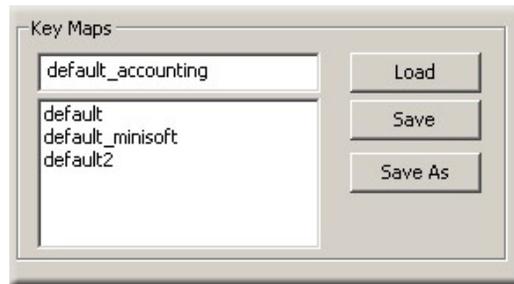
Extend the number of PC keys available by clicking the Control, Alt, or Shift options to create a key combination. For example, map the PC key combination Ctrl-Shift-L to the HP Ins Ln key.

Note: To remove the configured mapped key, select *Delete Map*.

Multiple Key Maps

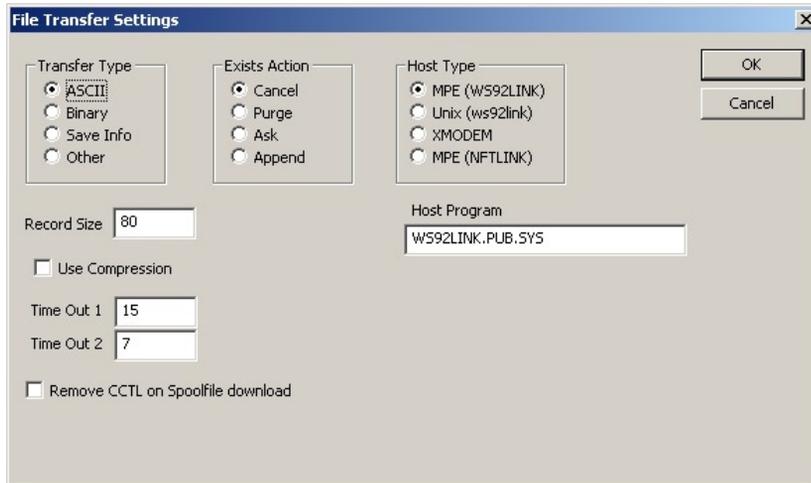
Multiple Key Maps can also be configured:

1. Enter a new Key Map name in the *Key Maps* field and then select *Save As*.



2. To load an alternative Key Map, select the Key Map you would like to load and then select *Load*.

File Transfer



Options available:

Transfer Type

ASCII: Transfer as a character-based file.

Binary: Transfers a binary image of the file being transferred, no CRLF will be added to the PC file.

Save Info: Saves the file information in the first 128 bytes of the destination file.

Other: For all other transfer types.

Exists Action

Cancel: Cancels the transfer of the file.

Purge: Purges the existing file and then overwrites the existing file with the contents of the file being transferred.

Ask: Prompts for action.

Append: Appends the contents of the file being transferred to the end of the existing file.

Host Type

Choose from one of the following transfer types:

MPE (WS92LINK)
Unix (ws92link)
XMODEM
MPE (NFTLINK)

Secure 92 supports three different file transfer protocols.

WS92LINK – Minisoft proprietary protocol for transferring files to and from HPe3000s over serial or network connections. If you use this protocol, you must install the host link program (ws92link) on you host computer.

Network File Transfer (NFTLINK) – Minisoft’s utility for transferring files across the network. NFTLINK only supports network connections.

Xmodem – A common protocol for transferring files to and from computer systems. Remember that the host computer must have the Xmodem protocol installed.

Record Size

Number of bytes per record; use on uploads only. Default bytes per record is 80.

Use Compression

Compresses the file being transferred.

Note: WS92LINK automatically uses data compression if the connection is serial; compression is not used over a network connection.

Time Out 1 and Time Out 2

Used internally for file transfer handshaking with host. Default values are 15 and 7 respectively. If you encounter problems with file transfers Minisoft support may ask you to change these values.

Remove CCTL on Spoolfile download

Removes all carriage controls from downloadable spoolfile.

Host Program

Host program utility to allow file transfers. The default value for an HPe3000 in this field is ws92link.pub.sys. For HP9000 hosts the default will be ws92link typed in lower case letters.

Options Menu

Block Mode

A facility, available only on some terminals, whereby data on a screen can be edited locally and transmitted as a block when the user has finished, rather than character by character.

Remote Mode

A mode of terminal operation in which data is transmitted to and received from a host computer.

Format Mode

Used to control input and formatting of data entered into data entry forms, which are displayed on the screen. Enables restriction of entry data to selected fields on the form. For the HP700/94 terminal, entry data can be restricted to selected data types.

Display Functions

Turns Display Functions ON and OFF. In this mode, control characters and control codes are displayed as symbols on the screen. You must use Minisoft 92 (minisoft92.ttf) fonts to display the control code symbols correctly.

Auto Line Feed

Turns automatic line feed ON and OFF. Auto Linefeed causes a line feed with every carriage return.

Keyboard Lock

Turns keyboard lock ON and OFF.

Memory Lock

Turns Memory Lock ON and OFF. Memory Lock can be used in Overflow Protect Mode or Display Lock Mode. Overflow Protect prevents data loss due to memory overflow. Display Lock is used to lock lines of text on the screen so it does not move using Roll Up or Roll Down.

FKeys

Displays User Keys and allows you the option to hide or lock the User and Mode Keys from display.

Show User Keys

Displays User Keys, F1-F8, on the display screen.

Show Mode Keys

Displays Mode Keys on the display screen.

Trouble Menu

Soft Reset

Reset the connection by selecting Soft Reset from the Trouble menu (ALT-S).

Selecting Soft Reset or ALT-S:

- ◆ Rings the terminal bell.
- ◆ Halts any device operations currently in progress.
- ◆ Enables the keyboard (if disabled).
- ◆ Clears any existing error conditions and removes the error message display (if present) from the bottom of the screen.
- ◆ Disables display functions mode (if enabled).
- ◆ If record mode is on, a soft reset will turn it off.
- ◆ Halts any datacomm transfers currently in progress and clears the datacomm buffer.

Hard Reset

Selecting Hard Reset or pressing ALT-R has the same effect as turning the terminal's power off and then back on.

A hard reset:

- ◆ Rings the terminal bell.
- ◆ Halts any device operations currently in progress.
- ◆ Enables the keyboard (if disabled).
- ◆ Clears all display memory.
- ◆ Clears any existing error conditions and removes the error message display (if present) from the bottom of the screen.
- ◆ Halts any datacomm transfers currently in progress and clears the datacomm buffer.

Break

Selecting Break or pressing ALT-B while in remote mode breaks the computer operation to the host computer; you may need to abort your host session after issuing this command. Break transmits a 200ms space on the asynchronous transmit-data communication line. This serves as a signal to interrupt computer operations between the PC and host computer.

Disconnect

Selecting Disconnect breaks the connection over a modem or network. For a modem connection, Disconnect lowers DTR for two seconds.

Connect

Selecting Connect reconnects your connection.

Print

Start Logging

Begins logging the contents of the display screen to the clipboard.

Log Line

Logs line to the clipboard.

Log Selected Text

Logs selected text to the clipboard.

Log Page from Cursor

Logs page from cursor position to the clipboard.

Log All From Cursor

Logs all display from cursor position to clipboard.

Log All

Logs all display to the clipboard.

Insert Page Break

Inserts a page break in logging output.

Print Logged

Prints logged information to default printer.

Saved Logged

Allows you to save logging to a file.

Save Logged to Clipboard

Saves logging to clipboard.

Clear Log

Clears logging information from logging memory.

Help Menu

About Secure92. Version and Copyright information

Appendix A: Function Key Operations

The following section shows the escape sequences necessary for using and defining the function keys.

Enabling and Disabling Function Keys

To enable and disable the function keys (F1 through F8), use this escape sequence:

ESC&j <X>

where the value of x is one of the following:

X=	Operation
A	Displays the Modes set of function key labels.
B	Enables the User function keys (user key labels are displayed).
C	Clears the error message from the screen and returns the last displayed level of function key labels.
@	Removes the function key labels from the screen, but leaves the keys enabled.
S	Disables the System, Modes, and User keys; in other words, disables changing the function keys.
R	Enables the System, Modes, and User keys.

Defining Function Keys

You can use escape sequences to customize the labels of the function keys and to program the action that the function keys perform.

To customize function key labels, use this escape sequence:

ESC&j <string length>L <message>

where string length is a number up to 160, indicating the number of characters in the string. Message is the label to appear on the function key.

To define functions for the function keys, use the following escape sequence:

ESC&f <attribute>a <key>k <label length>d
<string length>L <label><string>

where the values of the terms are as follows:

Term	Value	Meaning
<i>attribute</i>	0	Normal (N)
	1	Local only (L)
	2	Transmit only (T)
<i>key</i>	1	F1 function key
	2	F2 function key
	3	F3 function key
	4	F4 function key
	5	F5 function key
	6	F6 function key
	7	F7 function key
	8	F8 function key
<i>label length</i>	0 through 16	Number of characters in the label.
<i>String length</i>	0 through 80	Number of characters in the string.
	-1	Clears the content of the string.

<i>Label</i>		Characters to appear on the function key.
<i>String</i>		Character string to transmit when key is pressed.

ESC&f <x>E

Executes the action assigned to Function Key x.

x	Key
1-8	F1-F8
-1	block mode enter

Example:

^[&f-1E

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