Novell Nsure™ SecureLogin

3.51.2

April 08, 2005

www.novell.com

CONFIGURATION GUIDE FOR TERMINAL EMULATION

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Nsure SecureLogin 3.51.2 Configuration Guide for Terminal Emulation
April 08, 2005

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About This Guide

Terminal Launcher is a component of SecureLogin. Terminal Launcher allows users to log into any type of host that requires the user to log in using an emulator (for example, ACF2 or RACF mainframe, a UNIX* host, or a Cisco* router). The user or administrator configures Terminal Launcher to connect to the mainframe or host, wait for the login sequence, then enter usernames and passwords.

You can configure Terminal Launcher to work with different terminal emulators. You can use Terminal Launcher to navigate to a particular subsystem or menu within an application. Any keystrokes that an application will accept from the user can be incorporated into SecureLogin scripts to be sent to the host by Terminal Launcher.

Documentation Conventions

In Novell documentation, a greater-than symbol (>) is used to separate actions within a step and items in a cross-reference path.

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When a single pathname can be written with a backslash for some platforms or a forward slash for other platforms, the pathname is presented with a backslash. Users of platforms that require a forward slash, such as Linux or UNIX, should use forward slashes as required by your software.

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We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comment feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

This document provides information on configuring Terminal Launcher to work with selected terminal emulators. For latest documentation, see Novell Nsure SecureLogin 3.51.2 on the Novell documentation Web site (http://www.novell.com/documentation).

Additional Documentation

The *Configuration Guide for Terminal Emulation* is part of a documentation set for SecureLogin 3.51.2. Other documents include the following:

- The Help systems in SecureLogin on the desktop as well as SecureLogin snap-ins to ConsoleOne® and Microsoft* Management Console.
- The Nsure SecureLogin 3.51.2 Installation Guide (installing SecureLogin, migrating secrets from earlier versions, and configuring Secure Workstation)

- The Nsure SecureLogin 3.51.2 Administration Guide (tools and tasks to manage SecureLogin and configure terminal emulators)
- The Nsure SecureLogin 3.51.2 Scripting Guide (concepts concerning scripting, scripting commands, and example scripts for applications)
- The Nsure SecureLogin 3.51.2 Terminal Services Guide (configuring Citrix servers)
- The Nsure SecureLogin 3.51.2 User Guide (using SecureLogin to enable applications for single sign-on)

1 Setting up Terminal Emulation

Terminal Launcher is a component of Novell® SecureLogin. Terminal Launcher enables you to log in to any type of host that requires you to log in using an emulator (for example, ACF2 or RACF mainframe, a Unix host, or a Cisco router).

You can configure Terminal Launcher to work with several different terminal emulators, navigate to a particular subsystem, or navigate to a menu within an application.

Also, you can save Terminal Launcher scripts as corporate scripts, allowing all users access to the script.

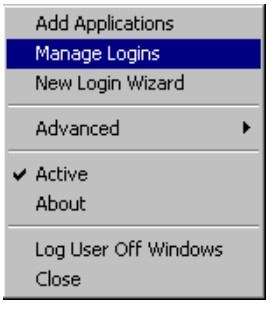
This section provides information on the following;

- "Creating a SecureLogin Script" on page 9
- "Configuring Terminal Launcher" on page 11
- "Creating a Login for an Emulator" on page 13

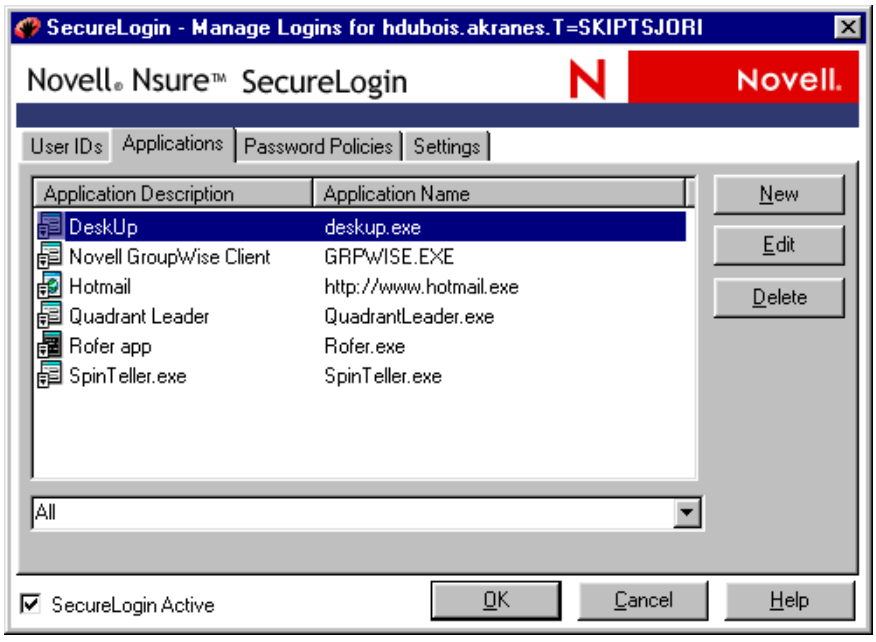
Creating a SecureLogin Script

The following example sets up SecureLogin Terminal Launcher to single sign-on to a session using Jolly Giant QWS3270 Plus.

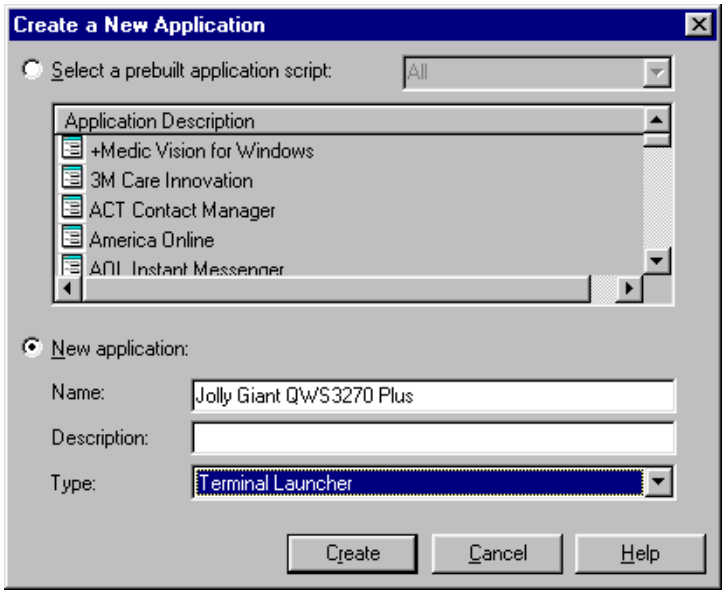
1 Right-click the SecureLogin icon on the system tray, then click Manage Logins.



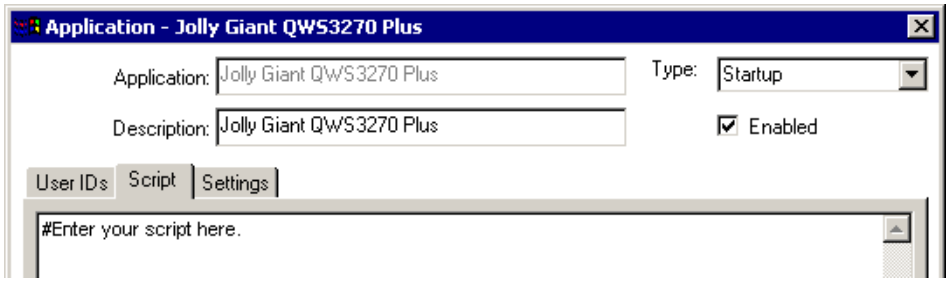
2 Click Applications, then click New.



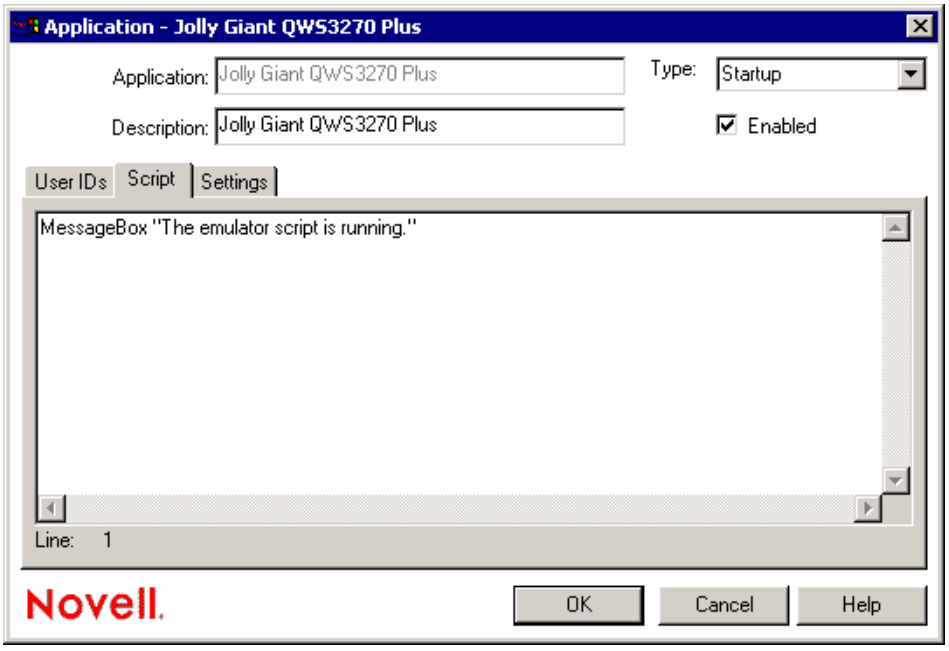
3 Select New Application, type a name in the Name text box, select Terminal Launcher as the type, then click Create.



4 Click Script.



5 Type a script, then click OK.



For example, type a MessageBox command. By entering one command, you can find out the following:

- Terminal Launcher is working as expected.
- The script is ready for you to enter the appropriate commands.

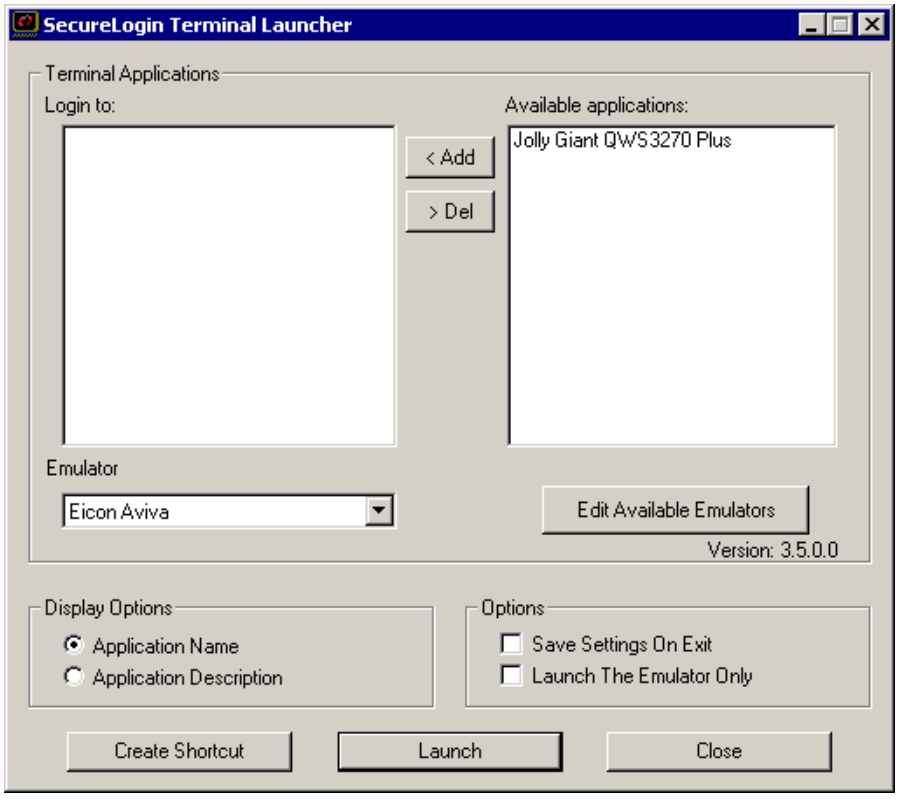
For scripts on specific emulators, refer to the list of emulators in Chapter 2, “Emulator Settings,” on page 17.

6 Save the data and close open windows by clicking OK.

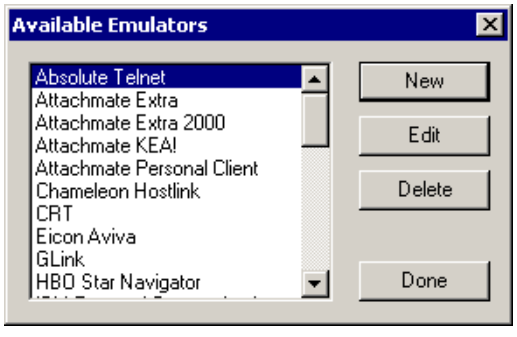
Configuring Terminal Launcher

1 Click Start > Programs > Novell SecureLogin > Terminal Launcher.

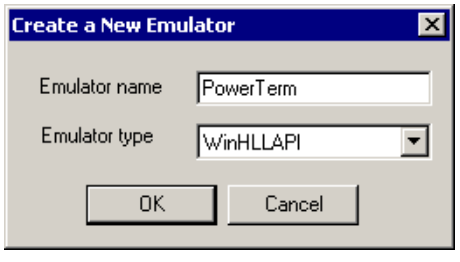
As the following figure illustrates, Terminal Launcher displays emulators that you have created scripts for:



2 Click Edit Available Emulators > New.



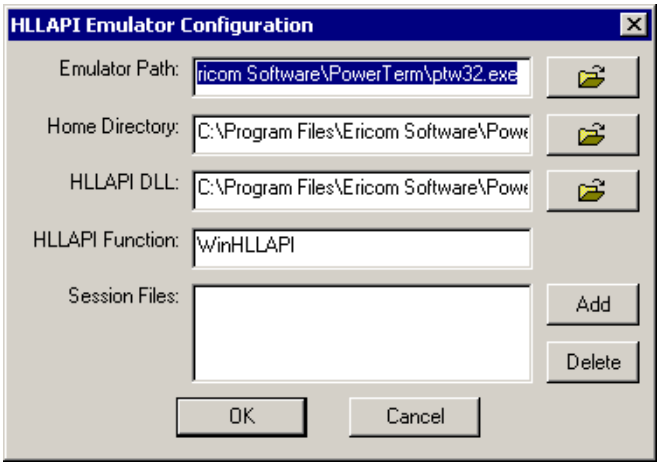
3 Type a name for the emulator, select an emulator type from the drop-down list, then click OK.



To find the emulator type, you might have to refer to the documentation for your emulator.

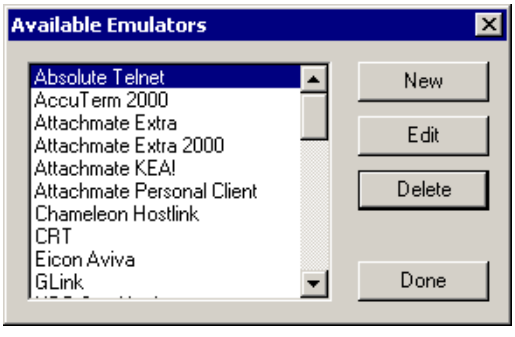
4 Type values, then click OK.

The text boxes for the values depend on the type of emulator. The following figure illustrates values for a WinHLLAPI emulator.



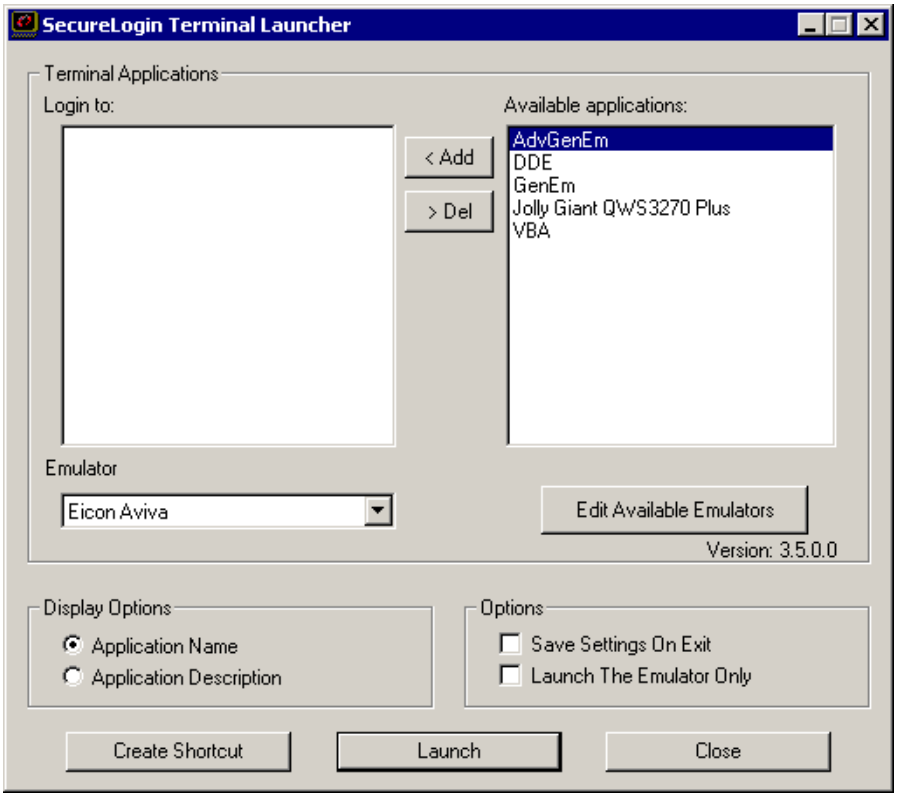
For values on a specific emulator, see the list of emulators in Chapter 2, "Emulator Settings," on page 17. If an emulator isn't listed, see "Working with Terminal Emulators" in the *Nsure SecureLogin 3.51.2 Administration Guide*.

5 In the Available Emulators dialog box, click Done.



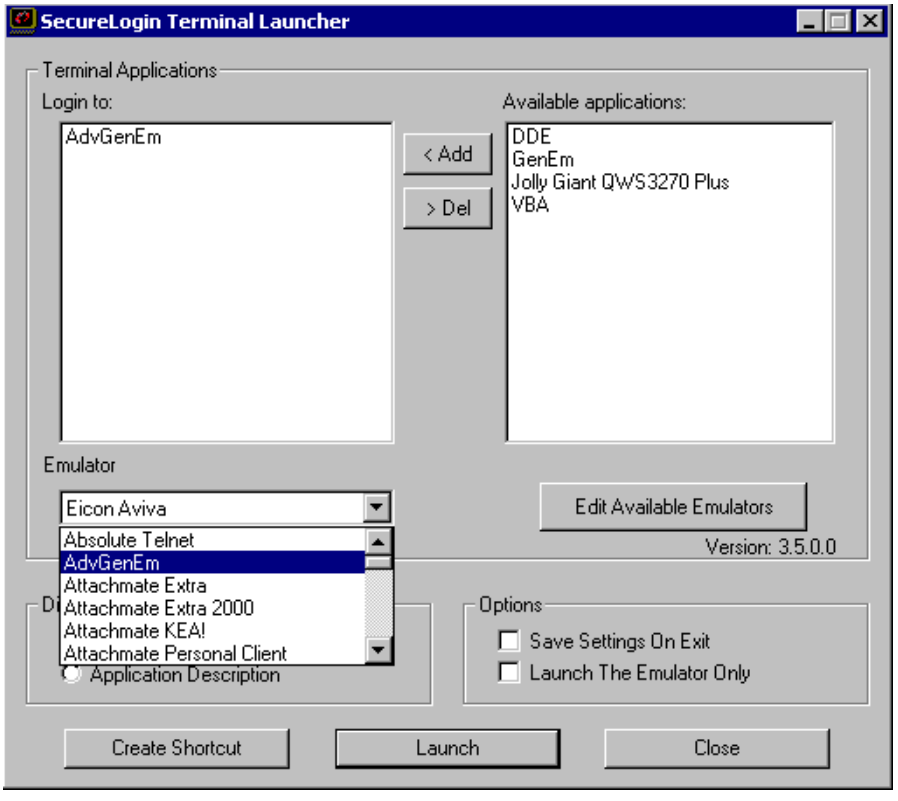
Creating a Login for an Emulator

1 From the list in the Available Applications pane, click the application that you want to log in to, then click Add.



To move an entry from one side to another, you can double-click it.

2 Select the emulator from the Emulator drop-down list, then click Launch.



The selected application script runs, using the selected emulator.

The first time the script is run, you encounter a prompt to enter your username and password. Enter the required values, then click OK. Terminal Launcher launches the emulator, enters your username and password, and logs you in to a session.

2 Emulator Settings

This section provides information on configuring SecureLogin Terminal Launcher to work with your emulator. The information is a guide. If you need to modify the information to suit your environment or a particular version of software, see "Working with Terminal Emulators" in the *Nsure SecureLogin 3.51.2 Administration Guide*.

- "Absolute Telnet" on page 18
- "AccuTerm 2000" on page 19
- "AniTa 32" on page 20
- "Attachmate Extra 2000 Enterprise" on page 21
- "Attachmate Kea!" on page 21
- "Attachmate Personal Client" on page 22
- "CRT v3.4" on page 25
- "DynaComm" on page 26
- "GLink v6.2" on page 27
- "HBO Star Navigator v2.7" on page 28
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- "IBM Personal Client" on page 30
- "IDX Term v2.25" on page 31
- "Inet 3270" on page 33
- "Jolly Giant QWS3270 Plus v3.6" on page 34
- "Lawsons" on page 35
- "Microsoft Windows 2000 Telnet" on page 36
- "Microsoft Windows XP Telnet" on page 37
- "MiniSoft WS92" on page 38
- "Mocha W32 Telnet v4.1" on page 39
- "NetTerm v4.2 32bit" on page 40
- "Passport TN 3270E v7.0" on page 41
- "PowerTerm v6.34" on page 41
- "QVT Term v4.1" on page 42
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- "SmarTerm v10 for Digital VT" on page 44

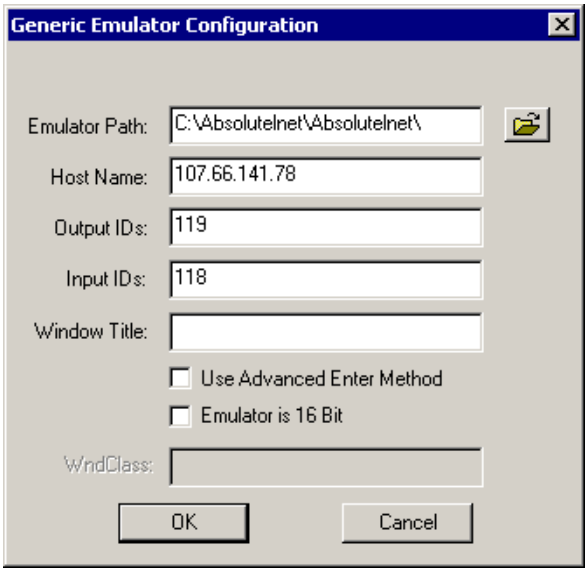
- “Tandem 6530” on page 45
- “TinyTerm v2.0.7” on page 46
- “TinyTerm 4.21” on page 47
- “ViewNow v8.0” on page 48
- “Walldata Rumba 2000 v6.0” on page 49
- “WinComm 2000 v5.2” on page 50
- “Window Telnet VT TE v3.10” on page 51
- “WRQ Reflection v7.0 for Unix and Digital” on page 52

Because the following emulators require particular steps or information, see the complete module:

- Chapter 3, “Single Sign-On for Hummingbird HostExplorer 7,” on page 55
- Chapter 4, “Single Sign-On for MS Windows XP Telnet,” on page 71
- Chapter 5, “Single Sign-On for PCXWare,” on page 77
- Chapter 6, “Single Sign-On for SmarTerm for IBM 3270,” on page 81
- Chapter 7, “Single Sign-On for WRQ Reflection v10,” on page 87

Absolute Telnet

Generic Configuration



- Emulator Path

  The path to the executable file for the emulator.

- Host Name

  The IP address of the host that you want to connect to.

- Output IDs

  119

- Input IDs

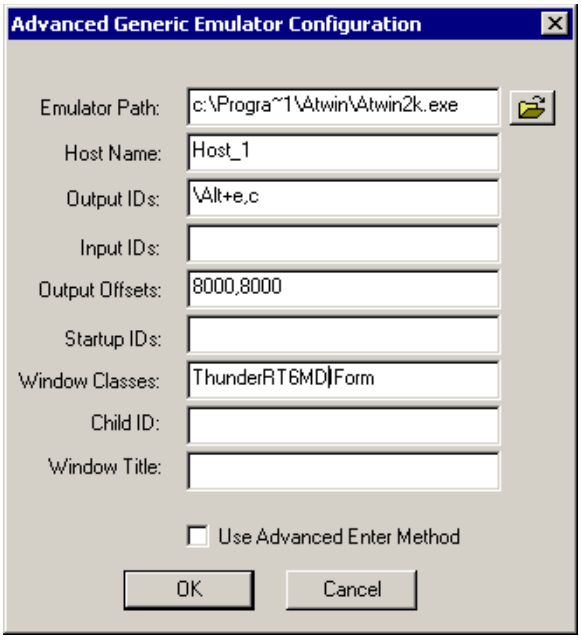
  118

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

AccuTerm 2000

Advanced Generic Configuration



- Emulator Path

  The path to the atwin2k.exe file. This path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  The session file of the host that you want to connect to.

- Output IDs

  \Alt+e,c

- Output Offsets

  8000,8000

- Window Classes

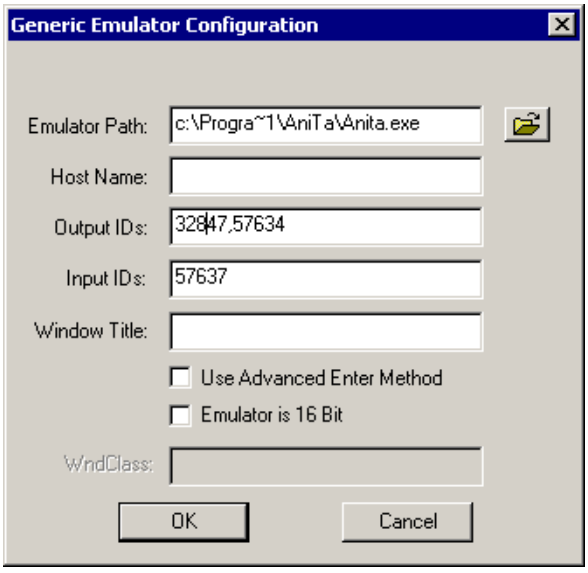
  ThunderRT6MDIForm

Script

```
Delay 7000
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

AniTa 32

Generic Configuration



- Emulator Path

  The path to the anita.exe file.
- Output IDs

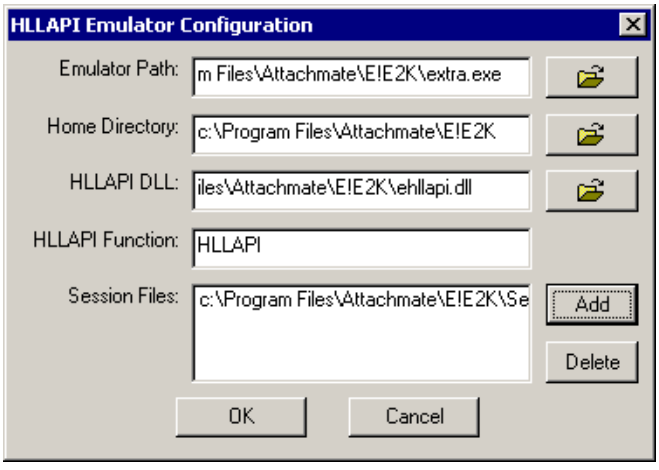
  32847,57634
- Input IDs

  57637

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

HLLAPI Configuration



- Emulator Path

  The path to the extra.exe file.

- Home Directory

  The home directory of the emulator.

- HLLAPI DLL

  The path to the ehllapi.dll file.

- HLLAPI Function

  HLLAPI

- Session Files

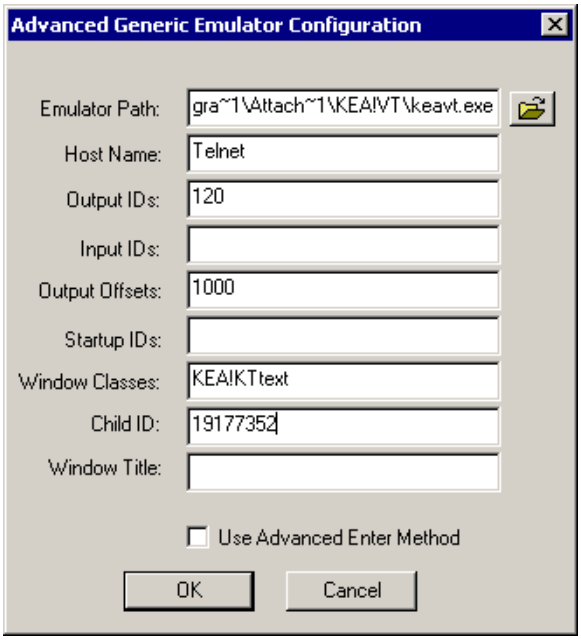
  The path to the session file that you want to use.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Attachmate Kea!

Advanced Generic Configuration



- Emulator Path

  The path to the keavt.exe file. This path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  The session file of the host that you want to connect to.

- Output IDs

  120

- Output Offsets

  1000

- Window Classes

  KEA!,KTtext

- Child ID

  19177352

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Attachmate Personal Client

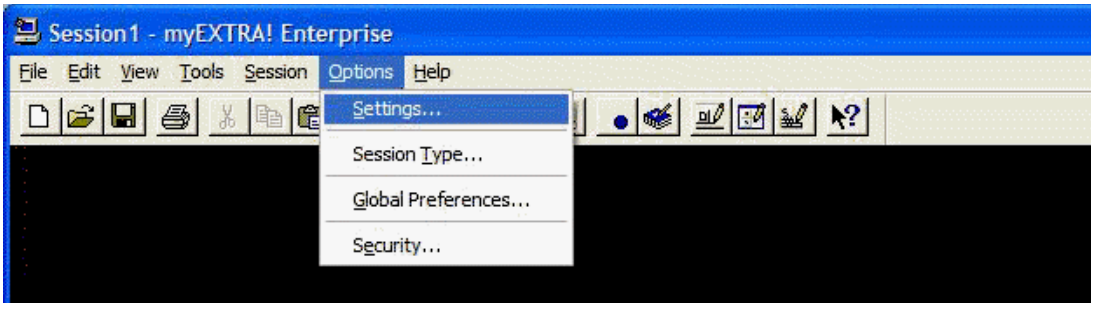
This section shows the specific configuration required for Attachmate Personal Edition to work with SecureLogin. These settings are required for the script and communication to work.

1. Define a session.

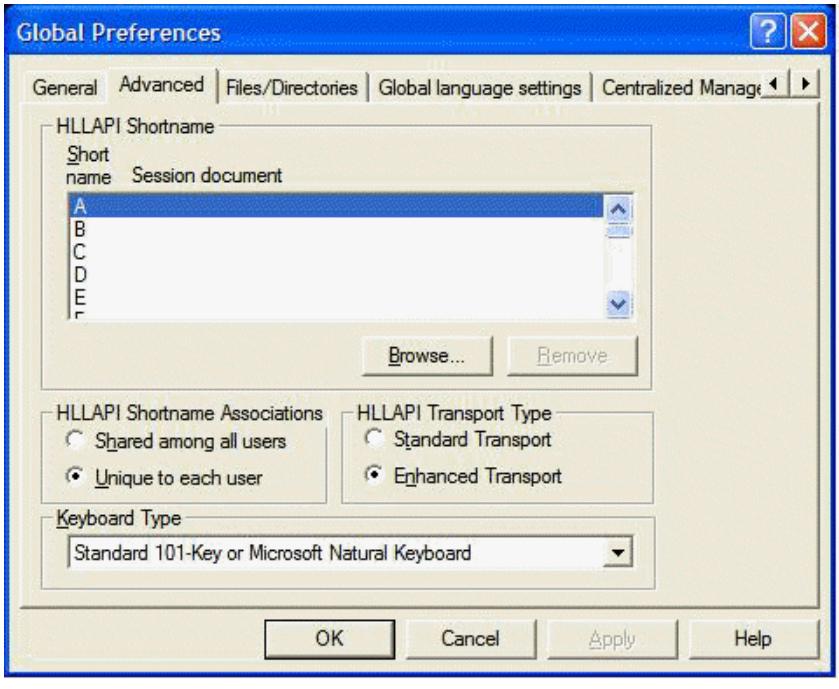
   You typically use a wizard to do this. The wizard defines the terminal type and the Host address that will be contacted.

2. Save the session as a session file, in this case Session1.

3. Within the live Attachmate session, select Options > Global Preferences.

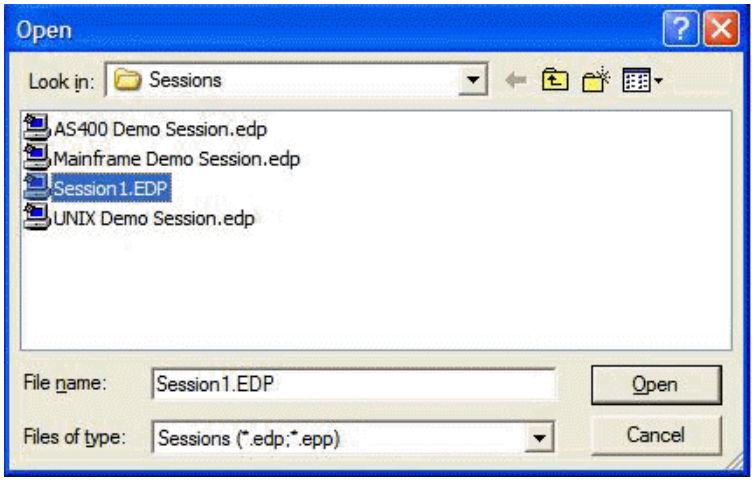


The Advanced Tab displays a list of the HLLAPI short names.

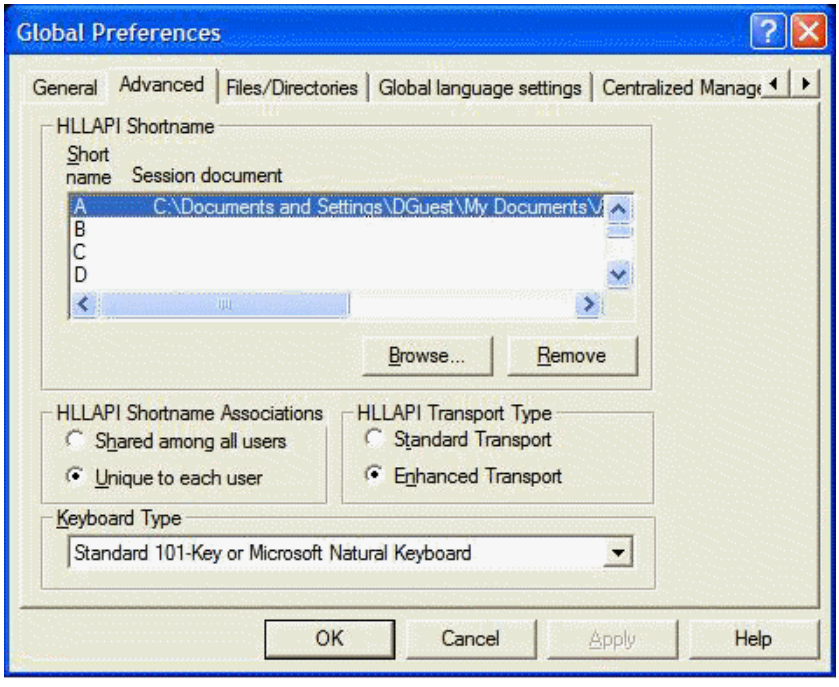


Link the session identifier A with the active session in the emulator. This tells the HLLAPI to insert any commands into the correct session identifier.

4. Using Browse, identify the session correctly as the current running session, in this case Session1 again.

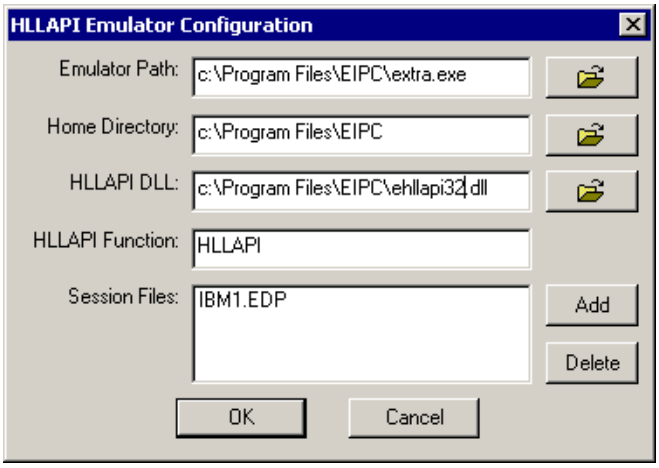


5 Verify the session document by using the Advanced tab within Global Preferences.



After you save this session file, the Secure Login TLAUNCH system is able to interact with the emulator correctly.

HLLAPI Configuration



- Emulator Path

  The path to the extra.exe file.

- Home Directory

  The home directory of the emulator.

- HLLAPI DLL

  The path to the ehlapi32.dll file.

- HLLAPI Function

  HLLAPI

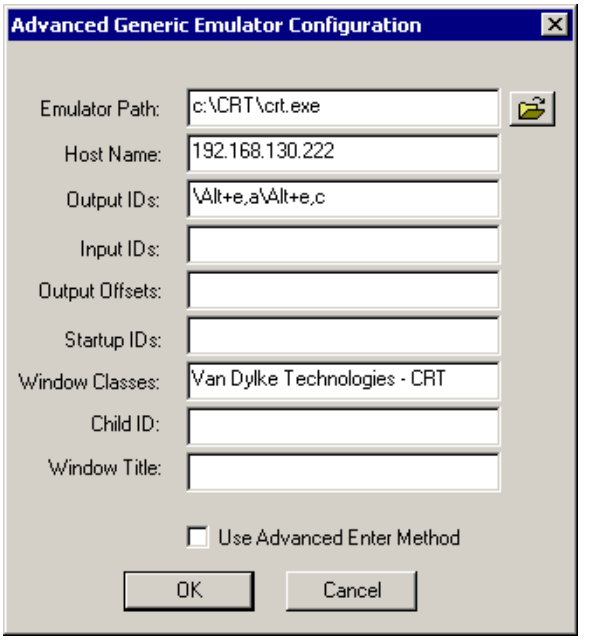
- Session Files

  The path to the session file that you want to use.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the crt.exe file.

- Host Name

  The IP address of the host that you want to connect to.

- Output IDs

  \Alt+e,a,\Alt+e,c

- Window Classes

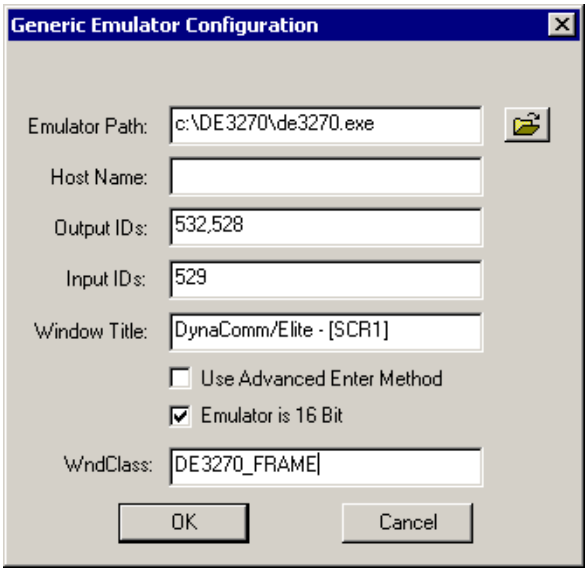
  Van Dylke Technologies - CRT.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

DynaComm

Generic Configuration



- Emulator Path

  The path to the de3270.exe file.

- Output IDs

  532,528

- Input IDs

  529

- Window Title

  The title that the emulator window displays when the emulator is launched and connected to the host.

- Emulator is 16 Bit

  Checked

- WndClass

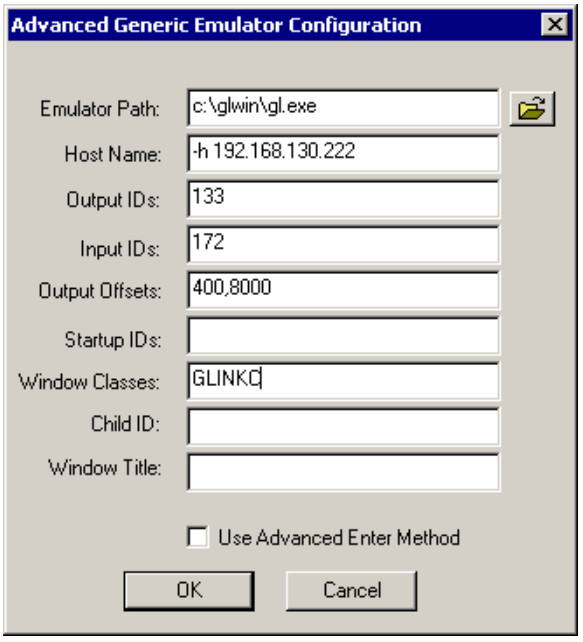
  DE3270_FRAME

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

GLink v6.2

Advanced Generic Configuration



- Emulator Path

  The path to the gl.exe file.
- Host Name

  The IP address of the host that you want to connect to. Type -h in front of the address.
- Output IDs

  133
- Input IDs

  172
- Output Offsets

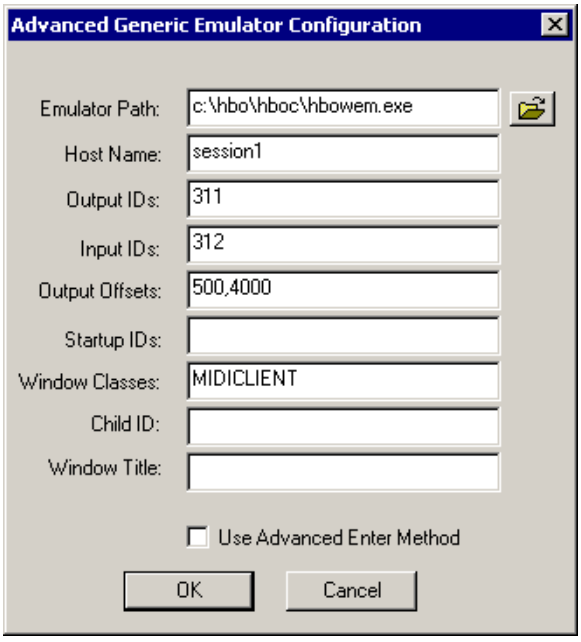
  400,8000
- Window Classes

  GLINKC

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the hbowem.exe file.
- Host Name

  The session file of the host that you want to connect to.
- Output IDs

  311
- Input IDs

  312
- Output Offsets

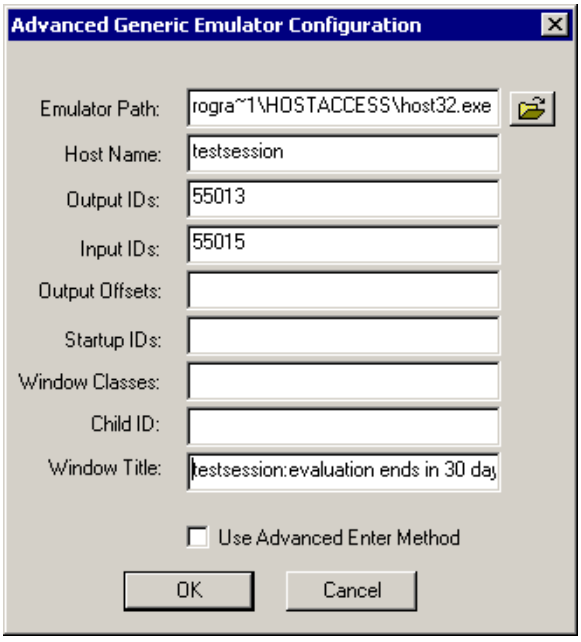
  500,4000
- Window Classes

  MIDICLIENT

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the host32.exe file. The path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  The name of the session file that you want to use.

- Output IDs

  55013

- Input IDs

  55015

- Window Title

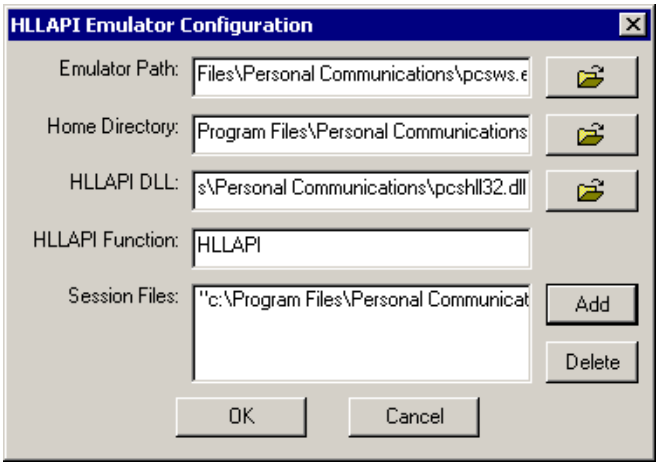
  The title of the emulator window.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

IBM Personal Client

HLLAPI Configuration



- Emulator Path

  The path to the pcsws.exe file.
- Home Directory

  The home directory of the emulator.
- HLLAPI DLL

  The path to the pcshll32.dll file.
- HLLAPI Function

  HLLAPI
- Session Files

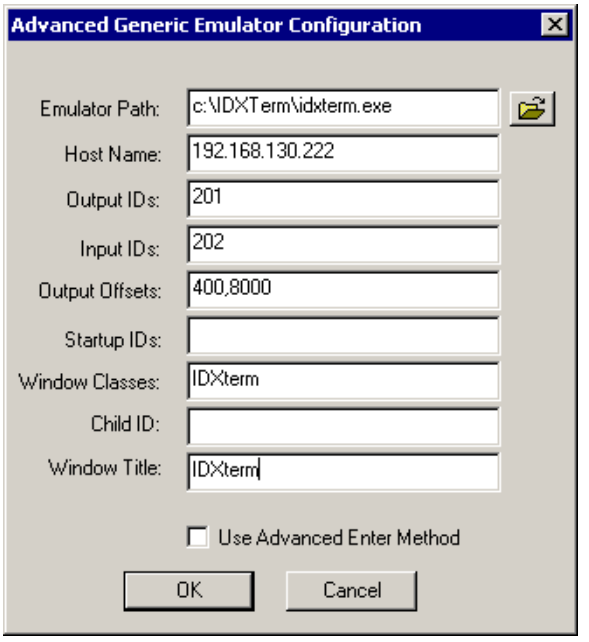
  The path to the session file that you want to use.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

IDX Term v2.25

Advanced Generic Configuration



- Emulator Path

  The path to the idxterm.exe file.
- Host Name

  The IP address of the host that you want to connect to.
- Output IDs

  201
- Input IDs

  202
- Output Offsets

  400,8000
- Window Classes

  IDXterm
- Window Title

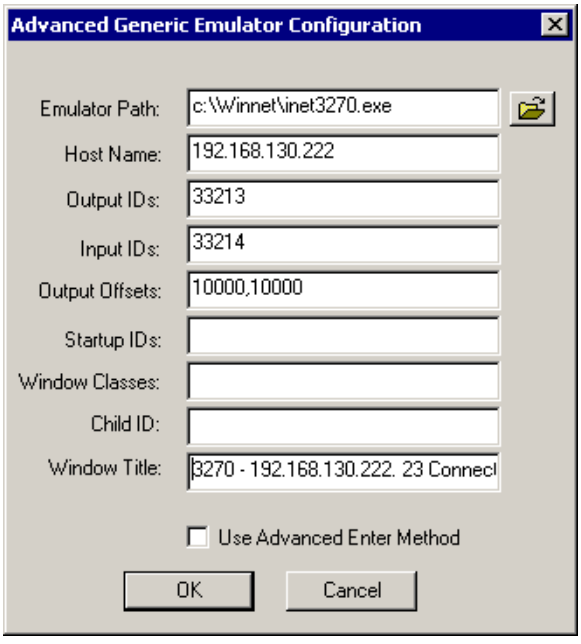
  IDXterm

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Inet 3270

Advanced Generic Configuration



- Emulator Path

  The path to the inet3270.exe file.

- Host Name

  The IP address of the host that you want to connect to.

- Output IDs

  33213

- Input IDs

  33214

- Output Offsets

  10000,10000

- Window Classes

  IDXterm

- Window Title

  The title that the emulator window displays when the emulator is launched and connected to the host.

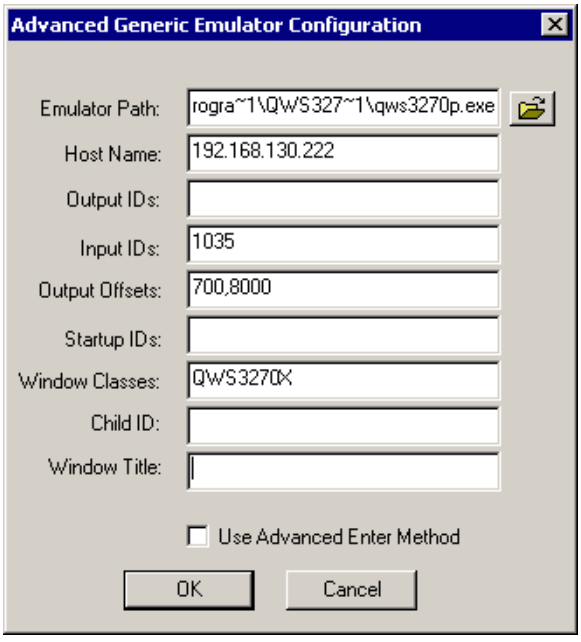
Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
```

```
Type $Password
Type @E
```

Jolly Giant QWS3270 Plus v3.6

Advanced Generic Configuration



- Emulator Path

  The path to the qws3270p.exe file. The path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  The IP address of the host that you want to connect to.

- Input IDs

  1035

- Output Offsets

  700,8000

- Window Classes

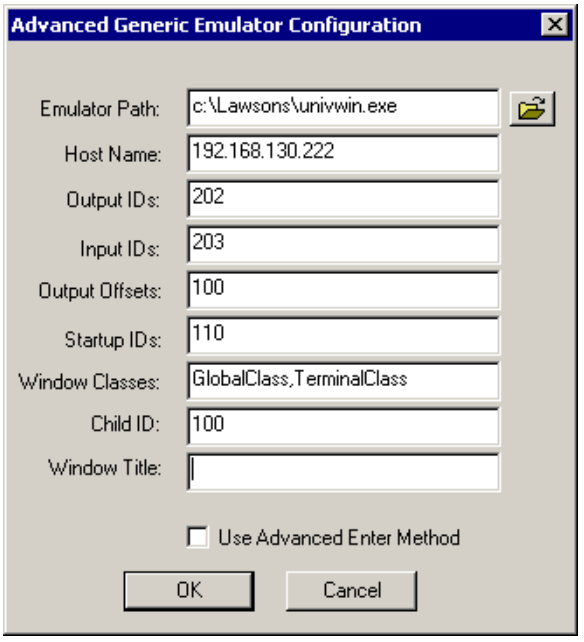
  QWS3270X

Script

```
Delay 2000
Type $Username
Type @E@E
Delay 1000
Type $Password
Type @E@E
```

Lawsons

Advanced Generic Configuration



- Emulator Path

  The path to the univwin.exe file.
- Host Name

  The IP address of the host that you want to connect to.
- Output IDs

  202
- Input IDs

  203
- Output Offsets

  100
- Startup IDs

  110
- Window Classes

  GlobalClass,TerminalClass
- Child ID

  100

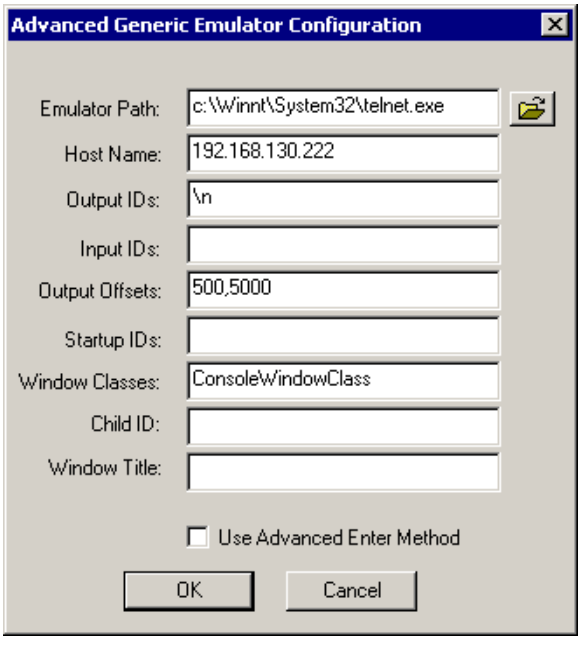
Script

```
WaitForText "ogin:"
Type $Username
Type \N
```

```
WaitForText "assword"
Type $Password
Type \N
```

Microsoft Windows 2000 Telnet

Advanced Generic Configuration



- Emulator Path

  The path to the telnet.exe file.
- Host Name

  The name or IP address of the host that you want to connect to.
- Output IDs

  \n
- Output Offsets

  500,5000
- Startup IDs

  110
- Window Classes

  ConsoleWindowClass

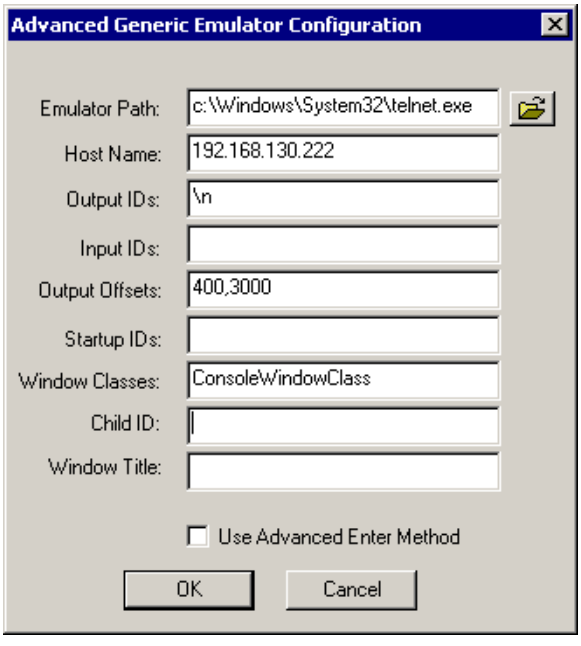
Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
```

```
Type $Password
Type @E
```

Microsoft Windows XP Telnet

Advanced Generic Configuration



- Emulator Path

  The path to the telnet.exe file.
- Host Name

  The IP address, host name, or session file of the host that you want to connect to.
- Output IDs

  \n
- Output Offsets

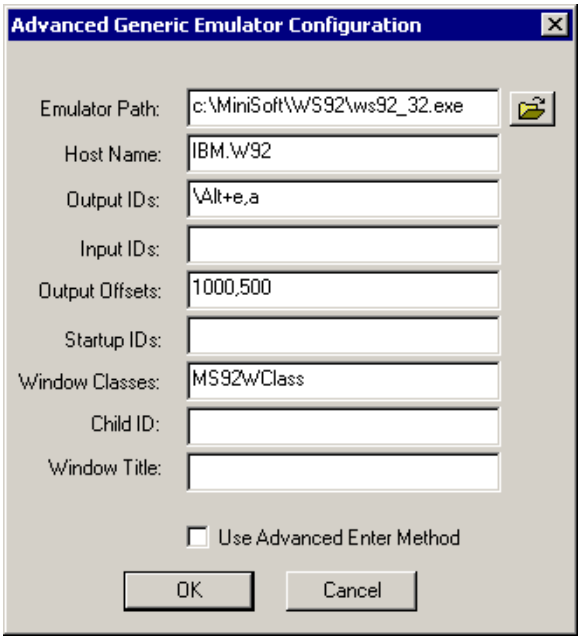
  400,3000
- Window Classes

  ConsoleWindowClass

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the ws92_32.exe file.
- Host Name

  The session file of the host that you want to connect to.
- Output IDs

  \Alt+e,a
- Output Offsets

  1000,500
- Window Classes

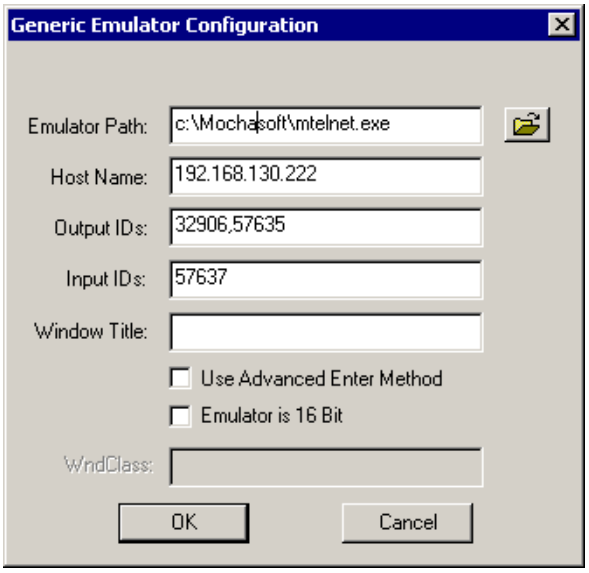
  MS92WClass

Script

```
WaitForText "ACF82003 ACF2, ENTER LOGON ID -"
Type $Username
Type \N
WaitForText "ACF82004 ACF2, ENTER PASSWORD -"
Type $Password
Type \N
WaitForText "HIT ENTER TO CONTINUE"
Type \N
```

Mocha W32 Telnet v4.1

Generic Configuration



- Emulator Path

  The path to the mtelnet.exe file.

- Host Name

  The name or IP address of the host that you want to connect to.

- Output IDs

  32906,57634

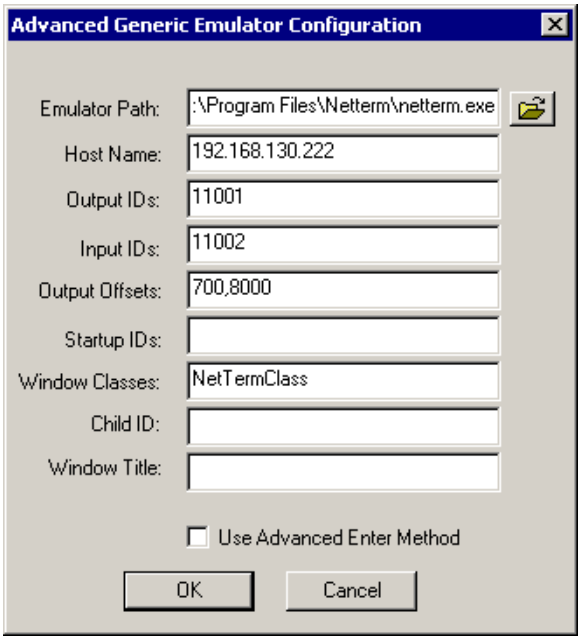
- Input IDs

  57637

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the netterm.exe file.
- Host Name

  The name or IP address of the host that you want to connect to.
- Output IDs

  11001
- Input IDs

  11002
- Output Offsets

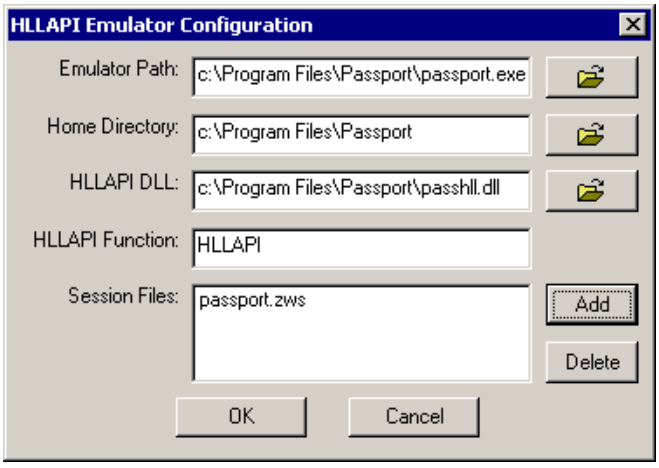
  700,8000
- Window Classes

  NetTermClass

Script

```
Type $Username
Type @E
WaitforText "assword:"
Type $Password
Type @E
```

HLLAPI Configuration



- Emulator Path

  The path to the passport.exe file.

- Home Directory

  The home directory of the emulator.

- HLLAPI DLL

  The path to the passhll.dll file.

- HLLAPI Function

  HLLAPI

- Session Files

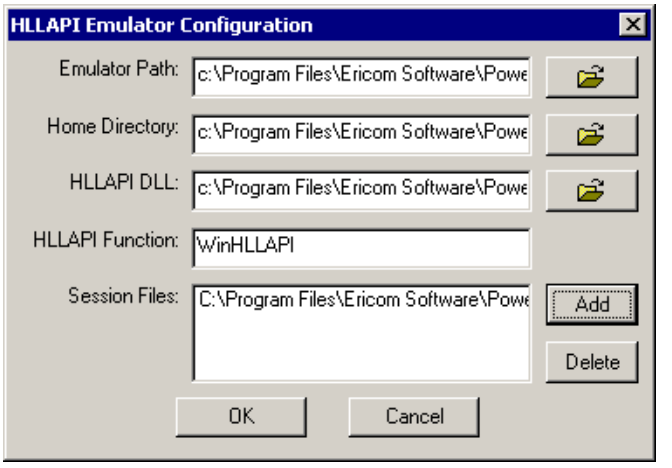
  The path to the session file that you want to use.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

PowerTerm v6.34

WinHLLAPI Configuration



- Emulator Path

  The path to the ptw32.exe file.
- Home Directory

  The home directory of the emulator.
- HLLAPI DLL

  The path to the hllapi32.dll file.
- HLLAPI Function

  WinHLLAPI
- Session Files

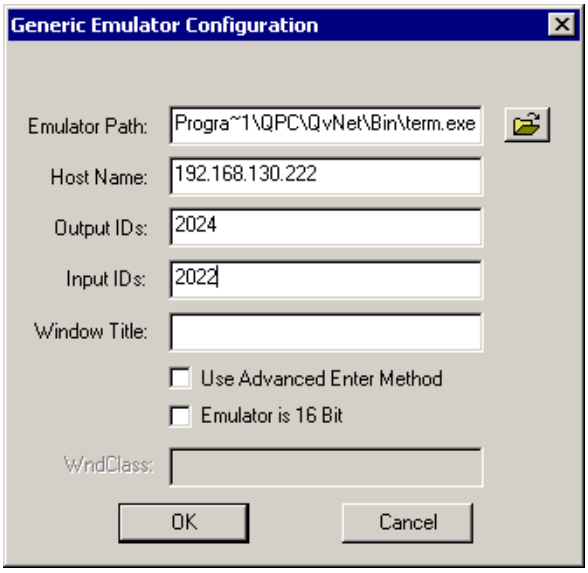
  The path to the session file that you want to use.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

QVT Term v4.1

Generic Configuration



- Emulator Path

  The path to the term.exe file.

- Host Name

  The name or IP address of the server that you want to connect to.

- Output IDs

  2024

- Input IDs

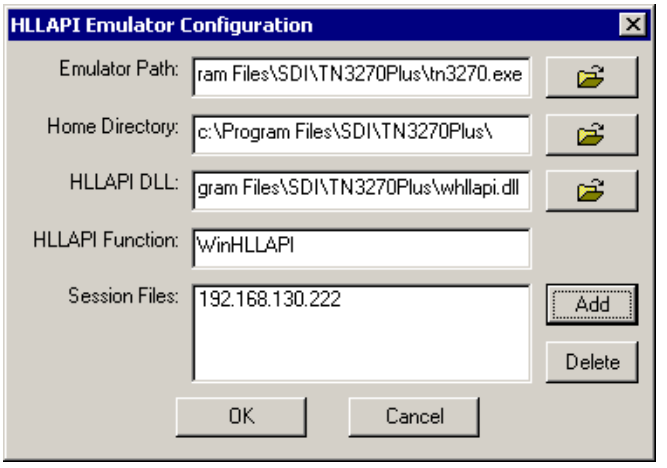
  2022

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

SDI TN3270 Plus

WinHLLAPI Configuration



- Emulator Path

  The path to the tn3270.exe file.
- Home Directory

  The home directory of the emulator.
- HLLAPI DLL

  The path to the WHLLAPI.DLL file.
- HLLAPI Function

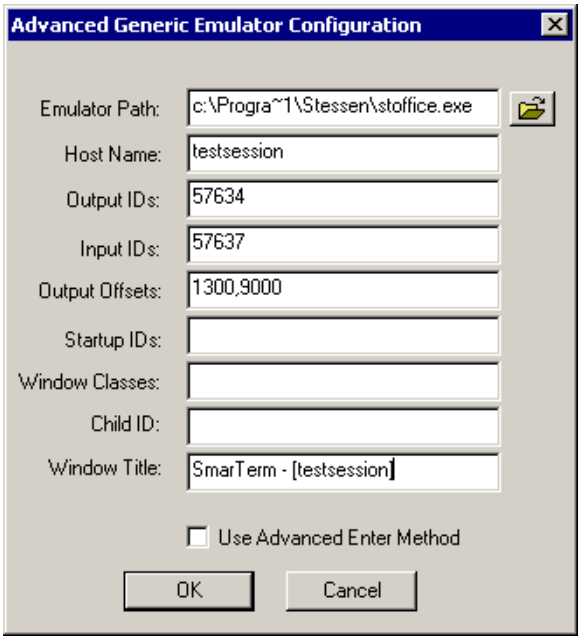
  WinHLLAPI
- Session Files

  The IP address of the host that you want to connect to.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the stoffice.exe file. This path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  The session file of the host that you want to connect to.

- Output IDs

  57634

- Input IDs

  57637

- Output Offsets

  1300,9000

- Window Title

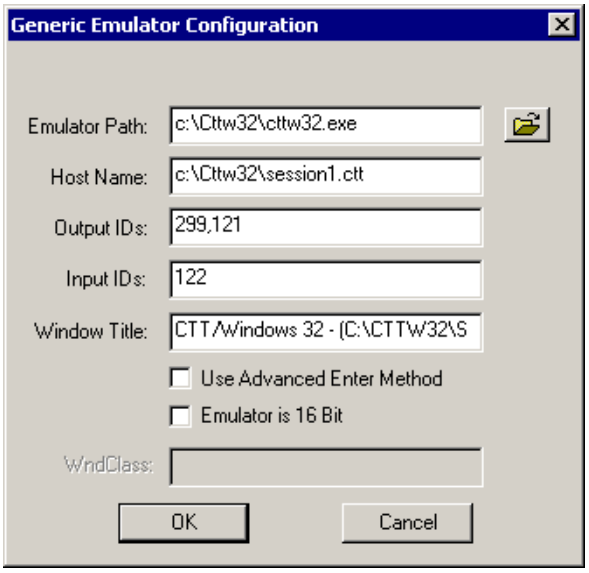
  SmarTerm - [*session name*]

Script

```
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Tandem 6530

Generic Configuration



- Emulator Path

  The path to the cttw32.exe.

- Host Name

  The session file of the host that you want to connect to.

- Output IDs

  299,121

- Input IDs

  122

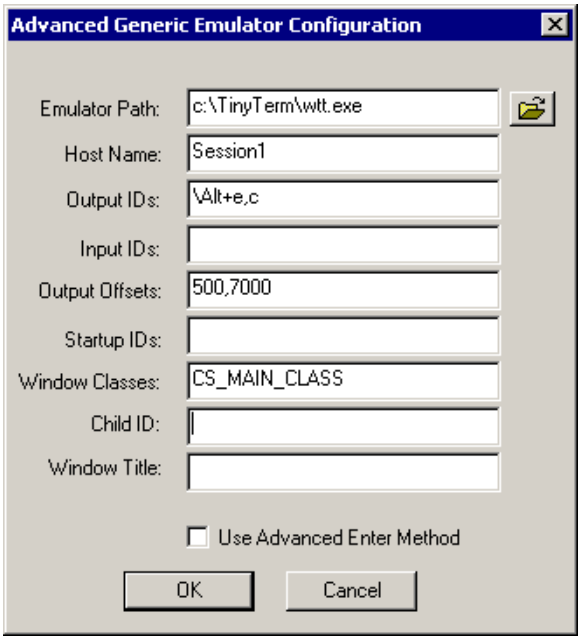
- Window Title

  The title that the emulator window displays when the emulator is launched and connected to the host.

Script

```
WaitForText "ogin:"
Type $Username
Type \N
WaitForText "assword:"
Type $Password
Type \N
```

Advanced Generic Configuration



- Emulator Path

  The path to the wtt.exe file.
- Host Name

  The name of the emulator session that you want to connect to.
- Output IDs

  \Alt+e,c
- Output Offsets

  500,7000
- Window Class

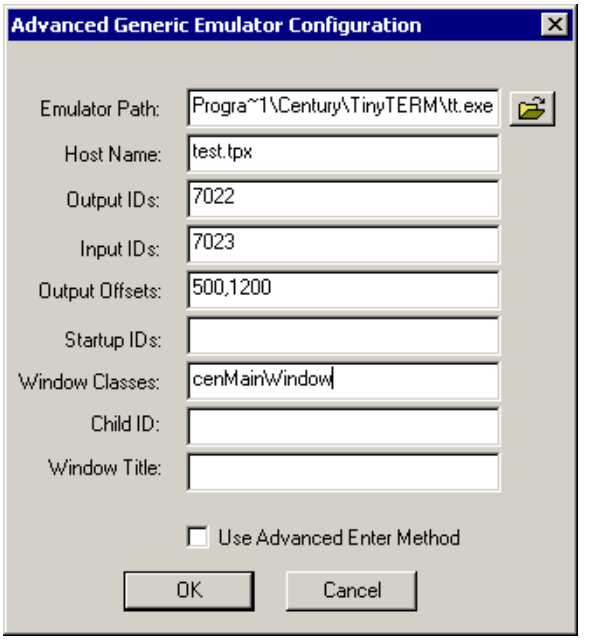
  CS_MAIN_CLASS

Script

```
WaitForText "ogin"
Type $Username
Type \N
WaitForText "assword"
Type $Password
Type \N
```

TinyTerm 4.21

Advanced Generic Configuration



- Emulator Path

  The path to the tt.exe file. This path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  The session file of the host that you want to connect to.

- Output IDs

  7022

- Input IDs

  7023

- Output Offsets

  500,12000

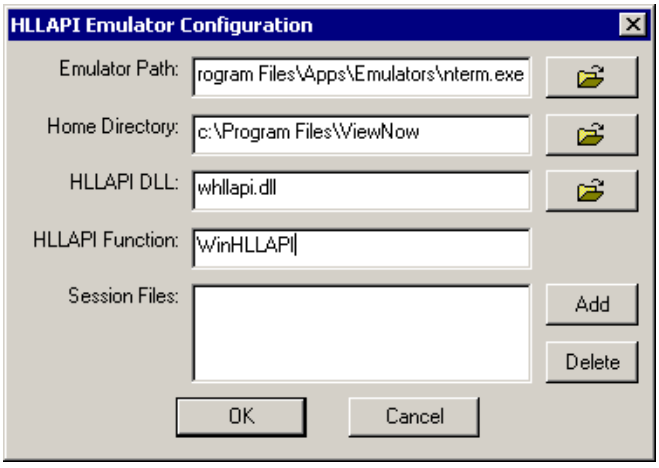
- Window Classes

  cenMainWindow

Script

```
WaitForText "ogin"
Type $Username
Type @E
WaitForText "assword"
Type $Password
Type @E
```

WinHLLAPI Configuration



- Emulator Path

  The path to the nterm.exe file.

- Home Directory

  The home directory of the emulator.

- HLLAPI DLL

  The path to the whllapi.dll file.

- HLLAPI Function

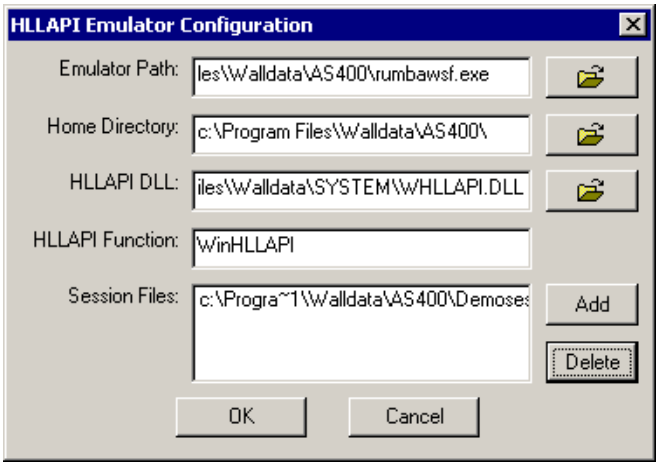
  WinHLLAPI

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Walldata Rumba 2000 v6.0

WinHLLAPI Configuration



- Emulator Path

  The path to the rumbawsf.exe file.
- Home Directory

  The home directory of the emulator.
- HLLAPI DLL

  The path to the WHLLAPI.DLL file.
- HLLAPI Function

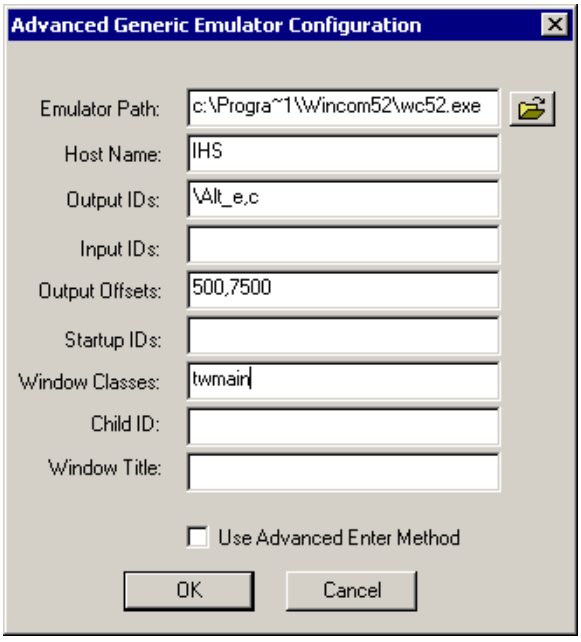
  WinHLLAPI
- Session Files

  The path to the session file you want to use.

Script

```
WaitForText "ogin:"
Type $Username
Type @E
WaitForText "assword:"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the wc52.exe file.
- Host Name

  The name of the emulator session that you want to connect to.
- Output IDs

  \Alt+e,c
- Output Offsets

  500,7500
- Window Classes

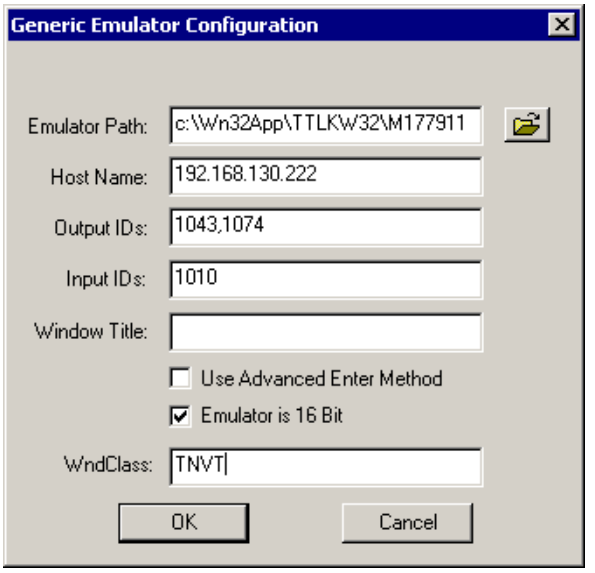
  twmain

Script

```
WaitForText "ogin"
Type $Username
Type @E
WaitForText "assword"
Type $Password
Type @E
```

Window Telnet VT TE v3.10

Generic Configuration



- Emulator Path

  The path to the emulator's executable file.
- Host Name

  The IP address of the host that you want to connect to.
- Output IDs

  1043,1074
- Output Offsets

  1010
- Emulator is 16 Bit

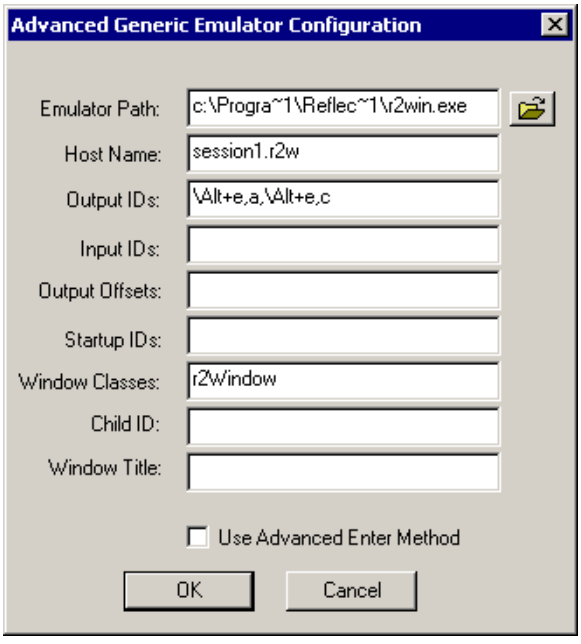
  Checked
- WndClass

  TNVT

Script

```
WaitForText "ogin"
Type $Username
Type @E
WaitForText "assword"
Type $Password
Type @E
```

Advanced Generic Configuration



- Emulator Path

  The path to the r2win.exe file. This path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  The session file of the host that you want to connect to.

- Output IDs

  \Alt+e,a,\Alt+e,c

- Window Classes

  r2Window

Script

```
Delay 1000
WaitForText "ogin"
Type $Username
Type \N
WaitForText "assword"
Type $Password
Type \N
```

3 Single Sign-On for Hummingbird HostExplorer 7

This section can help you enable Hummingbird HostExplorer* 7 for single sign-on through Novell® SecureLogin.

Hummingbird HostExplorer 7 is not a standard Terminal Launcher configuration. It doesn't use Terminal Launcher at all. This example uses HostExplorer's internal macro capabilities to trigger SecureLogin actions.

Setting Up Hummingbird HostExplorer 7

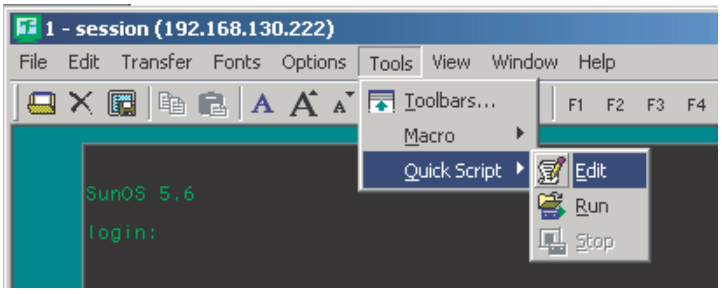
This section provides information on the following:

- "Creating the Emulator Macro Script" on page 55
- "Creating a SecureLogin Script" on page 64
- "Enabling Hummingbird HostExplorer for Single Sign-On" on page 67

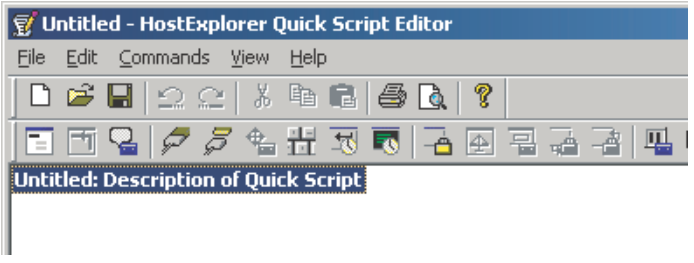
Creating the Emulator Macro Script

1 Create and configure a session in the emulator for your environment, then open the session.

2 Click Tools > Quick Script > Edit.

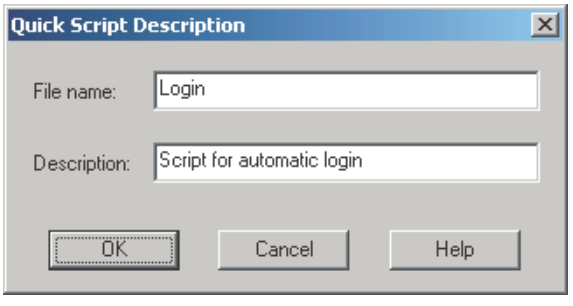


3 Double-click Untitled: Description of Quick Script.



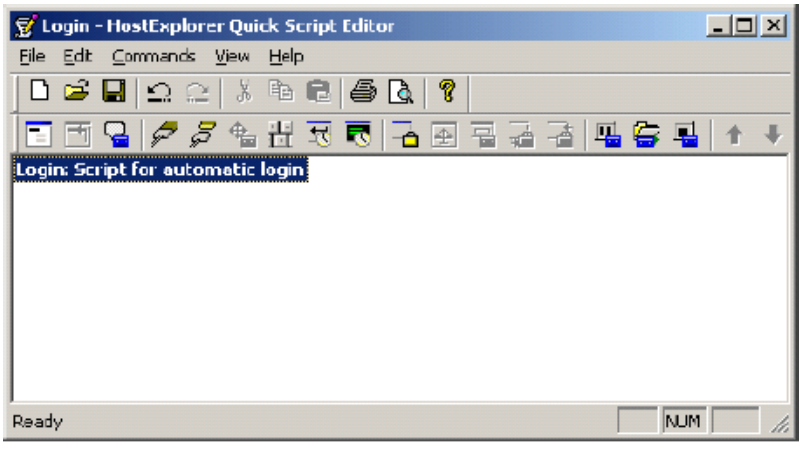
4 Type a filename and description for the Quick Script, then click OK.

Ensure that the filename is only one word (no spaces).

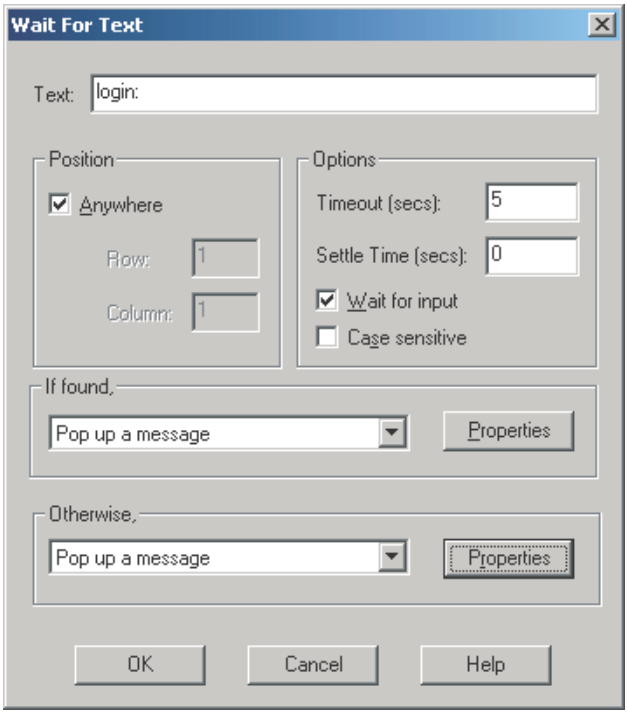


Configuring Hummingbird HostExplorer for Usernames

1 In the Login dialog box, click Commands > Wait For Text.

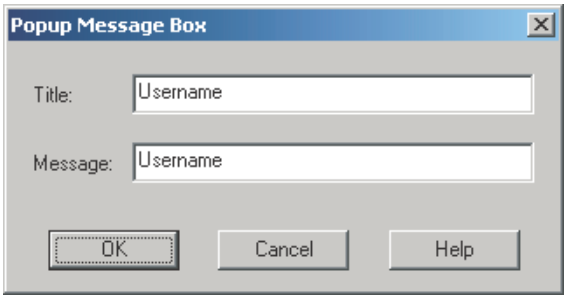


2 Configure the Wait For Text dialog box for username prompts, then click OK.

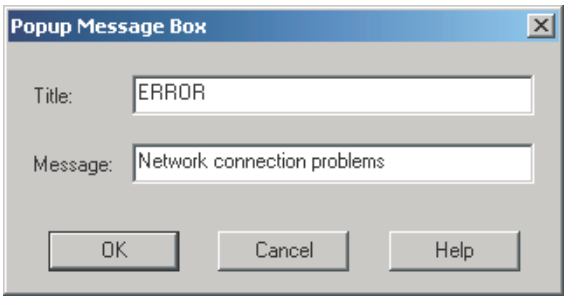


- In the Text text box, type the text that the server displays when it prompts for a username.
- Check the Anywhere check box.
- Type a timeout period.

  We recommend a setting of five seconds.
- From the If Found drop-down list, select Pop Up a Message
- From the Otherwise drop-down list, select Pop Up a Message.
- In the If Found pane, click Properties, configure the Popup Message Box window, then click OK.



  - Type Username in the Title text box.
  - Type Username in the Message text box.
- In the Otherwise pane, click Properties, configure the error box, then click OK.



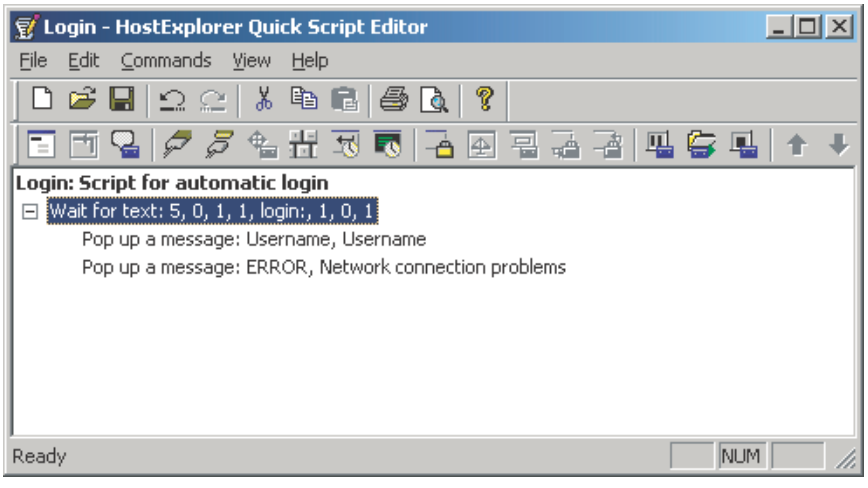
This is the message that is displayed if the prompt text isn't found within the set timeout period.

In the Title text box, type a title for the error dialog box.

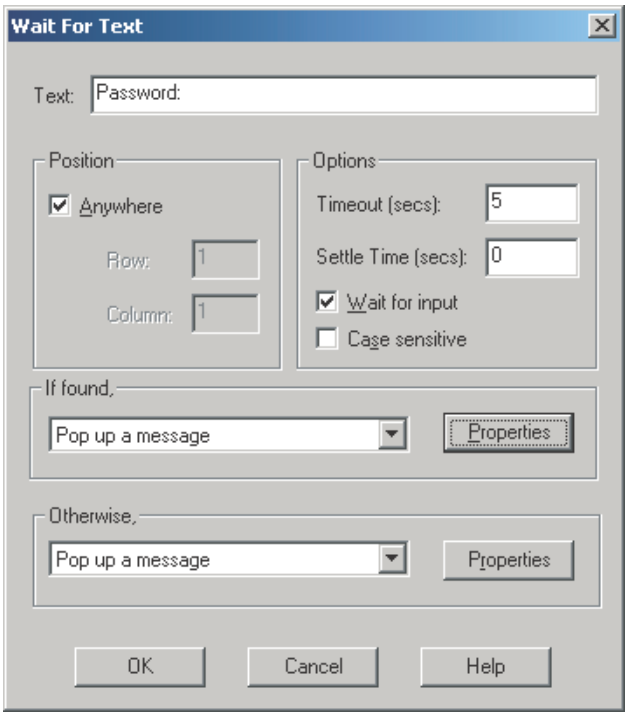
Type a message in the Message text box.

Configuring Hummingbird HostExplorer for Passwords

1 In the Login dialog box, click Commands > Wait For Text.

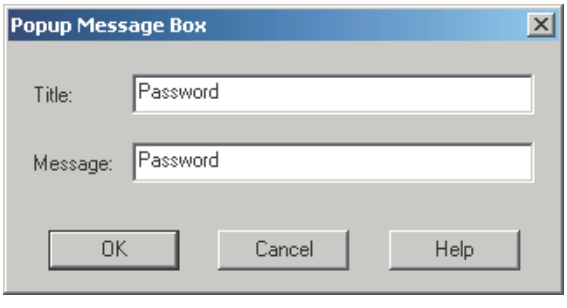


2 Configure the Wait For Text dialog box for password prompts, then click OK.

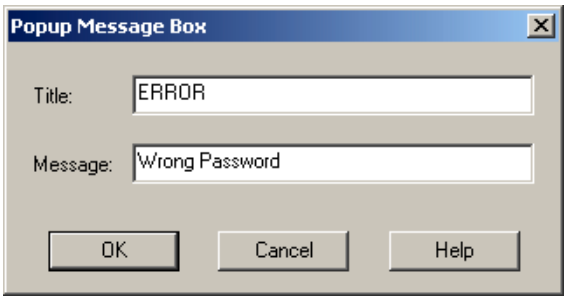


- In the Text text box, type the text that the server displays when it prompts for the password.
- Check the Anywhere check box.
- Type a timeout period.

  We recommend a setting of five seconds.
- In the If Found pane, select Pop Up a Message from the drop-down list.
- In the Otherwise pane, select Pop Up a Message from the drop-down list.
- In the If Found pane, click Properties, configure the Popup Message Box dialog box, then click OK.



  - Type Password as the title.
  - Type Password as the message.
- In the Otherwise pane, click Properties, configure the error box, then click OK.

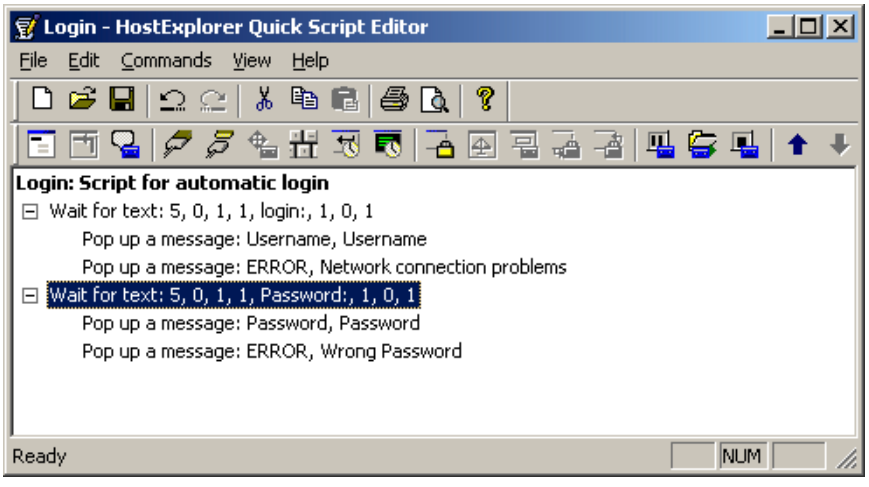


This is the message that is displayed if the prompt text isn't found within the set timeout period.

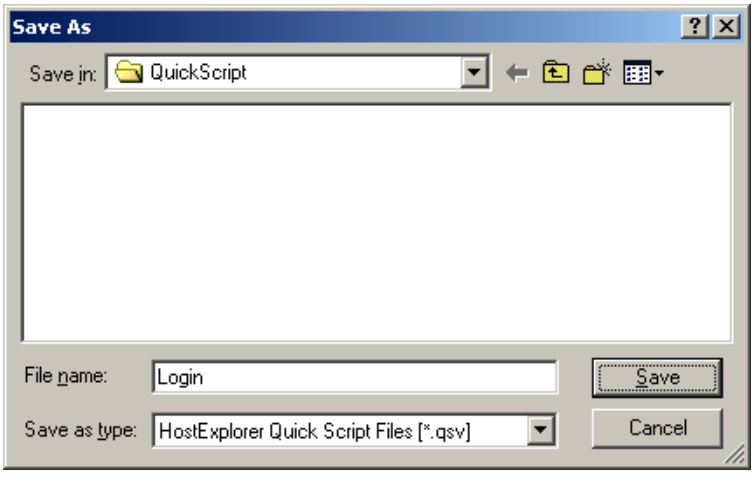
In the Title text box, type a title for the error dialog box.

Type a message in the Message text box.

3 At the Login dialog box, click File > Save As.

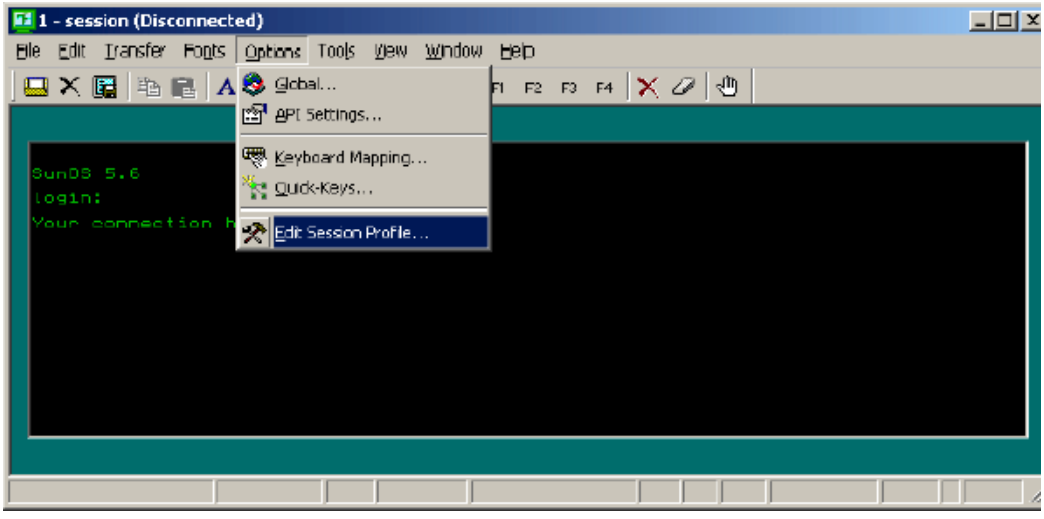


4 Type Login as the filename, click Save, then close the Quick Script editor.



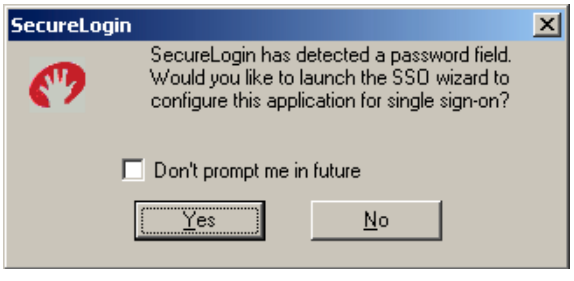
The macro is now complete.

1 Click Options > Edit Session Profile.



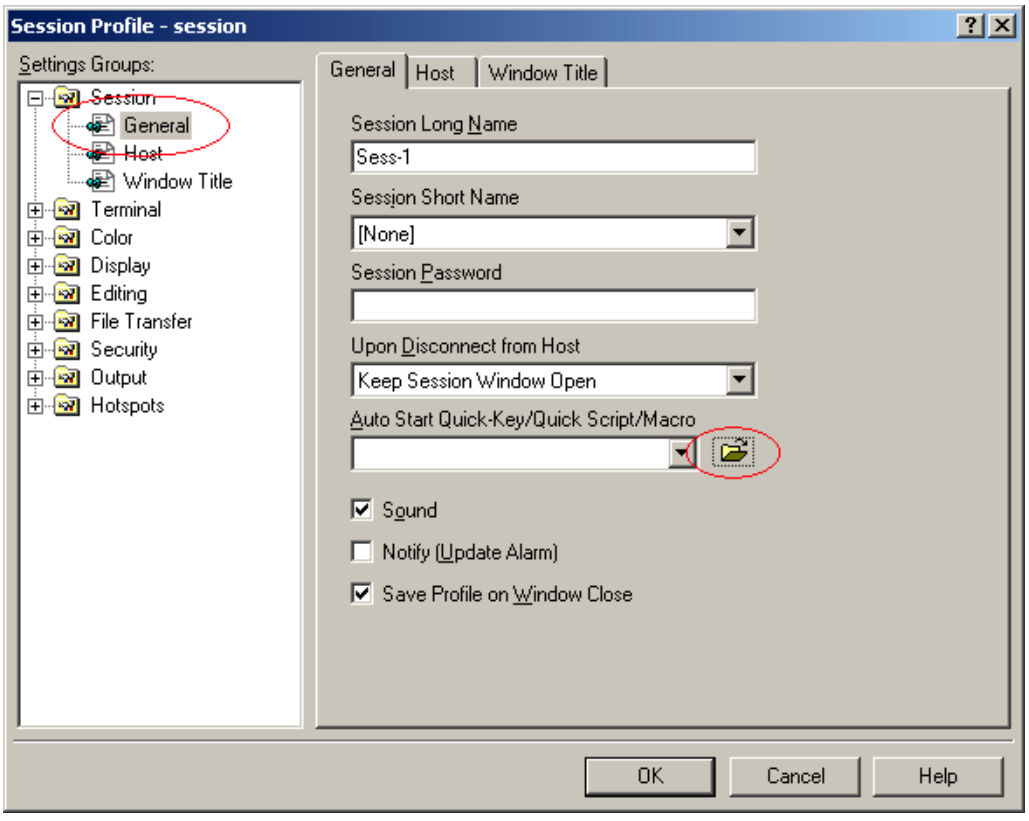
2 (Conditional) Select not to use the SecureLogin wizard at this time.

If SecureLogin prompts you to run the SecureLogin wizard, check the Don't Prompt Me In the Future check box, then click No.



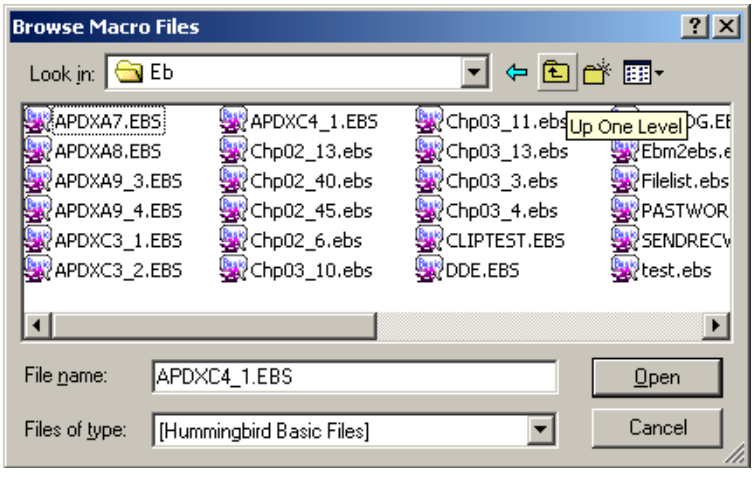
3 Expand the session in the Settings Groups panel.

Click General in the Settings Groups panel, then click the Browse button next to the Auto Start Quick-Key drop-down list.



4 Browse to where you saved the Quick Script macro file, then click Open.

The default path is c:\Documents and Settings\All Users\Application Data \Hummingbird\Connectivity \7.10\HostEx\QuickScript\Login.qsv.



5 Click OK, then close the emulator.

6 Open the session again.

You can use the shortcuts on the Start menu, then follow the prompts, or create a shortcut directly to the session.

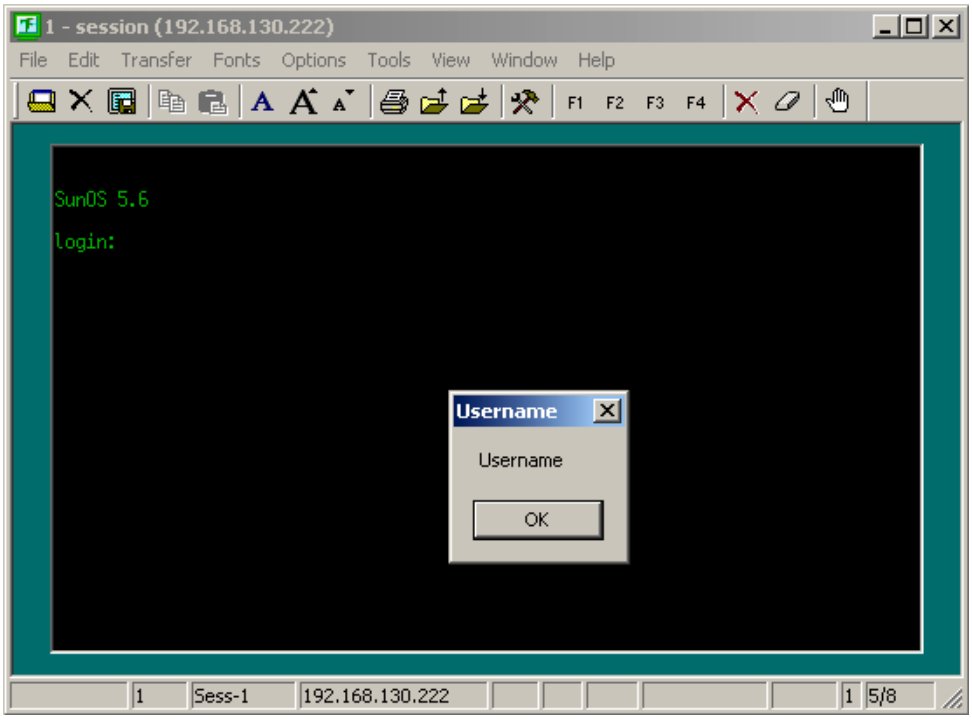
To create a shortcut directly to the session, use the following format:

```
"Path to hostex32.exe" -P Session name
```

For example, type

```
"C:\Progra~1\Hummingbird\hostex32.exe" -P Session1
```

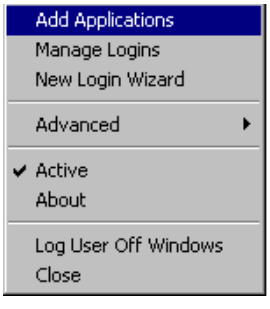
The emulator connects and displays the following dialog box.



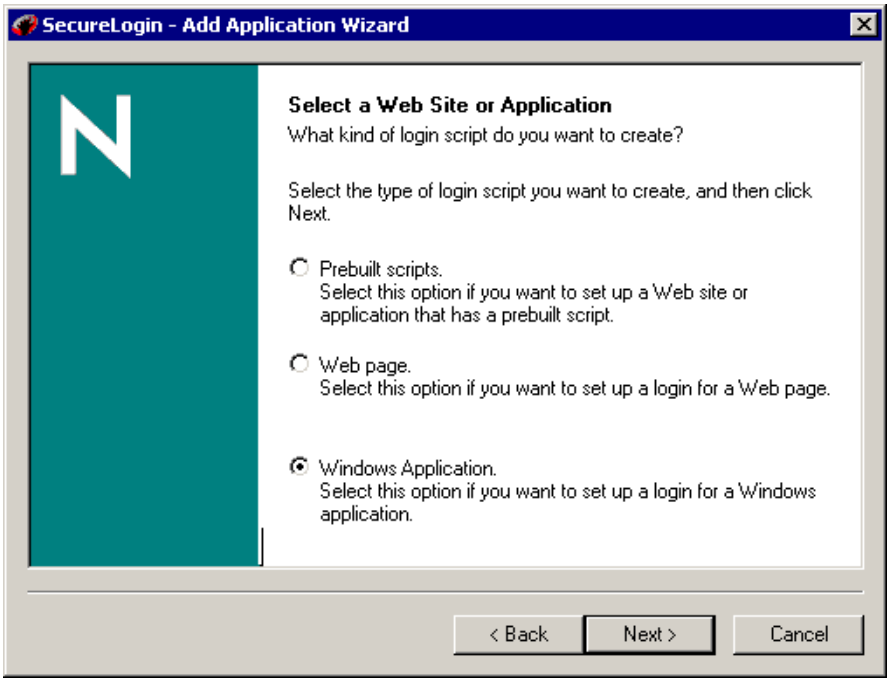
IMPORTANT: Don't click OK.

Creating a SecureLogin Script

1. Right-click the SecureLogin icon on the system tray, then click Add Applications.

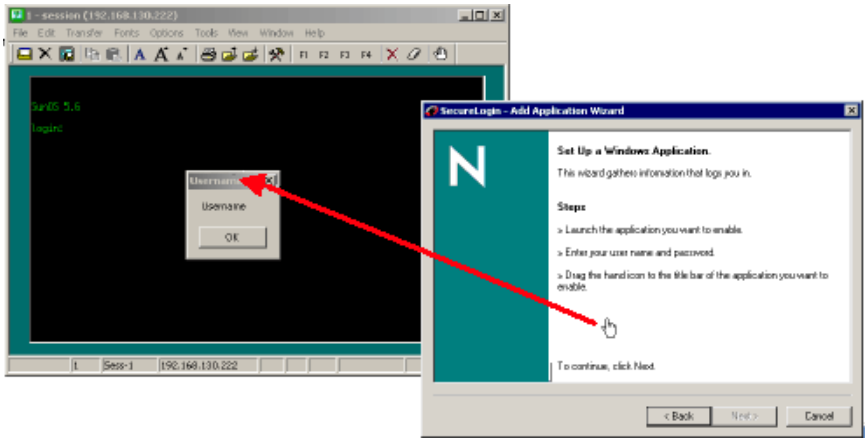


2. Click next until you reach the Select a Web Site or Application dialog box.

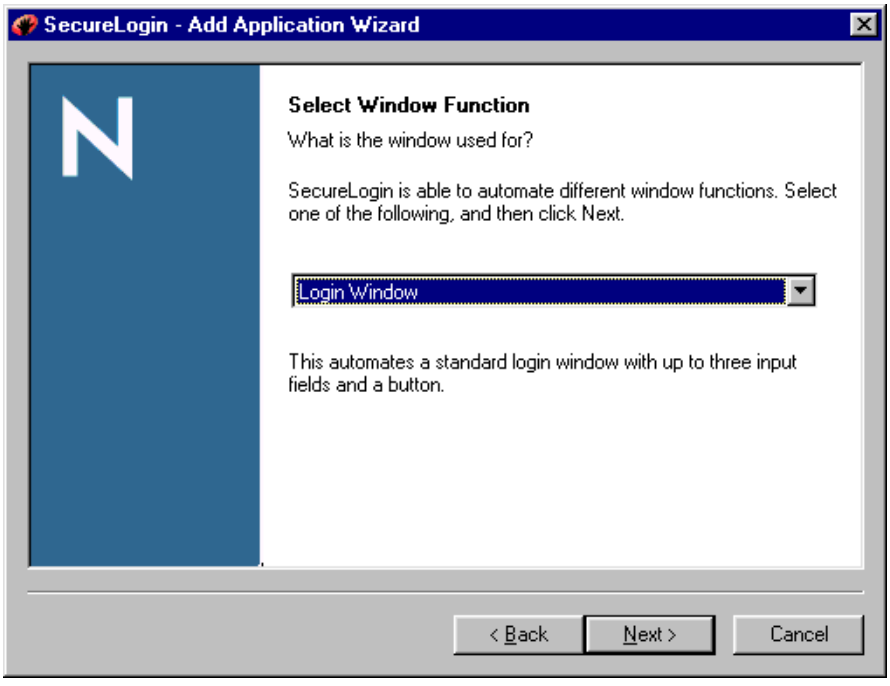


3 Select Windows Application, then click Next.

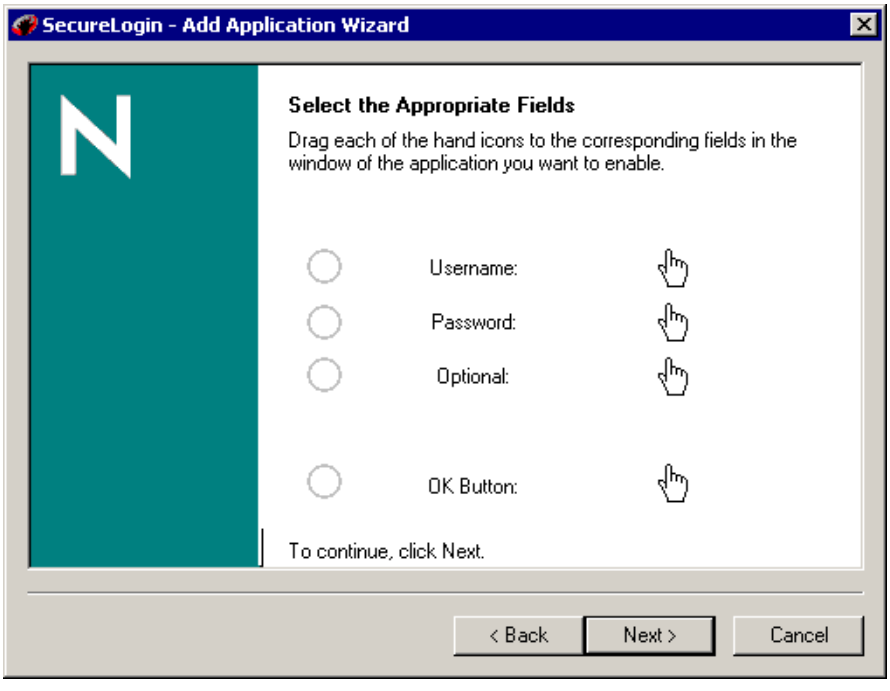
4 Drag the hand icon and drop it onto the title bar of the Username dialog box.



5 In the Select Window Function dialog box, select Login Window from the drop-down list, then click Next.



6 Select the login fields.

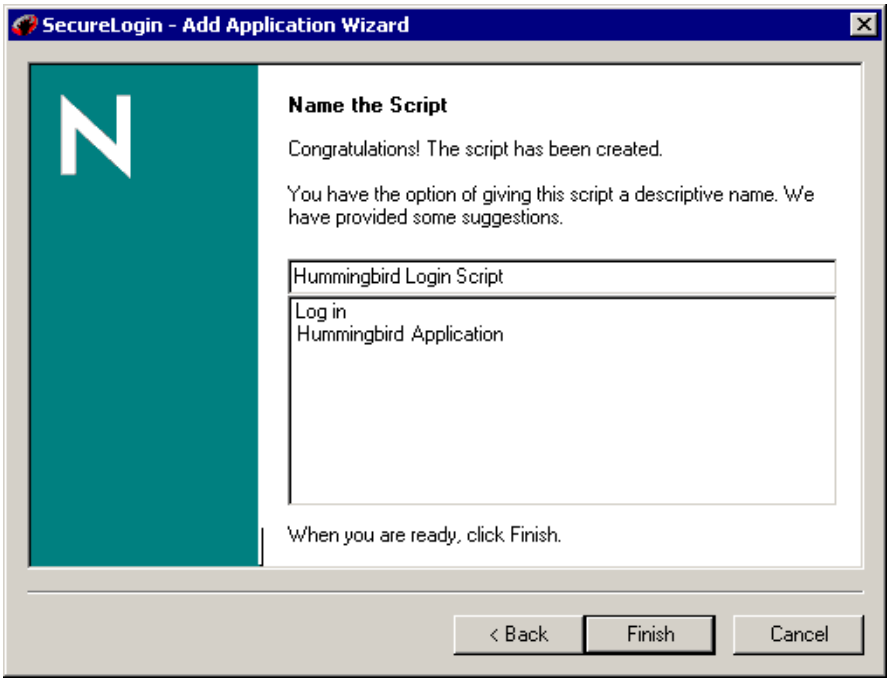


6a Drag the hand icons and drop them onto the Username, Password, and (if appropriate) Optional fields.

6b Drag the hand icon for the OK Button and drop it onto the login button (for example OK, Next, or Continue).

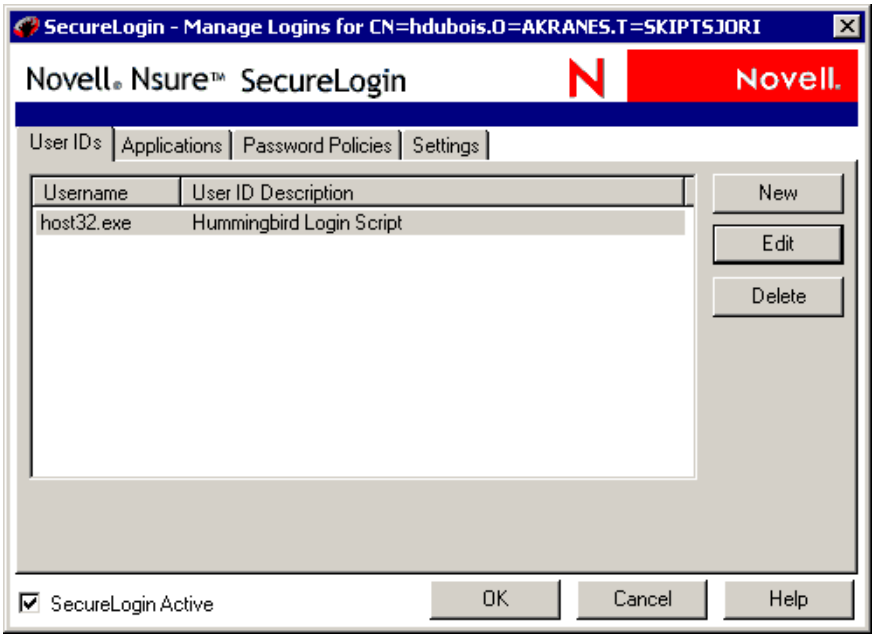
7 Click Next, confirm login details, then click Next again.

8 In the Name the Script dialog box, type a name, then click Finish.

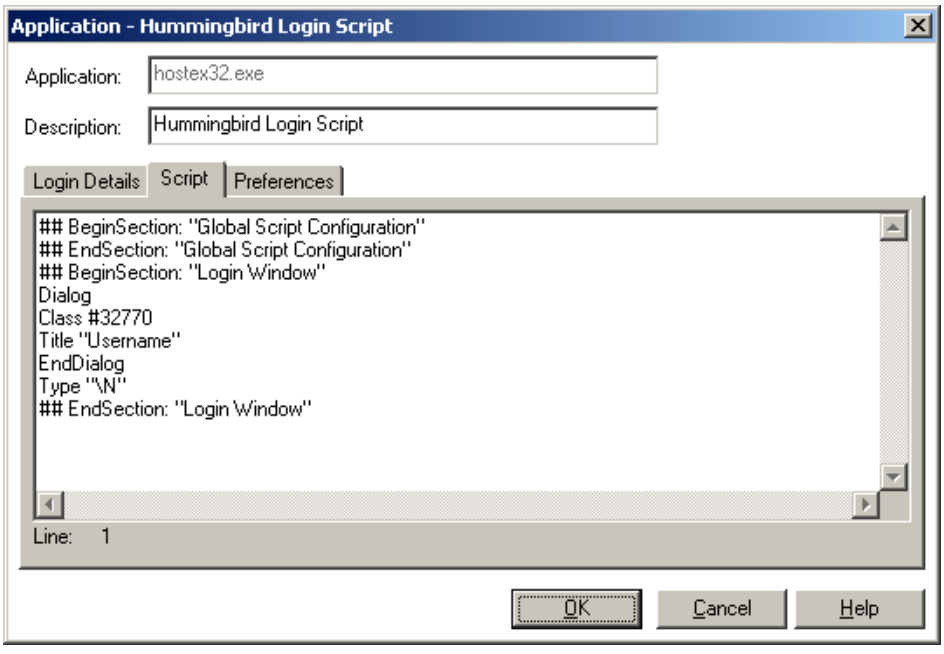


Enabling Hummingbird HostExplorer for Single Sign-On

1. Right-click the SecureLogin icon on the system tray, then click Manage Logins.
2. Select hostex32.exe from the User IDs list, then click Edit.



3. Click Script, then edit the script.



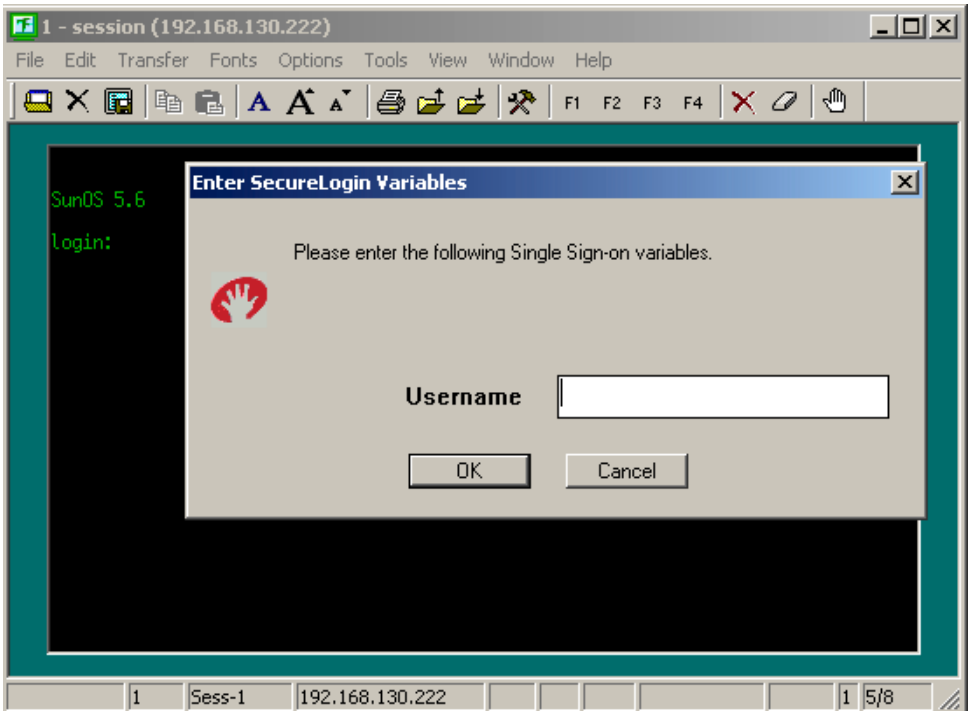
Replace the displayed script with the following script:

```
Dialog
 Class #32770
 Title "Username"
EndDialog

Click #2

Delay 50
Type -raw $Username
Type -raw \N

Dialog
 Class #32770
 Title "Password"
EndDialog

Click #2

Delay 50
Type -raw $Password
Type -raw \N
```

4 Click OK twice, then close SecureLogin.

Testing the Configuration

1 Start the emulator session, type your username, then click OK.

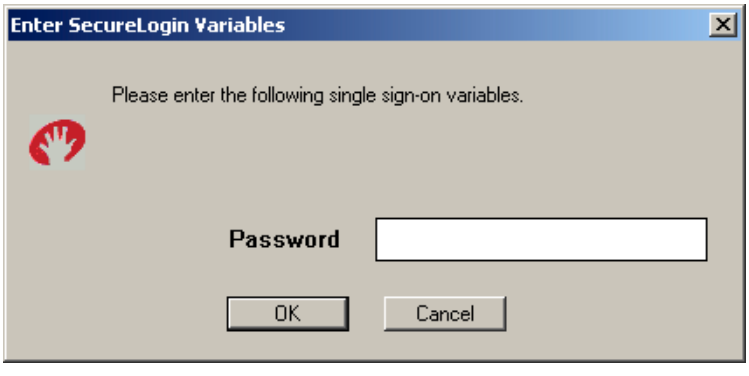


2 (Conditional) Respond to error messages.

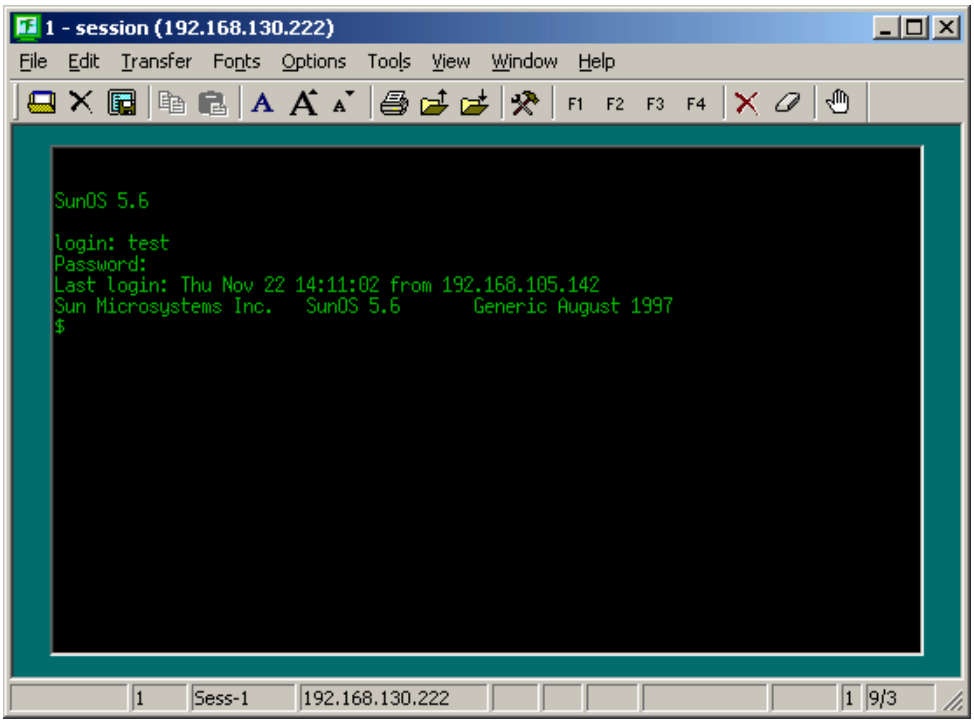
Depending on the values that you entered for the Timeouts in the emulator macro, the error message might be displayed after you click OK.

If the error message is displayed, click OK to close the session, then restart the session. This might happen twice. To avoid the problem, raise the timeout value in the Macro settings, or enter the username and password more quickly.

3 Type the password, then click OK.



SecureLogin launches the emulator, enters your username and password, and logs you in to the session.

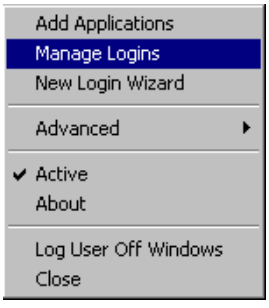

1 - session (192.168.130.222)
File Edit Transfer Fonts Options Tools View Window Help
F1 F2 F3 F4
SunOS 5.6
login: test
Password:
Last login: Thu Nov 22 14:11:02 from 192.168.105.142
Sun Microsystems Inc. SunOS 5.6 Generic August 1997
$
1
Sess-1
192.168.130.222
1
9/3

4 Single Sign-On for MS Windows XP Telnet

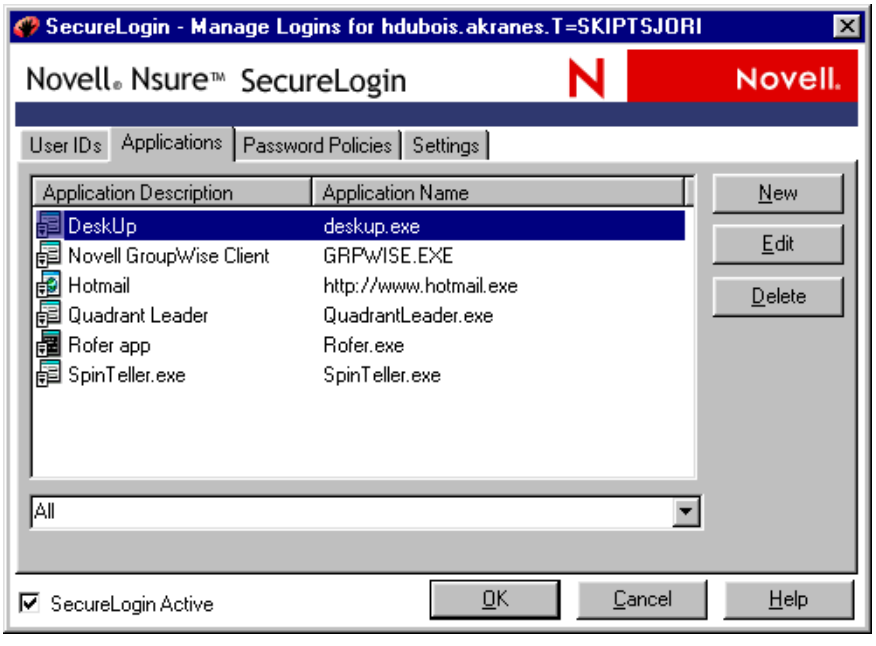
This section helps you enable MS Windows* XP Telnet for single sign-on through Novell® SecureLogin.

Creating a SecureLogin Script

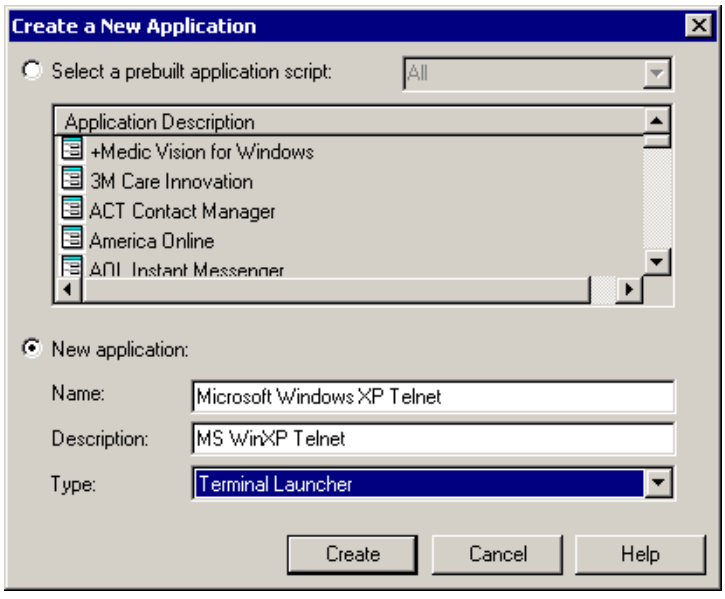
1 Right-click the SecureLogin icon on the system tray, then click Manage Logins.



2 Click Applications > New.



3 Click New Application, then type information in the text boxes.

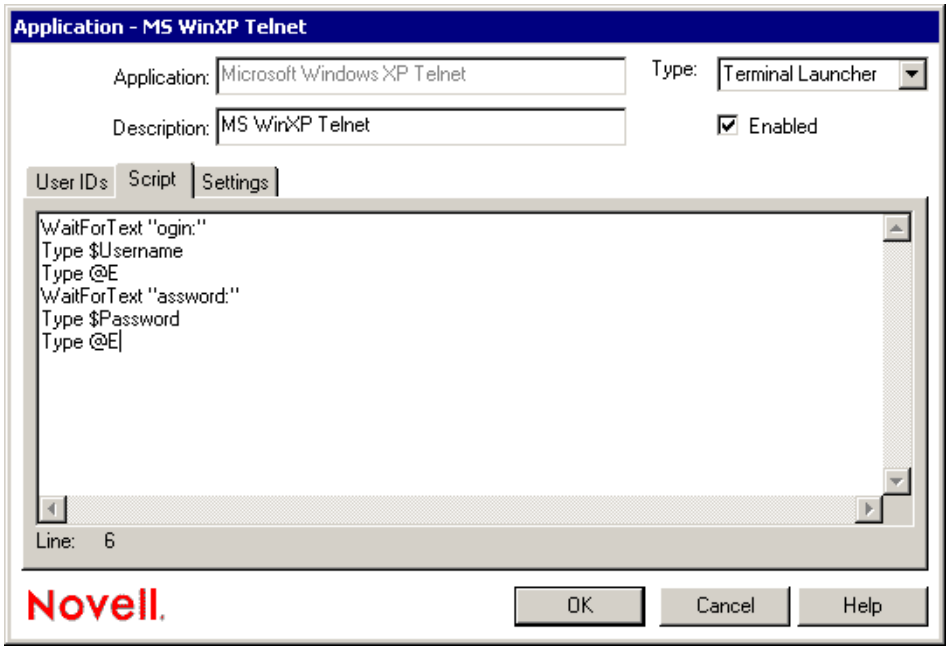


Type meaningful names in the Name and Description text boxes.

Select Terminal Launcher from the Type drop-down list.

4 Click Create.

5 Click the Script tab, then type the following script:



Parts of the SecureLogin scripting language are case sensitive. Omitting the "L" in “login” and the "P" in “password” allows the script to work regardless of whether the "L" and the "P" are displayed in uppercase or lowercase type. The script waits for the text "ogin". After the script detects the text "ogin", it enters the value of the variable $Username.

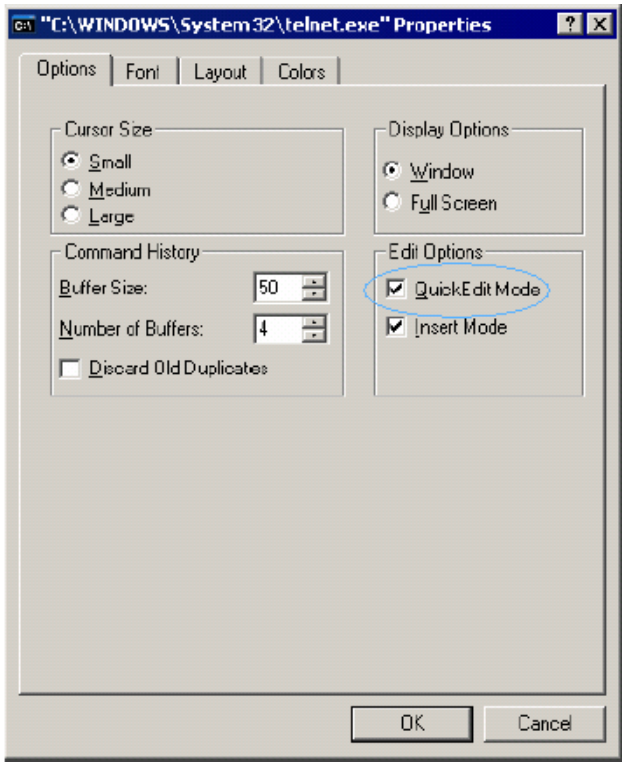
6 Click OK twice, then close SecureLogin.

Putting Telnet in Quick-Edit Mode

For SecureLogin to work with Microsoft Windows XP Telnet, the Telnet program must be in Quick Edit mode.

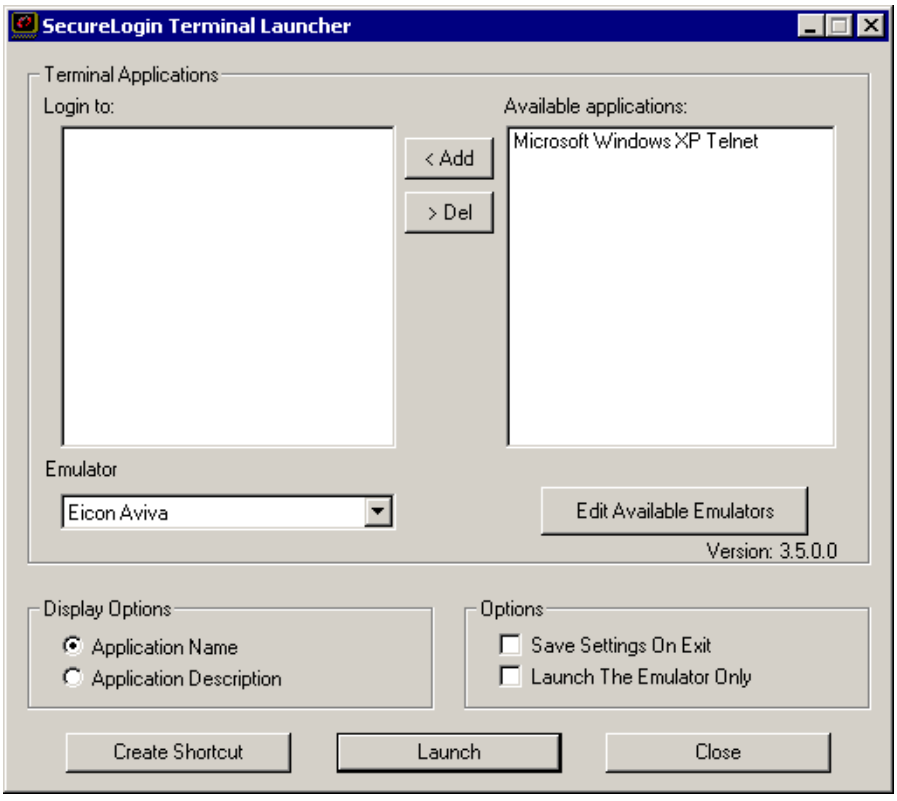
1. Start Microsoft Windows Telnet XP.
2. Click the Telnet icon at the top of the Telnet window, then select Properties.

3. Check the Quick Edit Mode check box, then click OK.

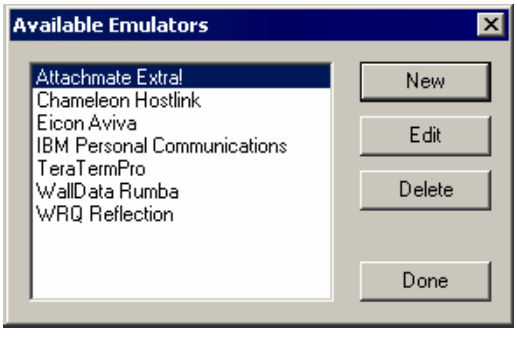


Configuring Terminal Launcher

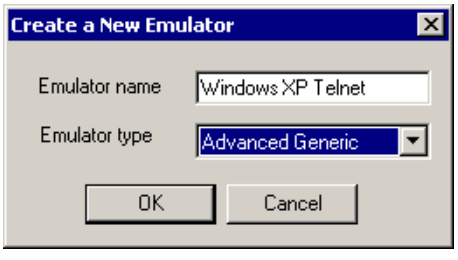
1 Run SecureLogin Terminal Launcher, then click Edit Available Emulators.



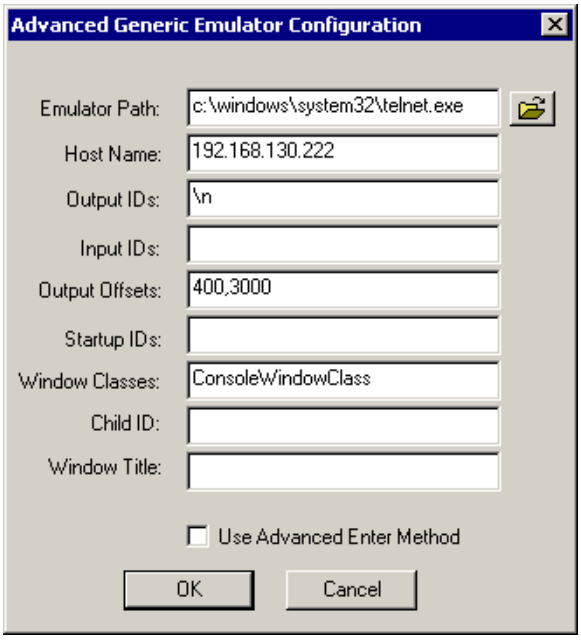
2 Click New.



3 Type a name for the emulator, select Advanced Generic as the emulator type, then click OK.



4 Configure the emulator:



- Emulator Path

  This is the path to the telnet.exe file.

- Host Name

  This is the IP address, host name, or session file of the host that you want to connect to.

- Output IDs

  \n

- Output Offsets

  400,3000

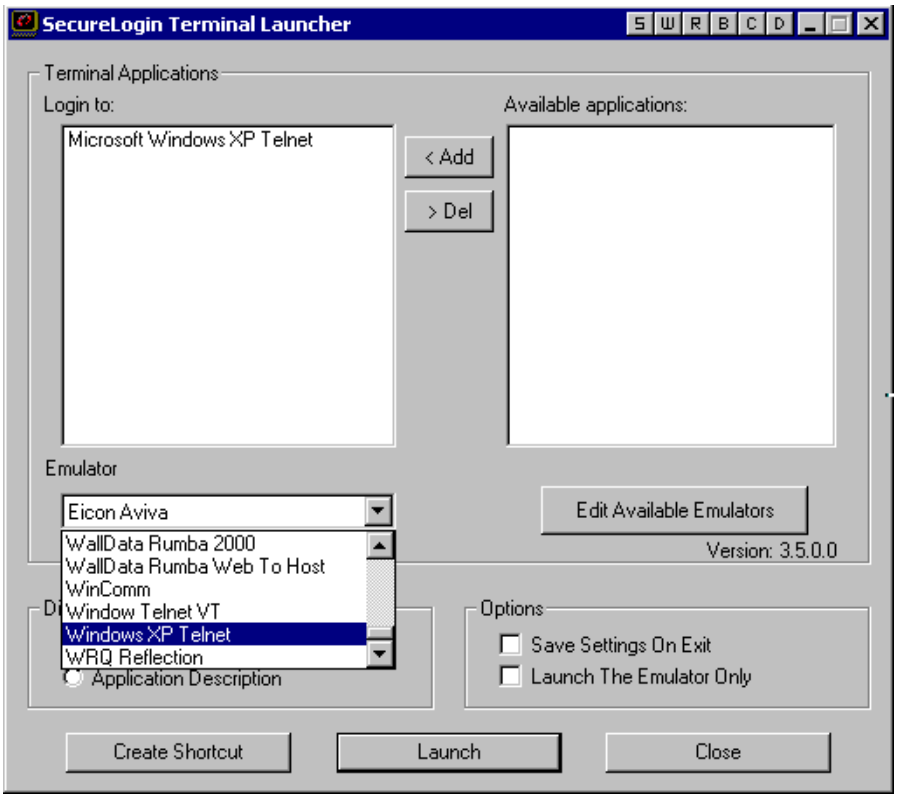
- Windows Classes

  ConsoleWindowClass

5 Click OK, then click Done.

Testing the Configuration

1 Double-click Windows XP Telnet in the Available Applications pane, select Windows XP Telnet from the Emulator drop-down list, then click Launch.



2 Enter login data.

The first time that the script is run, SecureLogin prompts you to type a username and password, then click OK.

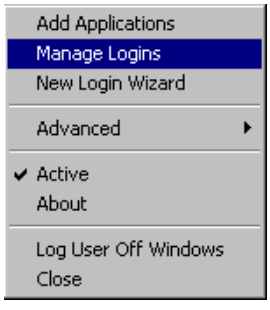
After you click OK, the emulator launches and you are logged in to the session.

5 Single Sign-On for PCXWare

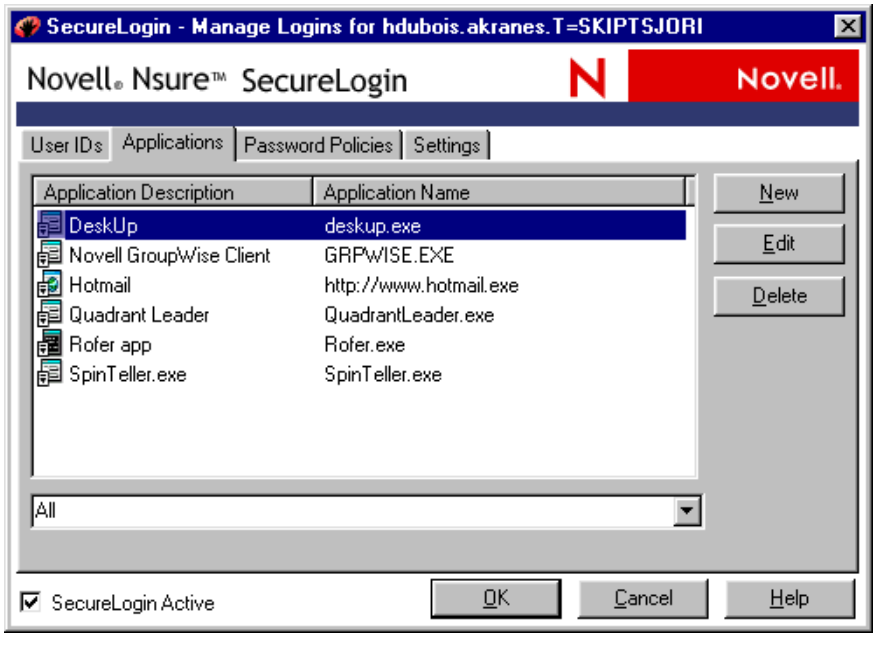
PCXWare is not a standard emulator configuration. It does not use Terminal Launcher at all. This configuration relies on SecureLogin to detect when the emulator is launched and then send information to it. Therefore, don't use WaitForText commands in the script. Instead, use Delay commands.

Creating a SecureLogin Script

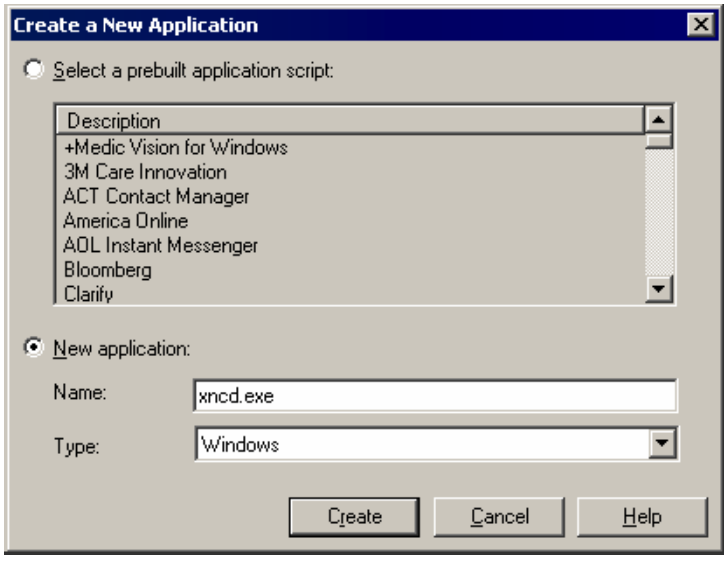
1 Right-click the SecureLogin icon on the system tray, then click Manage Logins.



2 Click Applications > New.



3 Click New Application, then type information in the text boxes.



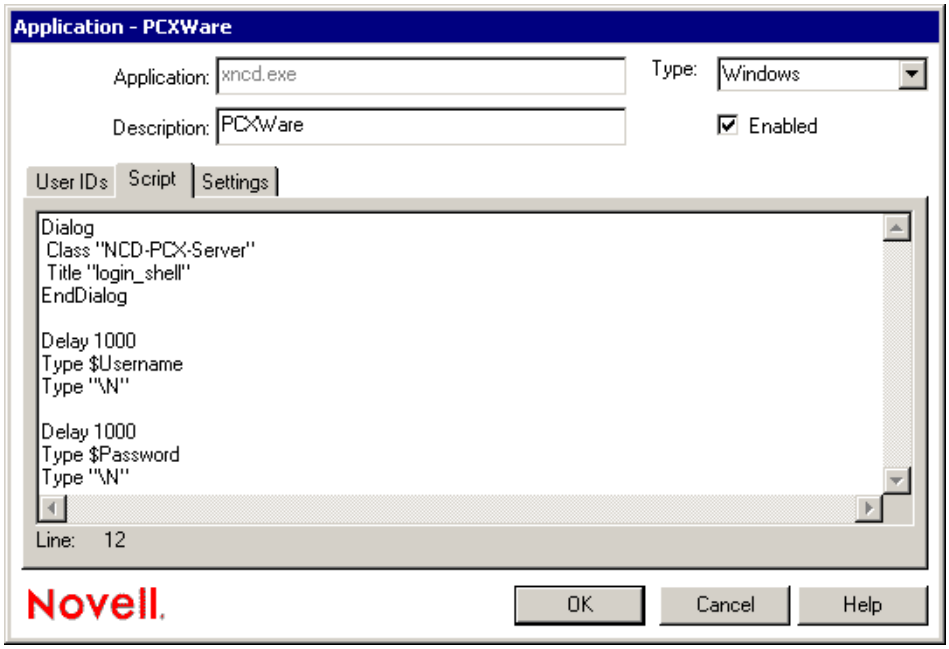
Type xncd.exe in the Name text box.

Type PCXWare in the Description text box.

Select Windows from the Type drop-down list.

4 Click Create.

5 Click the Script tab, then type the following script:



The Delay commands are dependent on how long it takes PCXWare to load or connect to your UNIX*/SUN* server. The parameter 1000 is equal to 1 second. You can increase or decrease the number.

6 Click OK twice, then close SecureLogin.

Running the Emulator

The first time that the script is run, SecureLogin prompts you to type a username and password, then click OK.

After you click OK, the emulator launches and you are logged in to the session.

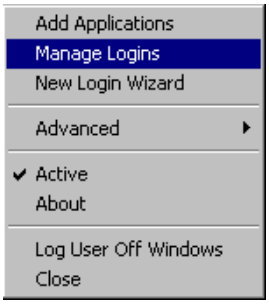
6 Single Sign-On for SmarTerm for IBM 3270

This section helps you enable the SmarTerm for IBM* 3270 emulator for single sign-on through Novell® SecureLogin.

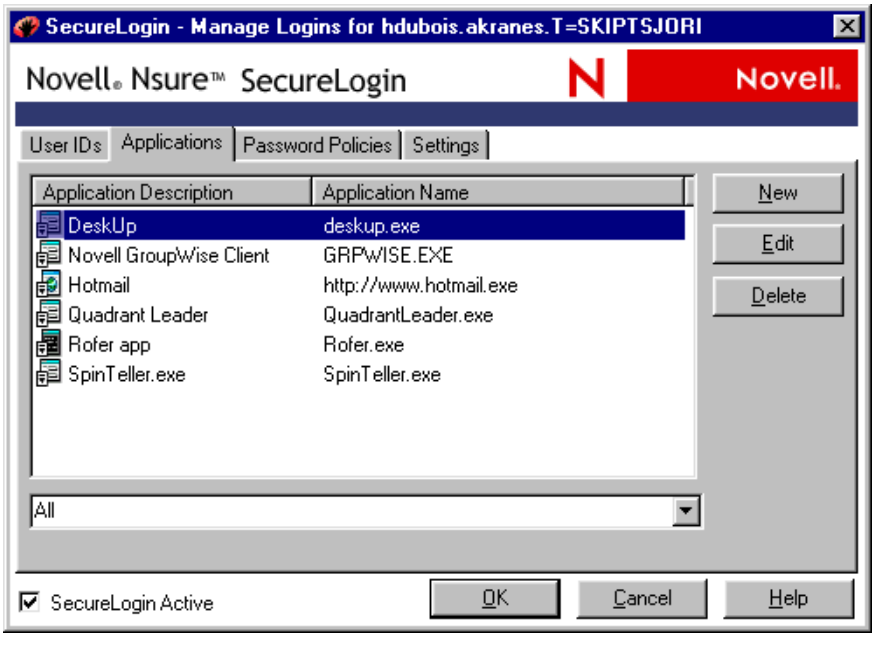
The configuration described in this section works only with SecureLogin v3.0.3 or later.

Creating a SecureLogin Script

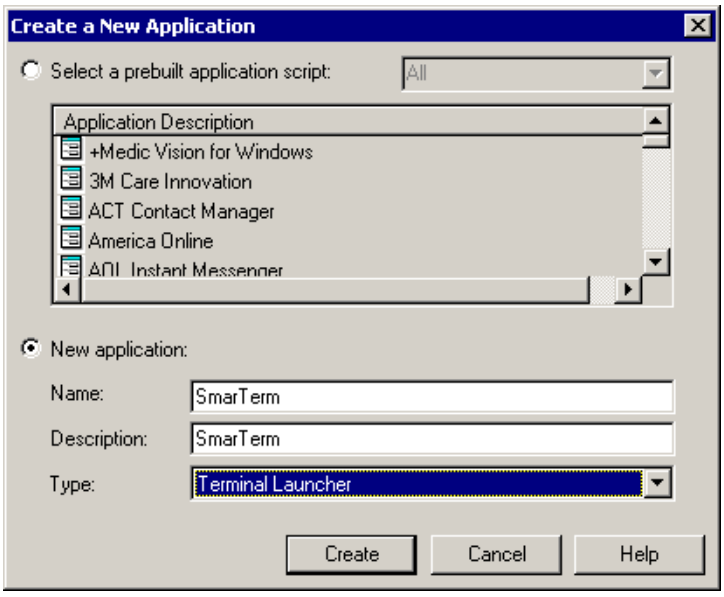
1 Right-click the SecureLogin icon on the system tray, then click Manage Logins.



2 Click Applications > New.



3 Click New Application, then type information in the text boxes.

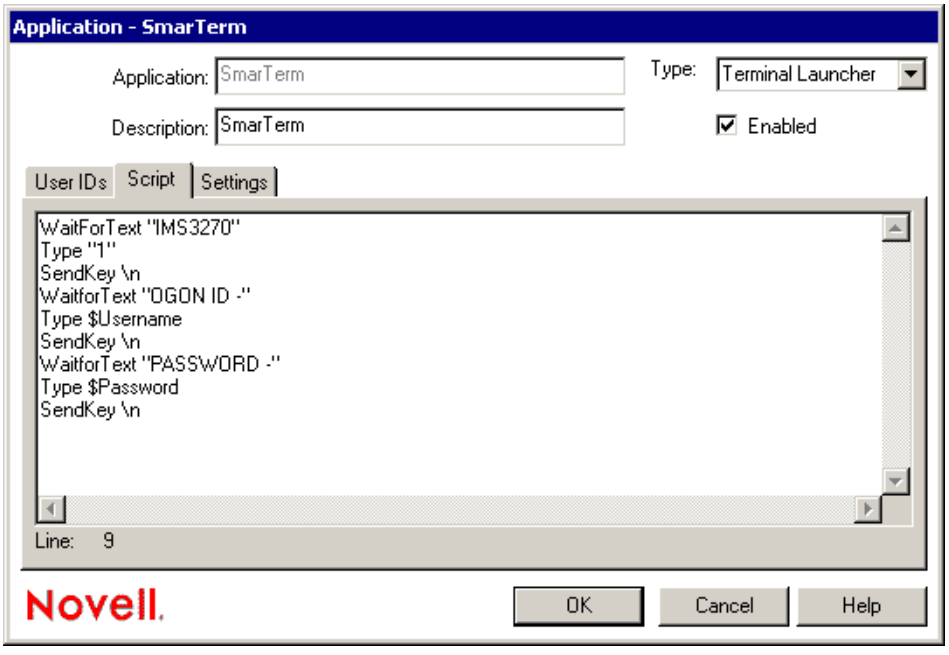


Type meaningful names in the Name and Description text boxes.

Select Terminal Launcher from the Type drop-down list.

4 Click Create.

5 Click the Script tab, then type the following script:

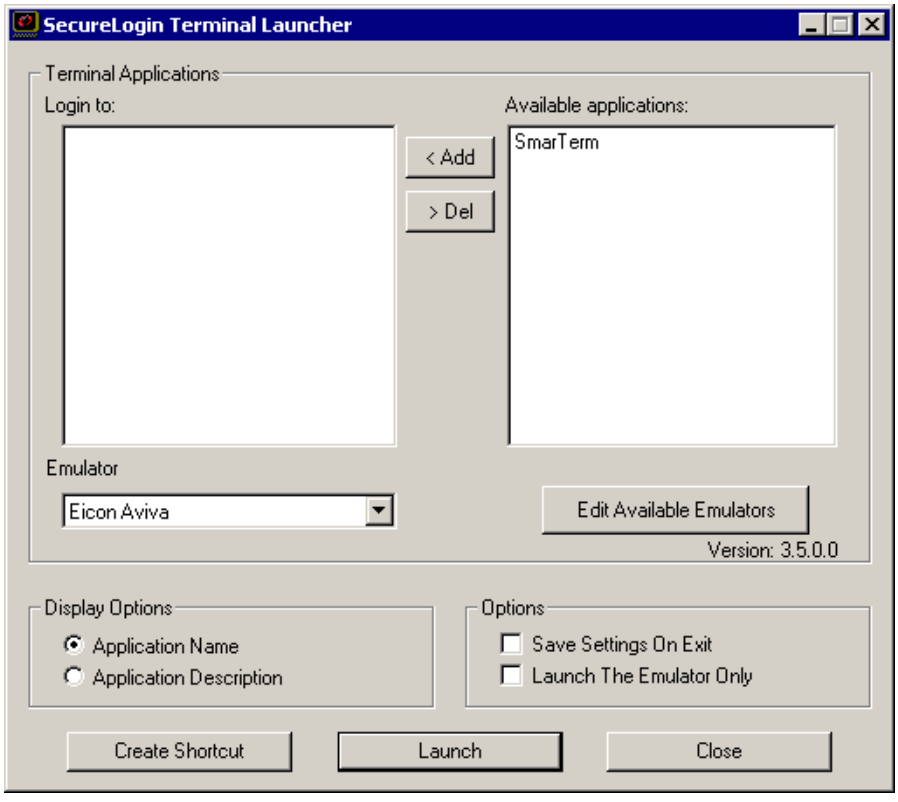


Parts of the SecureLogin scripting language are case sensitive. Omitting the "L" in “login” and the "P" in “password” allows the script to work regardless of whether the "L" and the "P" are displayed in uppercase or lowercase type. The script waits for the text "ogin". The script detects the text "ogin", then enters the value of the variable $Username.

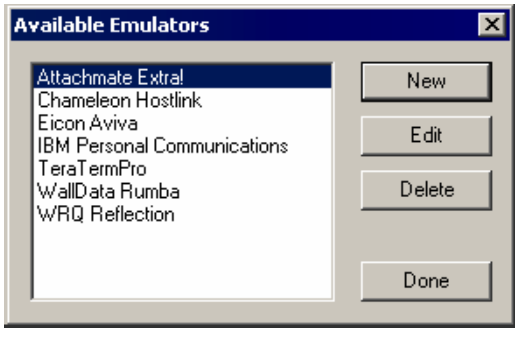
6 Click OK twice, then close SecureLogin.

Configuring Terminal Launcher

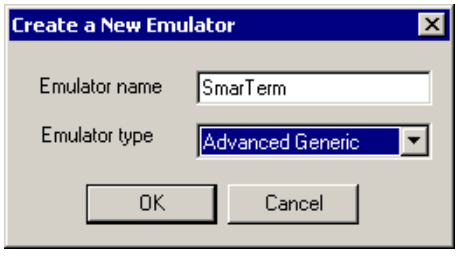
1 Run SecureLogin Terminal Launcher, then click Edit Available Emulators.



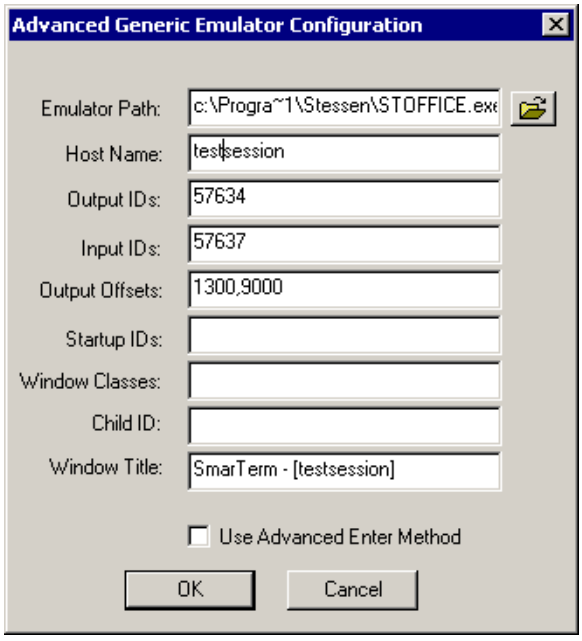
2 Click New.



3 Type a name for the emulator, select Advanced Generic as the emulator type, then click OK.



4 Configure the emulator:



- Emulator Path

  This is the path to the stoffice.exe file. This path must follow the 8.3 filename format (for example, c:\Progra~1\ instead of c:\Program Files\).

- Host Name

  This is the session file of the host that you want to connect to.

- Output IDs

  57634

- Input IDs

  57637

- Output Offsets

  1300,9000

- Windows Title

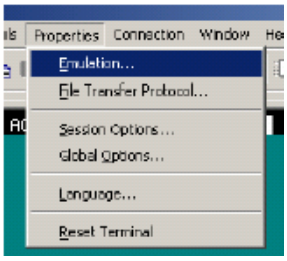
  SmarTerm - [*session name*]

5 Click OK, then click Done.

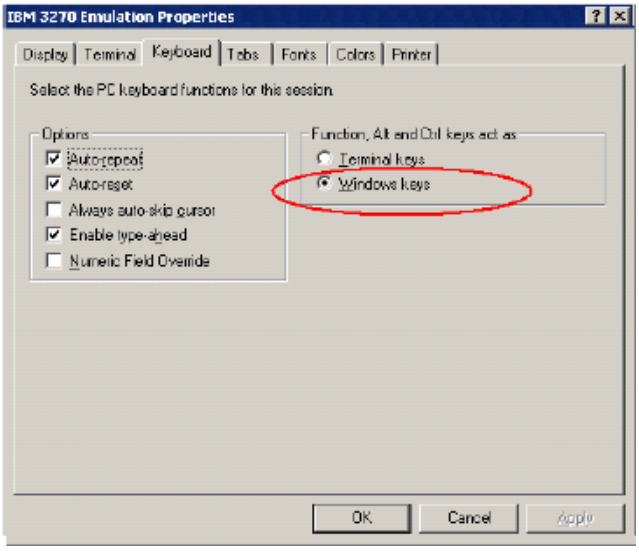
Configure the Emulator Settings

1 Start the emulator.

2 Select Properties > Emulation.



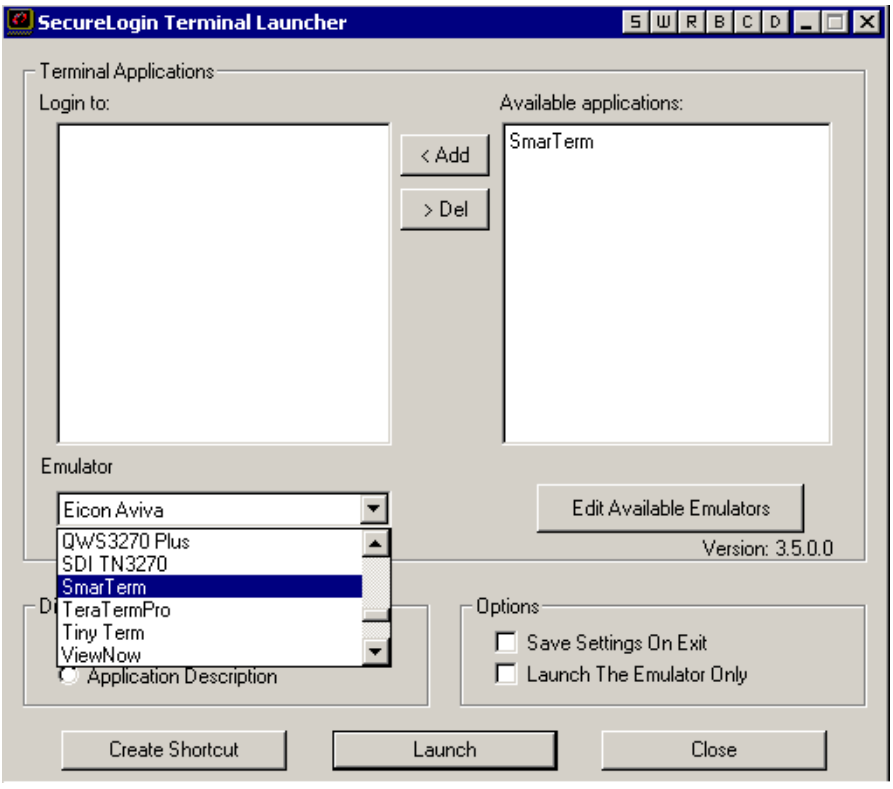
3 In the Function, Alt and Ctrl Keys Act As pane, select the Windows Keys option.



4 Click OK, then close the emulator.

Testing the Configuration

1 Double-click SmarTerm in the Available Applications pane, select SmarTerm from the Emulator drop-down list, then click Launch.



2 Enter login data.

The first time that the script is run, SecureLogin prompts you to type a username and password, then click OK.

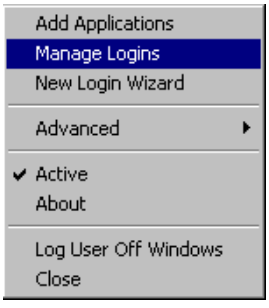
After you click OK, the emulator launches and you are logged in to the session.

7 Single Sign-On for WRQ Reflection v10

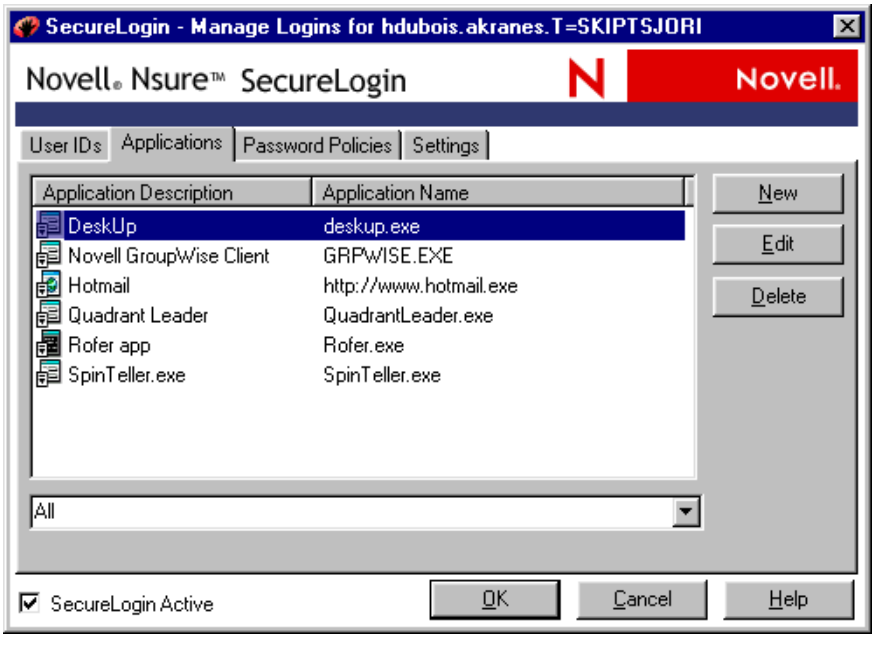
This section helps you enable WRQ Reflection* v10 for single sign-on through Novell® SecureLogin.

Creating a SecureLogin Script

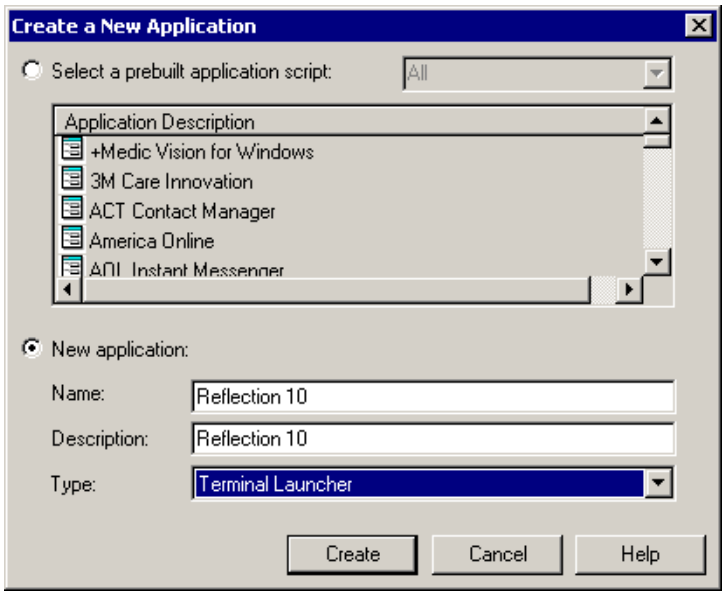
1 Right-click the SecureLogin icon on the system tray, then click Manage Logins.



2 Click Applications > New.



3 Select New Application, then type information in the text boxes.

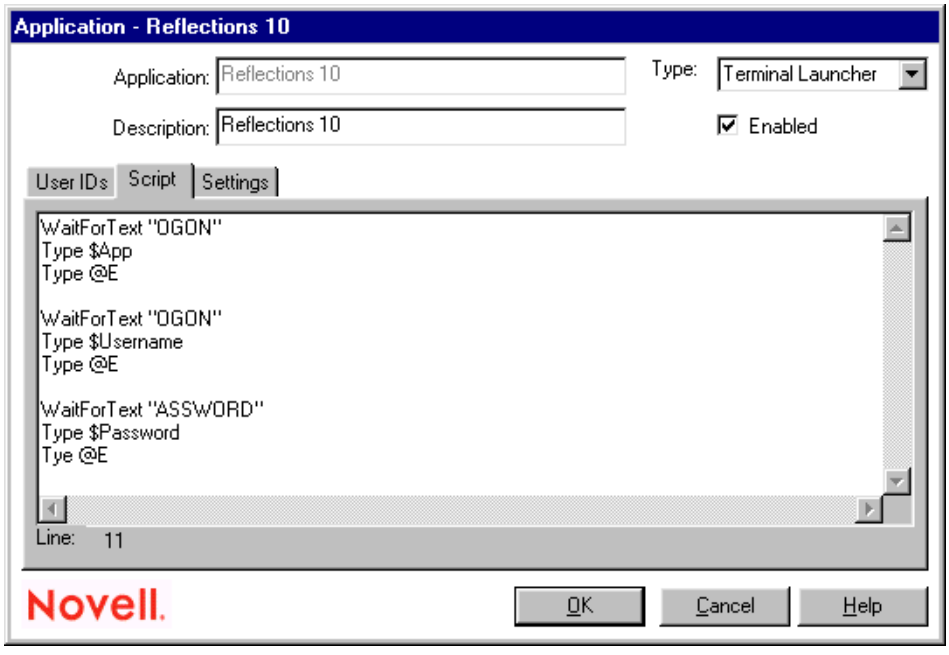


Type meaningful names in the Name and Description text boxes.

Select Terminal Launcher from the Type drop-down list.

4 Click Create.

5 Click the Script tab, then type the following script:



Parts of the SecureLogin scripting language are case sensitive. Omitting the "L" in “login” and the "P" in “password” allows the script to work regardless of whether the "L" and the "P" are displayed in uppercase or lowercase type. The script waits for the text "ogin". The script detects the text "ogin", then enters the value of the variable $Username.

6 Click OK twice, then close SecureLogin.

Creating and Configuring a Reflection 10 Session File

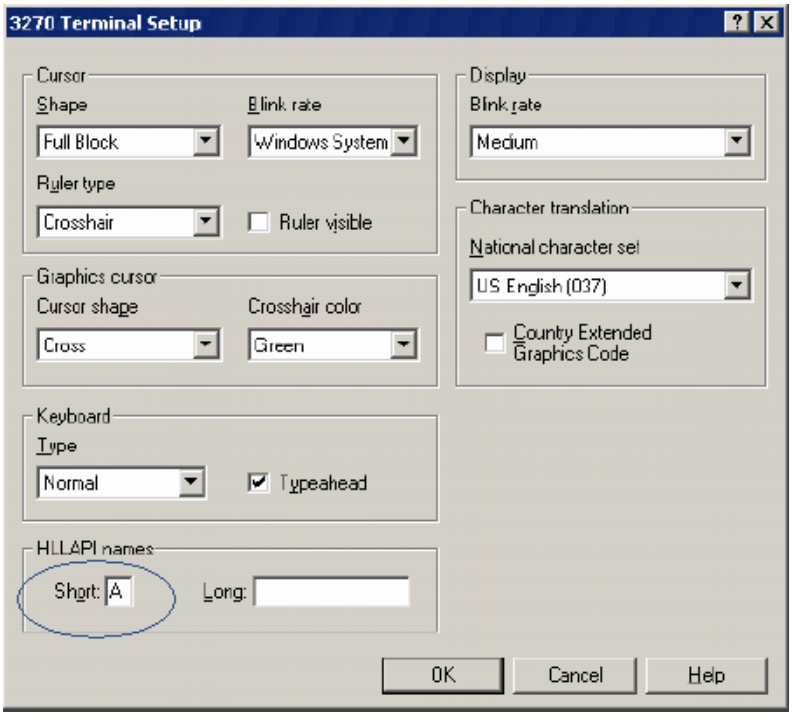
So that SecureLogin can hook into Reflection using HLLAPI, the session file that you use must be configured to use a HLLAPI short name.

1 Open Reflection and either create a new session or open the existing one that you want to use with SecureLogin.

2 (Conditional) If the session hasn't been configured to connect to your host, do this now.

2a Select Setup, then select Terminal.

2b In the HLLAPI Names pane, type a letter in the Short text box.



Type any letter.

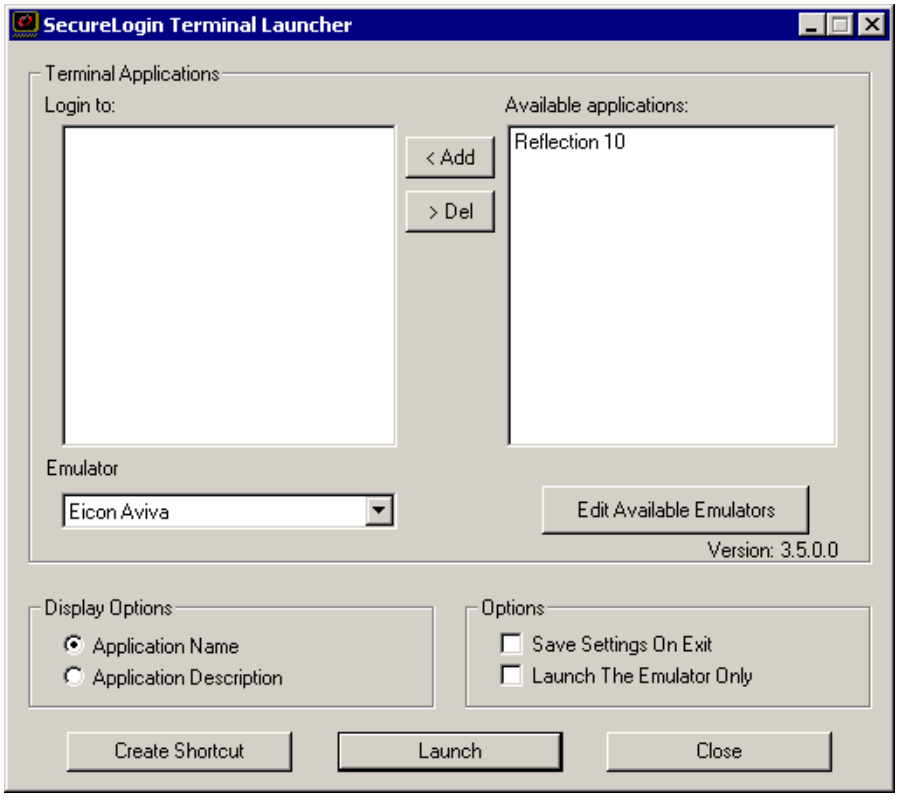
2c Click OK.

2d Save the session in the c:\Program Files\Reflection folder.

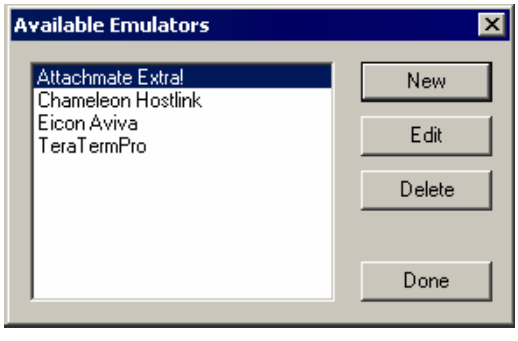
Remember the filename of the session.

Configuring Terminal Launcher

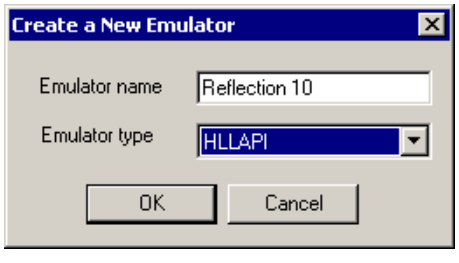
1 Run Terminal Launcher, then click Edit Available Emulators.



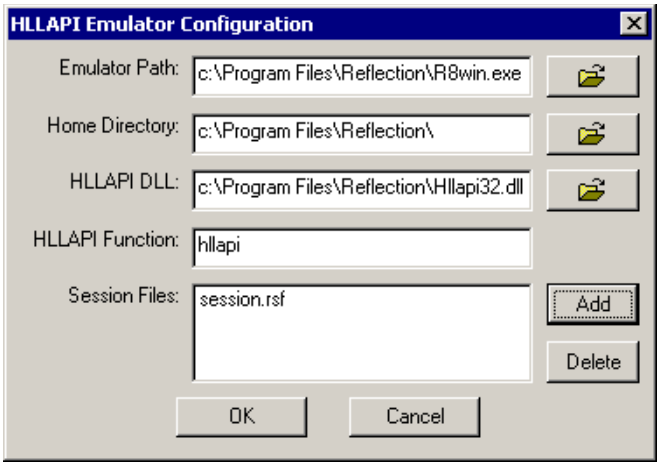
2 Click New.



3 Type a name for the emulator, select HLLAPI as the emulator type, then click OK.



4 Configure the emulator:



- Emulator Path

  The path to the r8win.exe file.

- Host Name

  The folder that you want Reflection to operate from.

- HLLAPI.DLL

  The path to the HLLAPI32.DLL file.

- HLLAPI Function

  hllapi

- Session Files

  The name of the session file that you want to use.

5 Click OK, then click Done.

Creating a Desktop Shortcut for the Emulator

Create a new shortcut on the desktop to the following path:

```
C:\Program Files\Novell\SecureLogin\TLaunch.exe /auto /h{Short name letter}
/eReflection 10 /pReflection 10
```

Testing the Configuration

The first time that the script is run, SecureLogin prompts you to type a username and password, then click OK.

After you click OK, the emulator launches and you are logged in to the session.

8 Single Sign-On for Reflections 2

This section provides information on the following:

- "Before You Begin" on page 93
- "Saving the Reflections Session" on page 93
- "Creating the SecureLogin Enabling Script" on page 94
- "Configuring the Application Shortcut" on page 94

Before You Begin

1. Create a terminal emulation session file.

   Before enabling any terminal emulator for SecureLogin single sign-on, you need to create a session file in the terminal emulator. The file must include all the required settings for deployment to end users.

   SecureLogin executes this session file when it launches the emulator. Any modifications to the session must be saved to this file. The session file can be saved locally or on the server. You can configure SecureLogin to access the file in the specified location.

2. Copy the sso.rbs file.

   Reflections for Windows 2 version 5.2 requires the sso.rbs file. Save this file to the Reflection 2 installation directory (for example, c:\rwin). This file is specific to this version of Reflections. It isn't required for other emulators.

   You can request this file from Novell Technical Services.

Saving the Reflections Session

1. Start Reflections for Windows 2 version 5.2.
2. Connect to the required host.
3. Modify the terminal emulator settings as required.
4. Save the session.

   For example, save the session as sso.r2w. The default is the application's installation directory.

5. Select Disconnect from the Connection menu.

   The session file remains loaded but you have disconnected from the host.

6. Select Connection Setup from the Connection menu.
7. Click Connect Script, then browse to and select the sso.rbs file.
8. Click OK.

To save the changes to the session file:

1. Select Save [session name] from the File menu (for example, sso.r2w).
2. Quit Reflections for Windows.

Creating the SecureLogin Enabling Script

1. Double-click the SecureLogin icon on the system tray.
2. Select Applications, then click New > New Application.
3. In the Name field, type ntvdm.exe.
4. In the Description field, type a name for the application enabler.

   For example, type Reflections for Windows.
5. From the Type drop-down list, select Windows.

   For most terminal emulators, you would select Terminal Launcher.
6. Click Create.
7. Select Script, then delete the text (#Please enter your script here) in the Script window.

```
## Username dialog

Dialog
  Class "#32770"
  Title "Reflection 2 - Username"
EndDialog

SetPrompt "Username:"
Type $Username #101
Type "\N"

SetPrompt "Enter the following single sign-on variables."

## Password Dialog
Dialog
  Class "#32770"
  Title "Reflection 2 - Password"
EndDialog

SetPrompt "Password:"
Type $Password #101
Type "\N"

SetPrompt "Enter the following single sign-on variables."
```

8. Type or copy the following in the Script window.
9. Ensure that the Enabled check box is checked.
10. Save the enabled application by clicking OK.

    The application enabler now displays in the Application list.
11. Save the data and close the SecureLogin interface by clicking OK.

Configuring the Application Shortcut

1. Right-click on the desktop, then select New > Shortcut.

2. Type the file path to the Reflections executable and session.

   For example, type c:\rwin\sso.r2w.

3. Click Next.

4. In the Type a Name for This Shortcut edit box, type a name, then click Finish.

Initially Logging In to Reflections 2 for Windows

1. Start Reflections by double-clicking the Reflections shortcut icon.

2. In the Username edit box, type your username, then click OK.

3. In the Password edit box, type your password, then click OK.

   The Reflection 2 - Password dialog displays a second time so that you can re-enter your password to enable single sign-on.

4. In the Password edit box, type your password, then click OK.

   Reflections for Windows 2 version 5.2 is now enabled for single sign-on.

A Error Codes: Terminal Launcher

This section contains error codes for Terminal Launcher.

For a full list of SecureLogin error codes, see "Error Codes" in the *Nsure SecureLogin 3.51.2 Administration Guide*.

Error Codes with Tips

-102 BROKER_NO_SUCH_ENTRY

Possible Cause: You tried to load a script or variable that doesn't exist. For example, you set up Terminal Launcher to run from a shortcut or to run a particular script, but the script doesn't exist.

Action: Check that the name of the script is actually defined is SecureLogin. Verify that the name is the same as specified in the script editor.

-220 BROKER_HLLAPI_FUNCTION_NOT_FOUND

Possible Cause: You used an incorrect function when you defined the emulator. In the Terminal Launcher configuration, you specified a HLLAPI.DLL and the name of the function in that DLL. The name of the function cannot be found in the DLL.

Action: Using the *Novell SecureLogin Configuration Guide for Terminal Emulators*, check the configuration for the emulator. Make sure that you typed the HLLAPI function correctly.

-222 BROKER_HLLAPI_DLL_LOAD_FAILED

Possible Cause: Terminal Launcher was unable to load the HLLAPI.DLL that you specified.

Action: Make sure that the path and file that you entered for the DLL are correct.

Possible Cause: The HLLAPI.DLL for that emulator is looking for other DLL files that don't exist or haven't been installed for that emulator.

Action: You have probably chosen the wrong .DLL file or have specified the wrong HLLAPI function (for example, HLLAPI or WinHLLAPI). Find the correct .dll and function. Check the vendor's documentation for information about that emulator.

You can use Microsoft* Spy++ to find Input and Output IDs.

-224 BROKER_ERROR_DURING_WINHLLAPICLEANUP

Possible Cause: Terminal Launcher has called the WinHLLAPI cleanup function for a WinHLLAPI emulator.

Action: Check the vendor's documentation for information about that emulator.

-225 BROKER_CANNOT_FIND_WINHLLAPISTARTUP_FUNCTION_IN_DLL

Possible Cause: In the Terminal Launcher configuration, you incorrectly specified that the emulator is a WinHLLAPI emulator.

Action: Using the *Novell SecureLogin Configuration Guide for Terminal Emulators*, check the configuration for the emulator. Specify the correct emulator type.

-226 BROKER_ERROR_DURING_WINHLLAPISTARTUP

Action: Check the vendor's documentation for information about that emulator.

-227 BROKER_CANNOT_FIND_WINHLLAPICLEANUP_FUNCTION_IN_DLL

Possible Cause: In the Terminal Launcher configuration, you incorrectly specified that the emulator is a WinHLLAPI emulator.

Action: Using the *Novell SecureLogin Configuration Guide for Terminal Emulators*, check the configuration for the emulator. Specify the correct emulator type.

-264 BROKER_DDE_CONNECT_FAILED

Possible Cause: Terminal Launcher couldn't connect to a specified DDE emulator.

Action: Make sure that the emulator launched correctly and the emulator's DDE support is turned on.

-273 BROKER_MSTELNET_OPERATION_NOT_SUPPORTED

Possible Cause: The generic emulator can't support a particular operation (for example, SetCursor).

Action: For generic emulators, don't use the command.

-279 BROKER_EMULATOR_LAUNCH_FAILED

Possible Cause: In Terminal Launcher, you can configure the path to the executable that will run. However, the specified executable is unable to run.

Action: Make sure that the path to the emulator is correct.

-280 BROKER_UNABLE_TO_CREATE_EMULATOR

Possible Cause: You have specified an invalid terminal type in TLAUNCH.INI (or the Terminal Launcher configuration).

Action: Specify the correct terminal type.

-281 BROKER_INVALID_CHARACTER_FOUND_IN_PASTE_ID_LIST

Possible Cause: A comma doesn't separate decimal numbers for input and output control IDs.

Action: For generic emulators, you must specify a set of input and output control IDs. Use a comma to separate decimal numbers.

-282 BROKER_INVALID_CHARACTER_FOUND_IN_COPY_ID_LIST

Possible Cause: A comma doesn't separate decimal numbers for copy IDs

Action: For generic emulators, you must specify a set of copy control IDs. Use a comma to separate decimal numbers.

-283 BROKER_UNABLE_TO_READ_TLAUNCH_INI

Possible Cause: SecureLogin is unable to read the tlaunch.ini file because the file has been deleted.

Action: Create a blank tlaunch.ini file.

Action: Create a default tlaunch.ini file by reinstalling SecureLogin.

-284 BROKER_NO_TERMINAL_TYPE_DEFINED

Possible Cause: The tlaunch.ini file contains an error. The terminal type for the emulator has not been defined.

Action: Using Terminal Launcher, specify a terminal type for the emulator.

-290 BROKER_FILE_LOAD_FAILED

Possible Cause: You don't have enough rights to convert an earlier tlaunch.ini file to a later format, read an earlier tlaunch.ini file, or create a new tlaunch.ini file.

Action: The network administrator must assign necessary rights.

-349 BROKER_UNABLE_TO_FIND_SESSION_FILE

Possible Cause: Terminal Launcher couldn't find a session file for an emulator.

Action: Configure Terminal Launcher to have the correct path to the file for the emulator session.

-356 BROKER_INVALID_CHARACTER_FOUND_IN_STARTUP_ID_LIST

Possible Cause: For generic emulators, you specify the startup control ID. A comma must separate a list of numbers. You have used a character other than a comma.

Action: Remove unacceptable characters.

-373 BROKER_HLLAPI_CONNECT_FAILED

Possible Cause: Terminal Launcher couldn't find the function name and was therefore unable to connect to the emulator. The function name is probably wrong.

Action: Make sure that the emulator has HLLAPI enabled.

-380 BROKER_HLLAPI_NOT_CONNECTED_TO_PS

Possible Cause: You haven't configured your emulator for an HLLAPI session. Terminal Launcher tried to use a HLLAPI function. However, the HLLAPI DLL is not connected to the emulator presentation space.

Action: Make sure that Terminal Launcher is set up correctly with the emulator.

-381 BROKER_HLLAPI_SPECIFYING_PARAMETERS_ERROR

Possible Cause: Incorrect parameters were given to a command that uses a HLLAPI function.

Action: Contact Novell Technical Services.

-382 BROKER_HLLAPI_INVALID_PS_POSITION

Possible Cause: Terminal Launcher was able to initialize the emulator but was unable to read the contents of the screen. An attempt was made to move the cursor or read text from an invalid (out of bounds) position on the emulator presentation space.

Action: Correct the positioning parameter in the script.

-383 BROKER_HLLAPI_SYSTEM_ERROR

Possible Cause: Terminal Launcher is not configured correctly for the emulator.

Action: Make sure that Terminal Launcher is set up correctly with the emulator and that the emulator correctly supports HLLAPI.

-384 BROKER_HLLAPI_PS_BUSY_ERROR

Possible Cause: A HLLAPI function is being called while the emulator presentation space is unavailable.

Action: Make sure that the emulator is not being used by other HLLAPI applications.

-385 BROKER_HLLAPI_INPUT_REJECTED

Possible Cause: The emulator rejected an attempt to input data into the emulator presentation space.

Action: Make sure that the emulator presentation space is not locked.

-386 BROKER_HLLAPI_ERROR_QUERYING_SESSIONS

Possible Cause: SecureLogin is unable to query available HLLAPI sessions.

Action: Make sure that Terminal Launcher is set up correctly with the emulator.