User Guide for SilkTest®

Silk TrueLog Explorer 2008 R2

Borland®

Contents

Introduction

Introduction   This chapter provides overview information regarding Silk TrueLog Explorer and how you use it with SilkTest.

What you will learn   This chapter contains the following sections:

Product Overview

Silk TrueLog Explorer for SilkTest provides enhanced capabilities for debugging. It also allows for root cause analysis of unexpected events and errors that occur during testing. Silk TrueLog Explorer presents a graphical depiction of the activities of your testcases and the state of the application under test.

TrueLogs are history files in which extensive detail of testcase actions and system state are recorded during testing. In SilkTest, you configure TrueLog to capture the actions, events and images of interest. This information is collected while tests are running and is selected from options you set within SilkTest. See "Setting TrueLog Options" for more details.

After a test run has completed, you can then use Silk TrueLog Explorer to examine the contents of the TrueLog.

Silk TrueLog Explorer enables you to:

- *Capture key information* - Log test and application information in TrueLog files.

- *Capture screen shots* - You can record bitmaps of the state of the application after selected script actions. You can limit screen captures during errors only to conserve storage space and processing power.

- *Compare TrueLogs* - With TrueLog compare mode, you can systematically compare TrueLogs from new test runs to TrueLogs from baseline test runs in which the application behaved as intended. Because bitmaps of sessions can be included, you can easily compare the differences between new test runs and baseline test runs.

- *Link directly to errors and lines in 4Test scripts* - You can link directly from nodes in Silk TrueLog Explorer to the corresponding lines in your 4Test code. This simplifies the process of locating errors and other issues in your code.

Silk TrueLog Explorer   Silk TrueLog Explorer presents a coordinated, multi-faceted view of all the information you choose to log. See "Silk TrueLog Explorer Interface" for a description of Silk TrueLog Explorer.

Silk TrueLog Explorer also supports results analysis for Borland SilkPerformer® load tests. For details about this functionality, see the *Silk TrueLog Explorer User Guide* that ships with SilkPerformer.

Supported Applications

You can use Silk TrueLog Explorer for SilkTest to record test data for the following application types:

- Client/Server
- Web-based
- Java (Windows- and browser-based applications and applets)
- .NET (Windows- and browser-based applications)

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Working with Silk TrueLog Explorer

Introduction   This chapter explains how to get started using Silk TrueLog Explorer and offers an introduction to Silk TrueLog Explorer's interface.

What you will learn   This chapter contains the following sections:

Note The Silk TrueLog Explorer works with the SilkTest Classic Agent only. Use the Difference Viewer to analyze results for testcases that use the SilkTest Open Agent.

Overview

TrueLog is a powerful technology that simplifies root cause analysis of testcase failures via visual verification.

Analyzing test scripts The results of test runs can be examined in Silk TrueLog Explorer. When an error occurs during a test run, Silk TrueLog Explorer enables you to easily locate the line in your 4Test script that generated the error. To do this, click the TrueLog action node that is associated with the error. SilkTest will open the script file and jump to the correct script line so that you can address the issue.

Compare mode *Compare mode* enables side-by-side comparison of TrueLogs and the ability to step through the compared TrueLogs in parallel, node-by-node. This is helpful when comparing the results of different test runs that have been generated from the same test script. See "Comparing TrueLogs" for details.

Silk TrueLog Explorer Interface

This section explains each of the areas of Silk TrueLog Explorer's interface. Based on the application type under test, the interface elements that are available to you will vary.

> **Note** Silk TrueLog Explorer supports TrueLogs created for both SilkTest and SilkPerformer. When working with TrueLogs created for SilkTest, you may encounter certain menu items and tabs that are grayed out. These elements offer functionality supported only for SilkPerformer TrueLogs.

The three major areas of the Silk TrueLog Explorer are the *Tree List*, the *Source window*, and the Information window.

Tree List When you open a TrueLog file, the Tree List on the left side of the interface lets you expand and collapse the TrueLog data that was saved while your testcase ran. Each loaded TrueLog file is displayed here and includes links to all captured information. The information is configured according to your selections of SilkTest TrueLog options. See "Setting TrueLog Options" for more information.

If you open the Silk TrueLog Explorer without a TrueLog loaded, you will see a message saying "Start by loading a TrueLog."

The Tree List shows a hierarchical tree-view structure of nodes. Nodes exist for the scripts and testcases contained in the TrueLog. Within a testcase node, child nodes exist for each scripted action performed by the testcase, such as clicking a push button or entering text. Nodes also exist for every window that becomes active during the testcase.

The nodes that appear in the Tree List include the following:

- TrueLog files (a node exists for each open TrueLog file)
- Root (the execution node)
- Test plans (if available)
- Scripts
- Testcases
- Active windows
- Actions (user-selected script actions)

    Note The results of Print statements are logged on the Testcase node and displayed in the Information window.

Each active window or action node in a TrueLog optionally contains screen shots and a list of GUI controls (with the actual values) that existed at the time the window became active or an action occurred. Click a node to view its contents in the Source window and its history details in the Information window. Double-click nodes in the Tree List to open or collapse subfolders. By selecting a node and pressing the down arrow, you can sequentially step through the actions of all your tests. As you do so, the other two views display information related to the selected action.

For example, when viewing a Web application TrueLog, selecting nodes in the Tree List displays a screen shot of the application in the Source window (the content that appeared at that moment during the test run). The Web application properties that were captured at that moment are displayed in the Information window.

Clicking an Action node highlights the control in both the Controls tab of the Information window and the Before Action tab of the Source window.

Several things to note about the information that appears in the Tree List:

- If a script includes a Main function, the script actions that reside in main are displayed within the script node.
- Recovery state calls are displayed as Application State nodes.
- There are several elements in 4Test test scripts that have no particular action associated with them. A node is created in the Tree List for these elements; the type of node depends on the first action of the test script.
- For browser testing, the TrueLog creates a Window Active node for each document complete event.

Source window

Silk TrueLog Explorer provides multiple views of received data. The Source window, displayed at the top of the Explorer, displays the contents of the node selected in the Tree List. Source window views that do not contain information relevant to SilkTest are inactive.

If you configured TrueLog to capture bitmaps, the Source window displays a screen shot of the window (or desktop) at the time each action occurred. The view has a Before Action tab showing the image prior to the action and an After Action tab showing the resulting image.

- **Before Action** - This tab displays the screen shots that are captured just before SilkTest executes each action in a testcase. These bitmaps are logged while testcases are running if you specify that bitmaps are to be logged (using SilkTest's TrueLog Options dialog). Clicking a control in a screen shot in a Before Action view results in that control being highlighted on the Controls tab, and vice versa.

- **Source** (HTML) **-** This tab displays HTML code that is used to generate Web content. Contains the same information as the HTML Content tab in the Information window.

  Note If Silk TrueLog Explorer detects non-printable characters in an HTML page while "auto view" mode is enabled, the Source tab displays the HTML source code in non-readable binary format. See "Silk TrueLog Explorer Display Options" for more information about changing your view of this tab.

- **After Action** - This tab displays the screen shots that are captured just after SilkTest executes each action in a testcase. These bitmaps are logged while testcases are running if you specify that bitmaps are to be logged (using SilkTest's TrueLog Options dialog).

Information window

The Information window is a panel that appears at the bottom of the Silk TrueLog Explorer. It shows the data that is captured while testcases are running. Like the Source window, the Information window offers different views based on the application under test. Views that do not contain information relevant to SilkTest are inactive.

- **Info** - General information about the loaded TrueLog file and the selected API node, including SilkTest file name and path, Function, Line number, Time, and Completion status (including severity, time, and description).

- **4Test** - The call stack information of the current call. Click a line of code in this tab to open SilkTest (if it is not already open) and jump to the corresponding line within the testcase.

- **Controls** - Information about the controls that are logged (configurable via SilkTest's TrueLog Options dialog). This information includes each control's name, value, type, and one or more of the following:
  - **CID** - Control ID value
  - **PID** - Parent ID value
  - **TL** - Distance (in pixels) from the top left of the window
  - **BR** - Distance (in pixels) from the bottom right of the window
- **Result -** Logs the result information that is typically logged to SilkTest result (.res) files.
- **HTML Content -** Displays the HTML code that is used to generate Web content. Contains the same information as the Source view in the Source window.
- **Statistics** - Includes process handle, process threads, and virtual memory information.

Viewer perspective

The version of Silk TrueLog Explorer that is available with SilkTest only supports the Viewer perspective. Viewer perspective enables only a subset of the context-menu commands across all Silk TrueLog Explorer views, and it disables the Workflow Bar. The intent of this perspective is to offer a simplified view for users who will not be customizing their scripts and to support TrueLog types for which script customization is not available. By default, SilkTest tests produce Viewer-perspective TrueLogs.

Explorer perspective (available with SilkPerformer TrueLog types) offers the full range of script customization features and the Workflow Bar provided by Silk TrueLog Explorer. For TrueLog types that offer Explorer perspective, it is possible to toggle back and forth between Explorer and Viewer perspectives. For more details, see the *Silk TrueLog Explorer User Guide* that ships with SilkPerformer.

Enabling TrueLog in SilkTest

Before you can generate TrueLogs and view their contents via Silk TrueLog Explorer, you must enable TrueLog for SilkTest. You can enable TrueLog using the Run Testcase dialog or the TrueLog Options dialog. Using the Run Testcase dialog enables you to enable or disable TrueLog each time you run a testcase. When you enable or disable TrueLog in the Run Testcase dialog, SilkTest makes the same change in the TrueLog Options dialog. Likewise, when you enable of disable TrueLog in the TrueLog Options dialog, SilkTest makes the same change in the Run Testcase dialog.

Note TrueLog recording in SilkTest is disabled by default.

Procedure To enable TrueLog for SilkTest using the TrueLog Options dialog:

1 Launch SilkTest (if not open already).

2 From the SilkTest menu bar, choose **Options/TrueLog**.

3 On the TrueLog Options dialog, check the **Enable TrueLog (for Classic Agent only)** check box, and then choose to capture data for:

- **All testcases** – logs activity for all testcases, both successful and failed. This setting may result in large TrueLog files.

- **Testcases with errors** – logs activity for only those testcases with errors. This is the recommended setting, as it limits the size of TrueLog files.

4 Choose one of the TrueLog Presets buttons to configure logging options automatically:

- **Minimal** – Logs testcases with errors; enables bitmap capture of the desktop on error; does not log any actions.

- **Default** – Logs testcases with errors; enables bitmap capture of the window on error; logs data for Select and SetText actions; enables bitmap capture for Select and SetText actions.

- **Full** – Logs all testcases; logs all control information; logs all events for browsers except for MouseMove events; enables bitmap capture of the window on error; captures bitmaps for all actions.

Procedure To enable TrueLog for SilkTest using the Run Testcase dialog:

1 Make sure that the testcase you want to run is in the active window.

2 Click **Run Testcase** on the Basic Workflow bar. If the workflow bar is not visible, choose Workflows/Basic to enable it.

3 SilkTest displays the Run Testcase dialog, which lists all the testcases contained in the current script.

4 Select a testcase and specify arguments, if necessary, in the Arguments field. Remember to separate multiple arguments with commas.

5 To wait one second after each script line is executed, check the **Animated Run Mode (Slow-Motion)** check box. Typically, you will only use this check box if you want to watch the testcase run. For instance, if you want to demonstrate a testcase to someone else, you might want to check this check box.

6 To view results using the Silk TrueLog Explorer, check the **Enable TrueLog (for Classic Agent only)** check box. Click **TrueLog Options** to set the options you want to record.

7 Click **Run**. SilkTest runs the testcase and generates a results file.

If needed, you can refine settings to indicate the activity that TrueLog is to record. See the following section for details.

Setting TrueLog Options

Before you can create TrueLogs, you must specify the types of information and actions that you want to have logged.

There are two ways to configure TrueLog options:

*   through the SilkTest **Options/TrueLog** menu
*   within individual testcases, via SetAgent options

Each SilkTest project retains its TrueLog settings, unless you change these settings within the project.

TrueLog settings are not available through option sets.

There is one TrueLog option which is only available via 4Test, all other options may be set on the TrueLog Options dialog. To change the level of the results that are captured by TrueLog, you must change the Results value via SetOption to:

*   TL_RESULTS_ERROR or 0 to log only errors
*   TL_RESULTS_WARNING or 1 to log warnings and errors
*   TL_RESULTS_INFORMATIONAL or 2 to log print statements, warnings, and errors

Setting Options via the TrueLog Options Dialog

Procedure To set TrueLog options via the TrueLog Options dialog:

1   From within SilkTest, choose **Options/TrueLog**.

2   On the Logging Settings tab, check the **Enable TrueLog (for Classic Agent only)** check box to activate logging settings.

    Note When TrueLog is enabled, running a testcase on the AWT test application causes it to hang. The hang occurs when the testcase attempts to select an item from the Controls menu. To work around this, place a SetActive() call before the Control menu pick.

3   Check any other options that apply:

-   **All Testcases** – Logs activity for all testcases (successful and failed). This setting may result in large TrueLog files. See "SilkTest Performance Considerations" for details.

- **Testcases with errors** – Logs activity for only those testcases in which errors are encountered. This is the recommended setting for limiting the size of TrueLog files. This is selected by default when you enable TrueLog.

- **TrueLog file** – TrueLog filename or path. If a path is supplied, it is relative to the machine the SilkTest Agent is running on. If you do not configure this setting, the file will default to the name used for the results file, with a .xlg extension. (If you enter a filename with no extension, the default is .xlg.) If you do not enter a path, the .xlg file will be saved to the same directory as the testcase .res file. Click **Browse** to specify a different location for the .xlg file. If you enter a path (either local or remote), the location cannot be validated until script execution time.

4   You can also choose one of the **TrueLog Presets** buttons to configure logging options automatically:

- **Minimal** – Logs testcases with errors; enables bitmap capture of the desktop on error; does not log any actions.

- **Default** – Logs testcases with errors; enables bitmap capture of the window on error; logs data for Select and SetText actions; enables bitmap capture for Select and SetText actions.

- **Full** – Logs all testcases; logs all control information; logs all events for browsers except for MouseMove events; enables bitmap capture of the window on error; captures bitmaps for all actions.

5   The **Log the following for controls** area of the dialog enables you to log certain types of information about the controls on the active window or page:

- **Control Information** – Logs the GUI control's hierarchy, name, type, and other attributes for the active window or page. This information appears on the Controls tab of the Information window in Silk TrueLog Explorer. This is selected by default when you enable TrueLog. If you choose to log control information, you may optionally decide to log the following:

    o **Control Creation/Deletion** – Tracks the creation and/or deletion of controls on the active window or page. TrueLog updates the control hierarchy after each action. Choosing this option may adversely affect performance. This option can also increase the size of the TrueLog, especially when testing tabbed windows. See "SilkTest Performance Considerations" for more details.

o **Include Static Text Controls** – Includes the static text controls in the logged hierarchy. Leave this option turned off for browser testing, otherwise you will dramatically increase the size of TrueLogs for Web testing. See "SilkTest Performance Considerations" for more details.

- **Track Low Level Events** – Logs keyboard and mouse events. For each mouse click and key press a new Action node is created in the Tree List in the Silk TrueLog Explorer. Use caution when selecting this option for browser applications (use the Log the following for browsers area of the dialog, as explained below). By including low level events in TrueLogs, you may significantly impact performance. See "SilkTest Performance Considerations" for more details.

6   In the **Log the following for browsers** area, indicate the browser events you want TrueLog to capture. These events (except for MouseMove) appear on the Information window.

- **Download Events** – Captures all events that trigger page downloads.

- **Navigate Events** – Captures all events that cause new pages to appear.

- **Terminate Events** – Captures all events that cause a browser to close.

- **New Window Events** – Captures all events that cause a new browser window to appear.

- **MouseMove Calls** – Logs all scripted MouseMove calls. This is useful for tracking JavaScript MouseOver events. By including this information in TrueLogs, you may significantly affect performance. This information appears as an Action node in the Tree List.

7   The TrueLog **Delay** setting gives Windows time to draw an application before a bitmap is taken. The delay can be used to optimize script performance. For the least impact on script execution time, set the delay as small as possible. The default setting is 0.

> **Note** To use the delay for browser testing, insert a Browser.WaitForReady call in your script. This ensures that the DocumentComplete events are seen and processed. (If WindowActive nodes are missing from the TrueLog, you must add a Browser.WaitForReady call.)

8   The **Enable Bitmap Capture** area of the dialog controls when TrueLog captures screen shots of the application under test. Bitmap files are included in TrueLog (.xlg) files.

- **As Specified on Action Settings Tab** – Enables the capture of bitmaps for each action type you select on the Action Settings tab of the TrueLog Options dialog box. This setting also causes a bitmap capture each time a window becomes active in your application.

- **On Error** – Captures a bitmap when an error occurs in your testcase. If you select this option, choose the attributes for the bitmap:

  - **Window Only** – Captures bitmap of active window after the error occurs.

  - **Desktop** – Captures bitmap of entire desktop after the error occurs.

  - **Before Error Bitmap** – Captures an additional bitmap before error occurred.

In all cases, bitmaps are linked with the resulting Error node in the Tree List of the Silk TrueLog Explorer.

9 On the **Action Settings** tab, select the scripted actions in your tests to include in the TrueLog. None of these actions are selected by default when you enable TrueLog. When enabled, these actions will appear as nodes in the Tree List of the Silk TrueLog Explorer:

- **Enable** – Logs the specified action. With the exception of Click and Select, each action corresponds to a 4Test method.

  - **Click** records mouse clicks on many controls, such as PushButton, ScrollBar, TextField, and HtmlLink. To record Click methods on a CheckBox, choose Select, not Click.

  - **Select** records actions on multiple methods of multiple types of controls, including ListBox, TreeView, ComboBox, RadioButton, and CheckBox. Here is a partial list of what Select records:

    - ListBox, TreeView – Select, DoubleSelect, SelectList, SelectRange, Click

    - ComboBox, RadioButton – Select, Click

    - CheckBox – Check, Uncheck, Toggle, SetState, Click

- **Bitmap** – Optionally, select the point in time you want bitmaps to be captured:

  - **Before** the selected actions occur

  - **After** the selected actions occur

- **Before and After** the selected actions occur

The default setting for all actions is None. Be aware that capturing bitmaps increases TrueLog file size. See "Tips for Working with TrueLogs" for more information and tips about these bitmaps.

Changing TrueLog Options via 4Test

While we strongly recommend you set TrueLog options via the TrueLog Options dialog, you may also manipulate TrueLog options within a testcase with the OPT_TRUELOG Agent option and the TRUELOGOPTIONS record type. See the SilkTest Online Help for information about using Agent.SetOption, Agent.GetOption(), and BindAgentOption().

Example   As shown below, you can call truelog.inc within a testcase to set the value of a particular option, such as the enabling bitmaps.

```
[ ] use "truelog.inc"
[ ]
[ ] TRUELOGOPTIONS  rTLOpts
[ ] TRUELOGOPTIONS  rOldTLOpts
[ ]
[-] testcase TestTrueLogOptions () appstate none
    [ ] rTLOpts = Agent.GetOption (OPT_TRUELOG)
    [ ] print (rTLOpts)      //print the original TrueLog options
    [ ] rTLOpts.iActionSetText = TL_ACTION_ENABLE_BEFORE_BITMAPS
    [ ] rTLOpts.iActionSelect = TL_ACTION_ENABLE_BOTH_BITMAPS
    [ ] rOldTLOpts = Agent.SetOption (OPT_TRUELOG, rTLOpts)
    [ ] print  (rTLOpts)     // print the new TrueLog options
```

Opening TrueLogs in the Silk TrueLog Explorer

By default, TrueLog files are saved to the same directory as other SilkTest test result files (.res). You can specify a new location for TrueLog (.xlg) files; see "Setting TrueLog Options" for more information.

TrueLog files share the same base filename as other SilkTest result files (for example, *test1.res* and *test1.xlg*), but have the .xlg suffix.

> **Note** To view a TrueLog, you must first enable TrueLog in SilkTest, configure TrueLog settings in SilkTest, and run a testcase. For more information, see "Enabling TrueLog in SilkTest" and "Setting TrueLog Options".

Procedure To open TrueLogs in the Silk TrueLog Explorer

1 Choose **Start/Programs/Borland/SilkTest <version>/Analysis Tools/ Silk TrueLog Explorer**.

2 Choose **File/Add TrueLogs**. The Open dialog is displayed.

3   Navigate to the directory of the .xlg file you want to explore. Optionally, you can check the "Open in Compare View" check box to open the file in Compare view (see "Comparing TrueLogs" for details).

4   Click **OK**.

Note Multiple TrueLogs can be loaded into Silk TrueLog Explorer simultaneously.

Alternatively, you can open TrueLogs in the Silk TrueLog Explorer by:

• Using Windows Explorer, double-click any TrueLog (.xlg) file

• From within SilkTest you can:

-    Click **Explore Results** on the Basic Workflow Bar or the Data Driven Workflow Bar, then select a .xlg file.

-    Choose **Results/Launch TrueLog Explorer**, then select a .xlg file.

-    Choose **File/Open**, then select a .xlg file.

-    Open a SilkTest project; right-click a .xlg file; click **Launch TrueLog Explorer**.

Finding Testcase Errors

Silk TrueLog Explorer helps you find errors quickly while examining test results. You can then easily make corrections to your test script.

Note When viewed in Tree List, nodes that contain errors are tagged with red "X" marks.

Procedure To find errors in a TrueLog:

1   With Silk TrueLog Explorer open and your TrueLog files loaded, locate a TrueLog of interest in the Tree List.

2   Choose **Edit/Find Errors.**

3   The Find Errors dialog appears with the **all open TrueLogs** option selected. Configure search settings as required:

-    Select **selected TrueLog only** from the **Search in** drop-list box to search for errors only within the active TrueLog.

-    Check the **Errors** check box to include errors in your search.

-    Check the **Warnings** check box to include warning messages in your search.

-    Check the **Informational** check box to include informational messages in your search.

- Select the **Start from selected node** option to begin your search at the active node.

- Select the **Start with first error** option to begin your search from the first encountered node that includes an error.

4   Click the **Find Next** button to step through TrueLog result files one error at a time based on your settings. You can easily jump to the corresponding SilkTest testcase of any error you encounter (to correct the error or update information). See the following section for details.

Opening SilkTest Files from Silk TrueLog Explorer

You can quickly jump from a link in a TrueLog file to the corresponding line in a SilkTest file to correct errors or update information.

Procedure To locate the corresponding SilkTest 4Test line in a SilkTest file:

1   With Silk TrueLog Explorer open and your TrueLog files loaded, locate a TrueLog of interest in the Tree List.

2   Click an action node or error node, then click the **4Test** tab.

3   Select a line in the 4Test call stack. SilkTest opens to the particular line of the file that corresponds to the clicked line.

Comparing TrueLogs

Comparing two TrueLogs enables you to walk through two or more test runs generated by the same test script to identify playback errors. If you need to edit your 4Test scripts, you must do this within SilkTest.

TrueLogs are loaded into Default view. TrueLogs are loaded into Compare view automatically when you explicitly check the **Open in Compare View** check box on the Open dialog.

Enabling Compare Mode

Procedure To enable Compare Mode:

1   With Silk TrueLog Explorer open and your TrueLog files loaded, locate a TrueLog of interest in the Tree List.

2   Choose **View/Compare Mode**.

Note Multiple entry points and approaches are available for the comparison of TrueLogs. TrueLogs do not need to be loaded into a particular location of the Tree List.

Comparing two TrueLogs

Procedure To compare two TrueLogs:

1 Choose **File/Add TrueLogs.** The Open dialog displays.

2 Select the first TrueLog you want to compare and click **Open**. The TrueLog opens in the Tree List.

3 Choose **File/Add TrueLogs**. Select the second TrueLog you want to compare in the Open dialog that appears.

4 Check **Open in Compare View**.

5 Click **Open**. The second TrueLog opens in a second Tree List, below the first TrueLog.

6 Choose **Edit/Step through TrueLog**. The Step through TrueLog dialog is displayed with the SilkTest nodes option selected, allowing you to run a node-by-node comparison of the TrueLogs.

7 Click the **Find Next** button to step through the two TrueLog result files one node at a time, side-by-side.

Closing TrueLogs

Procedure To close a TrueLog:

1 Select the TrueLog to be closed in the Tree List.

2 Choose **File/Remove selected TrueLog**.

Alternative To close all open TrueLogs, choose **File/Remove all TrueLogs**.

SilkTest Performance Considerations

Logging bitmaps and controls in TrueLog may adversely affect the performance of SilkTest. Because capturing bitmaps and logging information can result in large TrueLog files, you may want to log testcases with errors only and then adjust the TrueLog options for testcases where more information is needed.

If you are running long regression tests and you need to debug those tests, you can capture bitmaps for only the testcases with errors. You set this by clicking **SilkTest/Options/TrueLog**. In the Enable Bitmap Capture area, select **On Error**, then click **Window only**.

Each action type you specify for logging (on the Actions Settings tab of the TrueLog Options dialog) results in a new node appearing in Silk TrueLog

Explorer's Tree List. We recommend that you only log the action types you are investigating.

Tips for Working with TrueLogs

Note Silk TrueLog Explorer for SilkTest does not currently support 4Test script customizations or application-protocol specific functionality.

Enable bitmap capture for desktop vs. active window

We suggest that you capture the desktop image instead of just the window if you suspect another application or dialog box appears on top of your application. To do this, choose **SilkTest/Options/TrueLog**. In the Enable Bitmap Capture area, select **On Error**, then click **Desktop**. Any time you suspect an error is being caused by a system condition other than the application under test, consider using this option.

Controls that are out of view

Silk TrueLog Explorer has no ability to put controls into view when bitmaps are captured. If you want to ensure that TrueLog's bitmaps show the control of a particular action, you must scroll that control into view.

SetText and MultiText actions captured in bitmaps

If you capture bitmaps for SetText and SetMultiText actions, the Silk TrueLog Explorer displays the text that is set for those actions in large red letters superimposed on the bitmaps. The position of the text is in the physical center of the bitmap and is unrelated to the control into which the text was set. This can be misleading if the control is not visible in the captured bitmap.

Results tab contains non-printable characters

If the date in Silk TrueLog Explorer Results tab contains non-printable characters, the data will be displayed in both ASCII and hexadecimal characters. You can turn off this Automatic view in the TrueLog Explorer Options dialog. Choose **Settings/Options** in the Silk TrueLog Explorer, then click the **Display** tab. Uncheck all check boxes in the **Data format** area.

2

Customizing Silk TrueLog Explorer

Introduction

This chapter shows you how to take advantage of Silk TrueLog Explorer's customization and view features.

What you will learn

This chapter contains the following sections:

Overview

Silk TrueLog Explorer's GUI customization and view features enable you to work more efficiently and adapt Silk TrueLog Explorer to your needs.

Silk TrueLog Explorer Display Options

Auto view mode is set by default to automatically select the best representation of captured data. To view HTML source code in readable format, you must disable auto view mode.

Procedure To disable binary view of captured HTML code:

1   Choose **Options** from the Silk TrueLog Explorer **Settings** menu.

2   On the Display tab, uncheck the **Auto view mode** check box.

3   Uncheck the **Show binary data** check box.

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

Customizing Toolbars and Commands

You can specify which toolbars and commands appear in Silk TrueLog Explorer's interface.

Customizing toolbar display

You can select/deselect Silk TrueLog Explorer toolbars for display using the Customize/Toolbars dialog.

Procedure To select/deselect toolbars for display:

1   Choose **Settings/Customize** from the Silk TrueLog Explorer menu.

2   Click the **Toolbars** tab.

3   Place checks in the check boxes next to the toolbars you want to display. Uncheck those toolbars you do not want to display.

4   Specify whether or not you want to enable Tooltips (roll-over UI control descriptions) using the **Show Tooltips** check box.

5   Specify whether or not you want to enable Silk TrueLog Explorer's "cool look" using the **Cool Look** check box. "Cool Look" replaces Windows 3.1 style drop-shadow buttons with non-drop shadowed buttons.

6   Click **OK** to confirm your selections.

Alternative Click **Apply** to immediately apply your selections to the Silk TrueLog Explorer UI or click **Cancel** to clear your selections. Click the **Reset** button to restore the default selections.

Customizing commands

You can customize the command buttons that are displayed on each toolbar using the Customize Commands dialog.

> **Note** The Menu toolbar cannot be customized.

Procedure To specify commands to be included on toolbars:

1 Choose **Settings/Customize.**

2 Click the **Commands** tab.

3 Select a toolbar in the **Categories** select box.

4 Click available commands in the **Buttons** box to read their descriptions in the **Description** box.

5 Drag desired commands onto the toolbar names in the **Categories** select box.

6 Click **OK** to confirm your selections.

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