HP Run Results Viewer

Software Version: 12.53

User Guide



Document Release Date: June 2016 | Software Release Date: June 2016

Legal Notices

Warranty

The only warranties for Hewlett Packard Enterprise Development LP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HPE shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Restricted Rights Legend

Confidential computer software. Valid license from HPE required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notice

© Copyright 1992 - 2016 Hewlett Packard Enterprise Development LP

Trademark Notices

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

Google[™] and Google Maps[™] are trademarks of Google Inc

Intel® and Pentium® are trademarks of Intel Corporation in the U.S. and other countries.

Microsoft®, Windows®, Windows® XP, and Windows Vista ® are U.S. registered trademarks of Microsoft Corporation.

Oracle and Java are registered trademarks of Oracle and/or its affiliates.

Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates or to verify that you are using the most recent edition of a document, go to: https://softwaresupport.hpe.com.

This site requires that you register for an HPE Passport and sign in. To register for an HPE Passport ID, go to https://softwaresupport.hpe.com and click **Register**.

Support

Visit the HPE Software Support Online web site at: https://softwaresupport.hpe.com

This web site provides contact information and details about the products, services, and support that HPE Software offers.

HPE Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- · Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HPE support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HPE Passport user and sign in. Many also require a support contract. To register for an HPE Passport ID, go to: https://softwaresupport.hpe.com and click **Register**.

To find more information about access levels, go to: https://softwaresupport.hpe.com/web/softwaresupport/access-levels.

HPE Software Solutions & Integrations and Best Practices

Visit HPE Software Solutions Now at https://softwaresupport.hpe.com/group/softwaresupport/search-result/-/facetsearch/document/KM01702710 to explore how the products in the HPE Software catalog work together, exchange information, and solve business needs.

Visit the **Cross Portfolio Best Practices Library** at https://hpln.hpe.com/group/best-practices-hpsw to access a wide variety of best practice documents and materials.

Contents

HP Run Results Viewer	1
Welcome to the Run Results Viewer User Guide	
Chapter 1: Using the Run Results Viewer Run results XML file	7
Custom Fields (UFT API Testing Only)	
Jump to a step in a GUI test from the run results	
Manually submit defects to ALM	
Automatically submit defects to an ALM project	
Export run results	. 14
Play a Screen Recorder movie in the HP Micro Player	16
Delete run results	. 16
Known Issues-Viewing Run Results	17
Chapter 2: Run Results - Understanding Step Results	.19
Smart Identification in the Run Results (UFT GUI Testing Only)	. 19
Checkpoint and Output Value results	22
Parameterized values in the run results	. 37
GUI Tests containing calls to UFT API /Service Test Tests	. 40
Send Us Feedback	.41

Welcome to the Run Results Viewer User Guide

The HP Run Results Viewer User Guide explains how to use the Run Results Viewer to interpret and use the test results from your GUI or API tests.

It is recommended to have some prior knowledge of UFT and its testing capabilities so you can fully evaluate the test results.

Additional Online Resources

The following additional online resources are available:

Resource	Description		
HP Software Support Online	The HP Software Support Web site (www.hpe.com/go/hpsoftwaresupport). To access, choose Help > HP Software Support.		
	Note: Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To register for an HP Passport user ID, go to: http://h20229.www2.hpe.com/passport-registration.html		
Testing Forums	 API Testing: http://h30499.www3.hpe.com/t5/Service-Test-Support-and-News/bd-p/sws-Serv_TEST_SF BPT: http://h30499.www3.hpe.com/t5/Business-Process-Validation/bd-p/sws-BPT_SF 		
UFT Product Page	The HP Unified Functional Testing product page (http://www8.hpe.com/us/en/software-solutions/unified-functional- testing-automated-testing/index.html), with information and related links about UFT. To access, select Help > Useful Links > Product Page.		
Troubleshooting & Knowledge Base	The Troubleshooting page (http://h20230.www2.hpe.com/troubleshooting.jsp) on the HP Software Support Web site where you can search the HP Software Self-solve knowledge base. To access, select Help > Knowledge Base or Help > Troubleshooting .		

Resource	Description	
HP Software Community		
HP Manuals Site	The HP Software Product Manuals Web site (http://support.openview.hpe.com/selfsolve/manuals), to search for the most up-to-date documentation for a selected HP Software product. To access, select Help > Useful Links > HP Manuals Site.	
What's New	The UFT What's New Help, describing the new features and enhancements in this version of UFT.	
Product Movies	The UFT HPLN (HP Live Networks) page (https://hpln.hpe.com/page/uft-120-videos) with a list of all product movies.	
HP Software Web site	The HP Software Web site (www.hpe.com/go/software). This site provides you with the most up-to-date information on HP Software products. This includes new software releases, seminars and trade shows, customer support, and more.	

Chapter 1: Using the Run Results Viewer

After running a test or component, you can view the run results in the HPRun Results Viewer. The Run Results Viewer contains multiple panes, each of which displays specific types of information. The Run Results Tree Pane and Search Box displays a hierarchical representation of the run results. The remaining panes provide details about a selected node or step, the data used for a particular step, optional screen captures or images (UFTGUI testing only), optional system information (UFTGUI testing only), and so on.

In addition, you can view the run results in HTML format directly in your browser or in UFT. To select the format in which you want to view the run results, open the Run Sessions pane in the Options dialog box (**Tools > Options > General** tab **> Run Sessions** node).

By default, the Run Results Viewer opens automatically at the end of a run session. If you want to change this behavior, in UFT, clear the **View results when run session ends** check box in the Run Sessions pane of the Options dialog box.

The Run Results Viewer contains a description of the steps performed during the run session.

- For a GUI component, or for a GUI test that does not contain Data Pane parameters, the Run Results Viewer shows a single test iteration.
- For tests, if the test contains Data Pane parameters, and the test settings are configured to run multiple iterations, the Run Results Viewer displays details for each iteration of the test run. The results are grouped by the actions in the test.
- For an API test, the individual steps and checkpoints included in the test. If a test is set to run multiple iterations, each iteration is displayed.

You set the test to run for one or all iterations in the Run pane of the Settings dialog box. For details, see the section describing the Run pane in the *HP Unified Functional Testing User Guide*.

The Run Results Viewer is installed automatically with UFT.

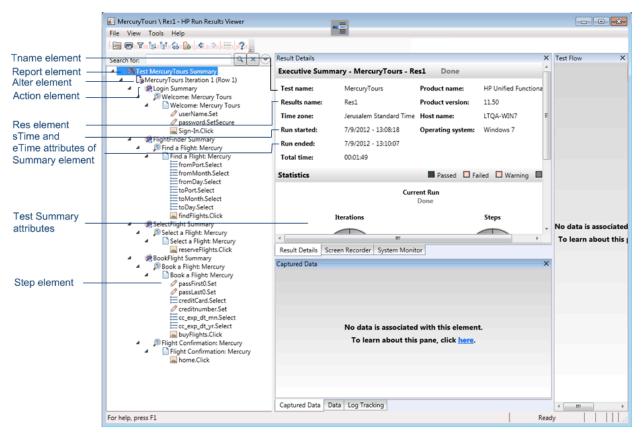
You can also install the Run Results Viewer as a standalone application. This enables you to share the results of your tests with business analysts and developers who do not have UFT installed on their computers.

Run results XML file

The results of each run session are saved in a single **.xml** file (called **results.xml**). This **.xml** file stores information on each of the run result nodes in the display. The information in these nodes is used to dynamically create **.htm** files that are shown in the Result Details pane in the Run Results Viewer.

Each node in the run results tree is an element in the **results.xml** file. In addition, there are different elements that represent different types of information displayed in the run results. You can take run result information from the **.xml** file and use XSL to display the information you require in a customized format (either when printing from within the Run Results Viewer, when displaying run results in your own customized results viewer, or when exporting the run results to an **.html** file).

The diagram below for a GUI test, shows the correlation between some of the elements in the **.xmI** file and the items they represent in the run results. These elements are similar for both tests and business components.



XSL provides you with the tools to describe exactly which run result information to display and exactly where and how to display, print or export it. You can also modify the **.css** file referenced by the **.xsl** file, to change the appearance of the report (for example, fonts, colors, and so forth).

For example, in the **results.xml** file, one element tag contains the name of an action or a component, and another element tag contains information on the time at which the run session is performed. Using XSL, you could tell your customized Run Results Viewer that the action or component name should be displayed in a specific place on the page and in a bold green font, and that the time information should not be displayed at all.

You may find it easier to modify the existing **.xsl** and **.css** files provided with the Run Results Viewer application, instead of creating your own customized files from scratch. The files are located in the **HP\Run Results Viewer\dat** folder, and are named as follows:

- **PShort.xsl.** Specifies the content of the run results report printed, or exported to an HTML file, when you select the **Short** option in the Print or Export to HTML File dialog boxes.
- **PDetails.xsl.** Specifies the content of the run results report printed, or exported to an HTML file, when you select the **Detailed** option in the Print or Export to HTML File dialog boxes.
- **PStringTable.xsl.** Specifies the string constants to be used in the exported document. For example, Iteration # may be used for the iteration number prefix. If you select the **User-defined XSL** option in the Print or Export to HTML File dialog boxes, the **.xsl** file you specify must contain an "include" call to this file. You can localize the strings, if needed.
- **PResults.css.** Specifies the appearance of the run results print preview. This file is referenced by the above .xsl files.
- **Results.css.** Specifies the styles, fonts, and colors of the various elements displayed in the run results.

UFT only: For details on the structure of the XML schema, and a description of the elements and attributes you can use to customize the run results reports, see the *HP Run Results Schema Reference* (Help > HP UFT GUI Testing Automation and Schema References Help > HP Run Results Schema Reference).

Custom Fields (UFT API Testing Only)

You can use the **Report** function to show custom information in the Run Results Viewer. You can specify strings or existing arguments and display them in the viewer.

You add the **Report** function to the step's events. For details, see the section on Custom Code and Events in the *HP Unified Functional Testing User Guide*.

The following example prints APR-12-2010_CYCLE_1 in the Value column for TestID.

```
args.Activity.Report("TestID","APR-12-2010_CYCLE_1");
```

The report displays the keyword and its value at the Activity level of the results.

Ca	aptured Data		
	Name	Value	
	Туре	${\sf HP}.{\sf ST}.{\sf Ext}.{\sf BasicActivities}.{\sf ConcatenateStringsActivity}$	
	Step ID	ConcatenateStringsActivity4	
	Message	Successfully concatenated strings	
<	TestID	APR-12-2010_CYCLE_1	
	Prefix	'Hello '	
	Suffix	'World'	Ξ
	Result	'Hello World'	
	Name	'Concatenate Strings4'	
	Comment	11	
	Status	Done	Ŧ
Ŀ		4	
	Captured Data Data Log Tracking		

Navigate the run results tree

This task describes how to collapse or expand a branch in the run results tree to select the level of detail that the tree displays.

When you open run results in the Run Results Viewer for the first time, the tree expands one level at a time. If the child branches under a parent branch were previously expanded, that state is maintained when you expand or collapse the parent branch.

You can do the following to view the results:

- "Expand a specific branch" below
- "Expand a branch and all branches below it" on the next page
- "Expand all of the branches in the run results tree" on the next page
- "Collapse a specific node" on the next page
- "Collapse all of the nodes in the tree" on the next page
- "Move between previously selected nodes within the run results tree" on the next page
- "Find specific steps within the Run Results" on the next page
- "Filter the tree to display only nodes that match certain criteria" on the next page

Expand a specific branch

- Double-click the branch.
- Select the branch and click the arrow to the left of the branch icon.

• Press the plus key (+) on your keyboard number pad.

The tree displays the details for the branch, and the expand sign changes to collapse.

Expand a branch and all branches below it

- Select the branch and press the asterisk (*) key on your keyboard number pad.
- Right-click a branch and select Expand All.

Expand all of the branches in the run results tree

- Right-click the top level branch and select Expand All.
- Select View > Expand All.
- Click the Expand All button 🔛 .
- Select the top level of the tree and press the asterisk (*) key on your keyboard number pad.

Collapse a specific node

- Double-click the node.
- Right-click a node and select Collapse All.
- Select it and click the arrow to the left of the node icon.
- Press the minus key (-) on your keyboard number pad.

The node's child nodes disappear from the tree.

Collapse all of the nodes in the tree

- Right-click the top level branch and select Collapse All.
- Select View > Collapse All.
- Click the Collapse All button

Move between previously selected nodes within the run results tree

Click the Go to Previous Node or Go to Next Node buttons <

Find specific steps within the Run Results

Use the Search box (located above the run results tree), for example:

Search for:

You can search for text, status, and/or types of nodes.

Filter the tree to display only nodes that match certain criteria

Use the Filter dialog box (View > Filters).

Jump to a step in a GUI test from the run results

You can view the step in UFT that corresponds to a node in the Run Results tree for any node that has a corresponding step in a GUI test.

- **Note:** This feature is disabled for:
- Any testing document other than a GUI test.
- The Action, Iteration, and Test Summary nodes.
- Any step that is part of an action that was run using the LoadAndRunAction statement.
- Any step performed by a recovery scenario.
- Tests that were run in **Fast** mode.
- Any step run from the Watch or Console debug panes in UFT.
- 1. Make sure that UFT is open to the test whose results are displayed in the Run Results Viewer.
- 2. Select a node in the run results tree.
- 3. Perform one of the following:
 - a. Click the Jump to Step in Test button 📃 from the Run Results toolbar.
 - b. Right-click and select Jump to Step in Test from the context menu.
 - c. Select View >Jump to Step in Test.
- 4. The UFT window is activated and the step is highlighted.

Manually submit defects to ALM

This task includes the following steps:

- "Prerequisites" below
- "Connect to an ALM project" below
- "Add a new defect" below
- "Results" on the next page
- 1. Prerequisites

Ensure that the ALM client is installed on your computer. (Enter the ALM Server URL in a browser and ensure that the Login screen is displayed.)

2. Connect to an ALM project

Select **Tools > ALM Connection** or click the **ALM Connection** button and connect to an ALM project.

3. Add a new defect

- a. Select **Tools > Add Defect** or click the **Add Defect** button is to open the New Defect dialog box in the specified ALM project. The New Defect dialog box opens.
- b. Modify the defect details as necessary. Basic information on the test or component and any checkpoints (if applicable) is included in the description:

```
The CheckPoint 'Checkpoint "CheckLinks'" Failed
Operating system : Windows 7
Test path : C:\Users\LTQA\Desktop\Sample Tests\QTP_Tests\UFT_Tutorial_Tests\Tutorial\Checkpoint on LTQA-WIN7
Operating system : Windows XP
```

```
        Operating system :
        Windows XP

        Test path :
        [QualityCenter] Components\YE\ComponentWithDefect
```

Tip: You can attach movies (**.fbr** files) to defects in ALM. If you have the Unified Functional Testing Add-in for ALM installed, you can view the movies from ALM.

4. Results

The defect is added to the ALM project's defect database.

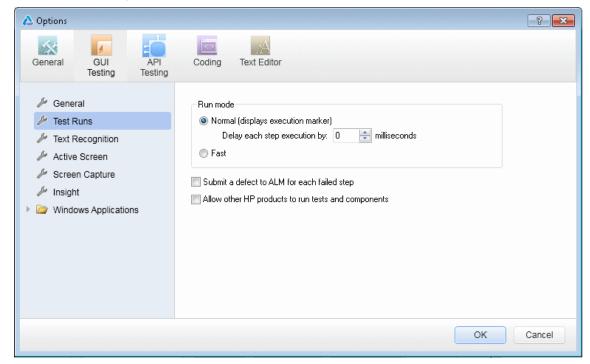
Automatically submit defects to an ALM project

This task describes how to set the Run options in UFT to automatically submit defects to your ALM project for each failed step in your GUI test, eliminating the need to remember to submit these defects after a run session.

This task includes the following steps:

- "Prerequisites" below
- "Modify the Run settings in the Options dialog box" below
- "Results" on the next page
- 1. Prerequisites
 - In UFT, make sure you are connected to the relevant ALM project prior to the run session (ALM > ALM Connection).
 - The run results must be stored in this ALM project.
- 2. Modify the Run settings in the Options dialog box

- a. Select **Tools > Options**. The Options dialog box opens.
- b. In the GUI Testing tab, click the Test Runs node.



- c. Select the Submit a defect to ALM for each failed step check box.
- d. Click ok to close the Options dialog box.
- 3. Results

During each run session, the necessary defects are added to your ALM project. A sample of the information that is submitted to ALM for each defect is shown below:



Export run results

This task describes how to export run results to a file.

This task includes the following steps:

- "Open the results in the Run Results Viewer" below
- "Specify the export settings" below
- "Save the file" below
- "Results" below
- Open the results in the Run Results Viewer In the Run Results Viewer, select File > Open.
- 2. Specify the export settings

Select File > Export To File. The Export Run Results dialog box opens.

3. Save the file

Click **Export**. The Save As dialog box opens. Specify the file name and path, and select the required file type.

Report type	Save as type		
Step details	 HTML (*.htm, *.html) (default) PDF (*.pdf) DOC (*.doc) (Available if Microsoft Word is installed) 		
Data Table	Excel (*.xls)		
Log Tracking (UFTGUI Testing only)	XML (*.xml)		
Screen Recorder (UFTGUI Testing only)	FlashBack (* .fbr)		
System Monitor (UFTGUI Testing only)	 Text (*.csv, *.txt) (default) Excel (*.xls) XML (*.xml) HTML (*.htm, *.html) 		
	Note: Only the system monitor data is exported, not the graph.		

4. Results

When you click **Save**, the file is exported in the specified format to the designated location.

Note: You can view .fbr files in the HP Micro Recorder. You can also attach

.fbr files to defects in ALM. If you have the Unified Functional Testing Add-in for ALM installed, you can view the movies from ALM.

Play a Screen Recorder movie in the HP Micro Player

Note: UFT must be installed on the computer on which you want to use the HP Micro Player.

- 1. Perform one of the following:
 - Double-click any .fbr file in Windows Explorer.
 - Select Start > All Programs > HP Software > HP Unified Functional Testing > Tools > HP Micro Player and then select File > Open in the Micro Player to select any .fbr file.
 - Open the program at <**UFT installation folder\bin\Free_HPSR_Player.exe**.

The movie opens in the HP Micro Player and begins playing.

Note: For details on accessing UFT and UFT tools and files in Windows 8.X or higher and Windows Server 2012, see "Accessing the UFT in Windows 8.X or Higher Operating Systems" on the next page.

2. Use the controls at the top of the window to access a particular location in the movie or to modify the volume settings.

Delete run results

This task describes how to use the Run Results Deletion Tool to remove unwanted or obsolete run results from the file system, according to specific criteria that you define. For example, you may want to always delete run results older than a certain date or over a minimum file size. This enables you to free up valuable disk space.

Prerequisites

To delete run results from an ALM project, you must first:

- Make sure that you have Delete Run permissions for this ALM project.
- Connect to the ALM project.

Delete run results using the Run Results Deletion Tool

In the Run Results Deletion Tool, select the file or folder from which to delete run results and then select the selected run results to delete.

The selected run results are deleted from the file system and/or the ALM project.

Known Issues- Viewing Run Results

Local system monitor	After you run a test or component with the local system monitoring option activated when the test or component is either very short, or the number of seconds entered for the Enable local system monitoring every: seconds option is high (a high percentage relative to the length of your entire test run), then when you select one of the last steps in the Run Results tree, the Current Step indicator in the System Monitor pane may jump to a position outside (to the right) of the graph. Workaround: Add a Wait statement to the end of the test or reduce the number of seconds entered in the Enable local system monitoring every: seconds option.	
Run session errors	Errors during the run session produce more than one error node in the ru results.	
Exporting run results	• Exporting run results. When UAC is set to ON and you select to export the Run Results to a system folder, the exported file is stored under Virtual Storage rather than under the specified folder. (Relevant for Windows 7, Windows Server 2008 R2, Windows 8.x, and Windows Server 2012)	
Viewing run results from	If you installed the Run Results Viewer without installing UFT, then after you run a BPT test from ALM, pressing Show Last Run Results might fail to display the results in the Run Results Viewer if the Visual C++ 2005 redistributable is installed on your computer.	
ALM	Workaround: Install the Unified Functional Testing Add-in for ALM from the ALM Add-ins page.	

Accessing the UFT in Windows 8.X or Higher Operating Systems

By default, the Run Results Viewer is not displayed on the **Start** or **Apps** screen in Windows 8.x or higher.

You can add the Run Results Viewer to the Start screen by navigating to its location on the file system or the **Desktop** screen and pinning it to the **Start** screen.

In addition, you can add other related files, including .exe files and documentation the **Start** screen by pinning these items.

Note: By default, the Start and Apps screens on Windows 8.x or higher are set to open Internet Explorer in Metro Mode. However, if User Account Control is turned off on your computer, Windows 8 will not open Internet Explorer in Metro mode.

Therefore, if you try to open an HTML shortcut from the Start or Apps screen, such as the UFT Help or Readme file, an error will be displayed.

To solve this, you can change the default behavior of Internet Explorer so that it never opens in Metro mode. In the **Internet Properties** dialog box > **Programs** tab, select **Always in Internet Explorer on the desktop** for the **Choose how you open links** option. For more details, see http://support.microsoft.com/kb/2736601 and http://blogs.msdn.com/b/ie/archive/2012/03/26/launch-options-for-internet-explorer-10-on-windows-8.aspx.

Chapter 2: Run Results - Understanding Step Results

In the run results, certain steps are displayed differently to help you gain a greater understanding of the results of your test run.

These include:

- Steps that used Smart Identification
- Checkpoint and output value steps
- Parameterized steps
- Calls to UFT API or Service Test tests/actions

Smart Identification in the Run Results (UFT GUI Testing Only)

If the learned description does not enable UFT to identify the specified object in a step, and a Smart Identification definition is defined (and enabled) for the object, then UFT tries to identify the object using the Smart Identification mechanism. The following examples illustrate two possible scenarios.

No Object Matches the Learned Description

If UFT successfully uses Smart Identification to find an object after no object matches the learned description, the run results display a warning status and include the following information:

In the results tree	In the Result Details pane
A description mismatch icon for the missing object. For example:	An indication that the object (for example, the userName WebEdit object) was not found.

In the results tree	In the Result Details pane
A Smart Identification icon for the missing object. For example: • "userName": Smart Identification	An indication that the Smart Identification mechanism successfully found the object, and information on the properties used to find the object. You can use this information to modify the learned test object description, so that UFT can find the object using the description in future run sessions.
The actual step performed. For example:	Normal result details for the performed step.

The image below shows the results for a test or component in which Smart Identification was used to identify the userName **WebEdit** object after one of the learned description property values changed.

📓 Checkpoint \ Res8 - HP Run Results Viewer	
File View Tools Help	
i 🖻 🖻 Y は bi 🍪 🗞 ⇐ ⇒ 🗮	?
Search for:	Result Details X
III I	Step Name: "userName"- Description mismatch
Navigate to http://newbi StartUp Browser.Sync	Step Warning
A ! Action1 Summary : A ! OWECOME: Mercury Tour	Object Details Result Time
Welcome: Mercury To Welcome: Mercury Ti UserName.Set Maintenance	"userName"- Description mismatch The object was not found using the test object description. Check the object's properties. 7/11/2012 - Warning 7/11/2012 -
🧷 password.SetSeci	
⊿ 🖉 userName ∥ Output "userN ≣	Result Details Screen Recorder System Monitor

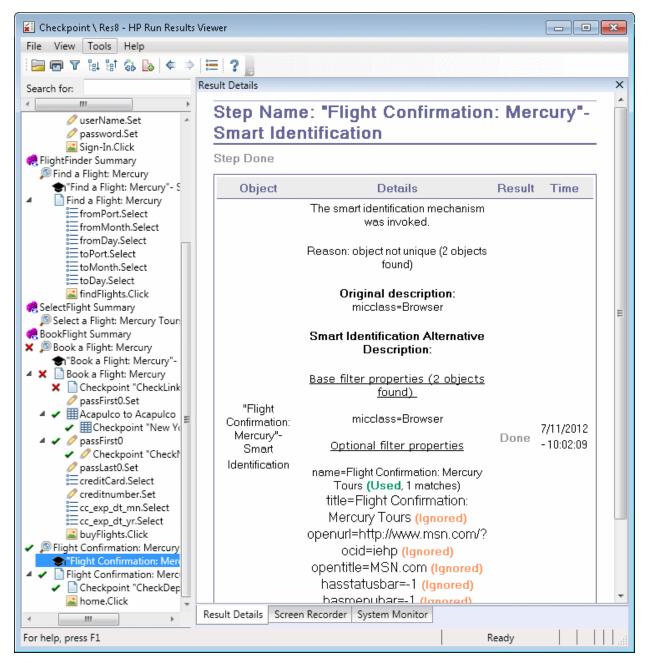
Multiple Objects Match the Learned Description

If UFT successfully uses Smart Identification to find an object after multiple objects are found that match the learned description, UFT shows the Smart Identification information in the Run Results Viewer. The step still receives a passed status, because in most cases, if Smart Identification was not used, the test object description plus the ordinal identifier could have potentially identified the object.

In such a situation, the run results show the following information:

In the results tree	In the Result Details pane
A Smart Identification icon for the missing object. For example:	An indication that the Smart Identification mechanism successfully found the object, and information on the properties used to find the object. You can use this information to create a unique object description for the object, so that UFT can find the object using the description in future run sessions.
The actual step performed. For example:	Normal result details for the performed step.

The image below shows the results for a test or component in which Smart Identification was used to uniquely identify the Flight Confirmation: Mercury object after the learned description resulted in multiple matches.



If the Smart Identification mechanism cannot successfully identify the object, the test or component fails and a normal failed step is displayed in the run results.

Checkpoint and Output Value results

The information displayed in the Run Results Viewer and the available options are determined by the type of checkpoint or output value step you select.

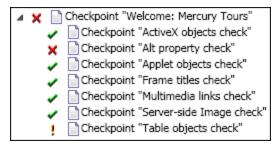
User Guide Chapter 2: Run Results - Understanding Step Results

- "Accessibility Checkpoints" below
- "Bitmap Checkpoints Results" on page 27
- "File Content Checkpoints" on page 28
- "Standard Checkpoint Results" on page 30
- "Table and Database Checkpoint Results" on page 31
- "Text and Text Area Checkpoint Results" on page 32
- "XML Checkpoint Results" on page 33
- "Output Value Results" on page 35
- "File Content Output Values" on page 36
- "XML Output Values" on page 36

Accessibility Checkpoints

When you include accessibility checkpoints in your test, the Run Results Viewer displays the results of each accessibility option that you checked.

The run results tree displays a separate step for each accessibility option that was checked in each checkpoint. For example, if you selected all accessibility options, the run results tree for an accessibility checkpoint may look something like this:



The run result details provide information that can help you pinpoint parts of your Web site that may not conform to the W3C Web Content Accessibility Guidelines. The information provided for each check is based on the W3C requirements.

Note: Some of the W3C Web Content Accessibility Guidelines that are relevant to accessibility checkpoints are cited or summarized in the following sections. This information is not comprehensive. When checking whether your Web site satisfies the W3C Web Content Accessibility Guidelines, you should see the complete document at: http://www.w3.org/TR/WAI-WEBCONTENT/.

Check	you to ensure that pa are not supported or UFT checks whethe objects. If it does no If the page or frame a warning and a list	/3C Web Content Accessi ages are accessible even r are turned off. When you r the selected page or fran t contain any ActiveX obje does contain ActiveX obje of the ActiveX objects so t e pages on browsers witho	when newer technolo select the ActiveX cho ne contains any Active cts, the checkpoint pa ects then the results di that you can check the	ogies eck, eX asses. isplay e
	ActiveX objects che	ck		
	Object Tag	Object Name		
	OBJECT	ControlX		
1				
Alt Property Check	you to provide a text property check chec this guideline, do in does not contain any attribute, the checkp property do not have	W3C Web Content Acces equivalent for every non-ficks whether objects that re- fact have this attribute. If the y such objects, or if all suc- oint passes. If one or more e it, the test fails and the ru- ojects are lacking the attrib	text element. The Alt quire the Alt property he selected frame or p h objects have the red objects that require t n result details displa	under bage quired the
Property	you to provide a text property check chec this guideline, do in does not contain any attribute, the checkp property do not have	equivalent for every non-technology in the end of the e	text element. The Alt quire the Alt property he selected frame or p h objects have the red objects that require t n result details displa	under bage quired the
Property	you to provide a text property check chec this guideline, do in does not contain any attribute, the checkp property do not have that shows which ob	equivalent for every non- ks whether objects that re- fact have this attribute. If the such objects, or if all suc- oint passes. If one or more the it, the test fails and the ru	text element. The Alt quire the Alt property he selected frame or p h objects have the red objects that require t n result details displa	under bage quired the
Property	you to provide a text property check check this guideline, do in does not contain any attribute, the checkp property do not have that shows which ob	equivalent for every non-test whether objects that re- fact have this attribute. If the success or if all success, or if all success or if all success or the second secon	text element. The Alt quire the Alt property he selected frame or p sh objects have the red objects that require t in result details displa oute. For example:	under bage quired the

The Captured Data pane displays the captured page or frame, so that you can see the objects listed in the Alt property check list.

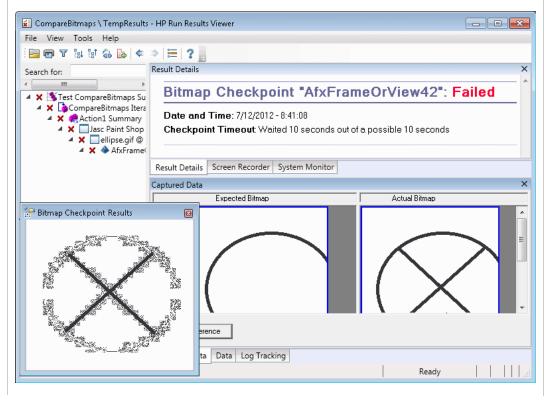
Applet Check	The Applet Check also helps you ensure that pages are accessible, even when newer technologies are not supported or are turned off (Guideline 6 of the W3C Web Content Accessibility Guidelines), by finding any Java applets or applications in the checked page or frame. The checkpoint passes if the page or frame does not contain any Java applets or applications. Otherwise, the results display a warning and a list of the Java applets and applications. For example:				
	Applet objects check				
	Object Tag Object Name				
	APPLET		JavaClock	class	
	Page objects ha frames within it more frames, do display a list tha Frame titles che	ave the TITLE ta have titles, the p not have the ta at shows which eck	g. If the selected checkpoint passe ag, the test fails a objects are lacki	hecks whether Frame and page or frame and all es. If the page, or one or and the run result details ng the tag. For example:	
	Object Class	Object Tag	Object Name	Title Value	
	Frame	IFRAME	takeOver	Takeover Ad	
	Frame	IFRAME	adSpotFrame5	Click here to find out more!	
	Frame	IFRAME	theFrame	[NONE]	
	Page		Page.com	Page.com	
	The Captured Data pane displays the captured page or frame, so that you can see the frames listed in the Frame Titles check list.				
Multimedia Links Check					

Server- Side Image Check	Guideline 1.2 of the W3C Web Content Accessibility Guidelines requires you to provide redundant text links for each active region of a server-side image map. Guideline 9.1 recommends that you provide client-side image maps instead of server-side image maps except where the regions cannot be defined with an available geometric shape. When you select the Server-side Image check, UFT checks whether the selected page or frame contains any server-side images. If it does not, the checkpoint passes. If the page or frame does contain server-side images, then the results display a warning and a list of the server-side images so that you can confirm that each one answers the guideline requirements. For example:			
	Server-side Image check			
	Object Class Object Name			
	Image [Historical Congressional Documents]			
Tables Check	Guideline 5 of the W3C Web Content Accessibility Guidelines requires you to ensure that tables have the necessary markup to be transformed by accessible browsers and other user agents. It emphasizes that you should use tables primarily to display truly tabular data and to avoid using tables for layout purposes unless the table still makes sense when linearized. The TH, TD, THEAD, TFOOT, TBODY, COL, and COLGROUP tags are recommended so that user agents can help users to navigate among table cells and access header and other table cell information through auditory means, speech output, or a Braille display. The Tables Check checks whether the selected page or frame contains any tables. If it does not, the checkpoint passes. If the page or frame does contain tables, the results display a warning and a visual representation of the tag structure of the table. For example:			
	Table objects check			
	Object Class Object Name Table Structure			
	WebTable Table 1			

Bitmap Checkpoints Results

The Result Details pane displays the checkpoint step results, including its status (**Passed** or **Failed**), the date and time the checkpoint was run and the portion of the checkpoint timeout interval that was used (if any).

WhenThe Captured Data pane shows the expected and actual bitmaps thatComparingwere compared during the run session, and a View Difference button. WhenExpectedyou click the View Difference button, UFT opens the Bitmap CheckpointBitmapsResults window, displaying an image that represents the differencewithbetween the expected and actual bitmaps. This image is a black-and-Actualwhite bitmap that contains a black pixel for every pixel that is different in
the two images. Similar results would be displayed for a component.



When Locating Specified Bitmaps in Actual Bitmaps	The Captured Data pane shows the actual bitmap of the runtime object in the application and the source bitmap that UFT attempted to locate within the object. It may also show the coordinates of a possible candidate that was found, and the image similarity percentage used to find the candidate.				
		Note: By default, the information in the Captured Data pane is available only if the bitmap checkpoint fails. You can change the conditions for when bitmaps are saved in the run results, using the Save still image captures to results option in the Screen Capture pane (Tools > Options > GUI Testing tab > Screen Capture node) of the Options dialog box.			

Considerations

- When comparing bitmaps, if the checkpoint is defined to compare only specific areas of the bitmap, the run results display the actual and expected bitmaps with the selected area highlighted.
- When comparing bitmaps, if the dimensions of the actual and expected bitmaps are different, UFT fails the checkpoint without comparing the bitmaps. In this case the **View Difference** functionality is not available in the results.
- The **View Difference** functionality is not available when viewing results generated in a version of QuickTest earlier than 10.00.
- If the bitmap checkpoint is performed by a custom comparer:
 - UFT passes the bitmaps to the custom comparer for comparison even if their dimensions are different.
 - The Result Details pane also displays the name of the custom comparer (as it appears in the **Comparer** box in the Bitmap Checkpoint Properties dialog box), and any additional information provided by the custom comparer.
 - The difference bitmap is provided by the custom comparer.

File Content Checkpoints

The Result Details pane displays detailed results of the selected checkpoint, including its status (**Passed** or **Failed**), and the date and time the checkpoint was run. It also displays the number of lines that were checked, the number of changes found in the checked lines, and the total number of changed lines found in the file (including both the lines that were selected in the checkpoint and the lines that were not).

The details area also specifies whether the checkpoint includes the following options: Match case, Ignore spaces, Verify page count, and Fail checkpoint for added or removed lines For failed steps, the Captured Data pane displays any differences found for all lines in the actual file, regardless of whether they were selected for comparison in the checkpoint. An asterisk (*) adjacent to the line number indicates that a regular expression was selected for comparison against the actual file.

In the following example, the details of the failed checkpoint indicate that the expected results and the current results do not match.

- The expected value in line 1 is not identical to the actual value.
- The asterisk (*) in line 1 indicates that a regular expression was selected for comparison against the actual file *and* the lines in the expected and actual files are different.
- Lines that were selected for comparison are displayed in black. Lines that were not selected for comparison are displayed in light grey.
- The last line exists in the source (expected) file but is missing from the actual file. This line was not selected for comparison, so its textual content is displayed in grey instead of black.

• No lines were added to the actual file.

Result Details	×
File Content Checkpoint "	JDF_Test.txt": Failed
Date and Time: 7/12/2012 - 10:42:48	
Details	
Checked lines: 6 Changes found (checked lines): 1 Changes found (all lines): 1	
Match case: ON Ignore space: OFF Verify pages count: OFF Fail checkpoint for added or removed lines: OF	F
	*
Result Details Screen Recorder System Monitor	
Captured Data	×
	🔕 Modified[1] 🖨 Deleted[0] 🔇 Added[0]
File Content Text (Expected)	File Content Text (Actual)
iry Tours").WebEdit("userName").Sel "tutorial" iry Tours").WebEdit("password").SetSecure "4b4 iry Tours").Image("Sign-In").Click 15,8 !rcury").WebRadioGroup("tripType").Seled "onev !rcury").WebRadioGroup("tripType").VerifyEnabl ne"	ry Tours").WebEdit("userName").Set "Sample" ry Tours").WebEdit("password").SetSecure "4b ry Tours").Image("Sign-In").Click 15,8 rcury").WebRadioGroup("tripType").Seled "on rcury").WebRadioGroup("tripType").VerifyEnal ne"
۲ (III) (IIII) (III) (I	۰
Captured Data Data Log Tracking	

Standard Checkpoint Results

The Result Details pane displays detailed results of the selected checkpoint, including its status (**Passed** or **Failed**), the date and time the checkpoint was run, and the portion of the checkpoint timeout interval that was used (if any). It also displays the values of the object properties that are checked, and any differences between the expected and actual property values.

The Captured Data pane displays the image capture for the checkpoint step (if available).

In the following example, the details of the failed checkpoint indicate that the expected results and the current results do not match. The expected value of the flight departure is **Paris**, but the actual value is **Frankfurt**.

Result Details	×
Standard Checkpoint "CheckLinks": Failed	i î
Date and Time: 7/12/2012 - 9:54:24	E
Details	
Page Check	
Property Name Property Value	
"1" Ioad time "267"	
number of "11"	-
Result Details Screen Recorder System Monitor	
Captured Data	×
	<u> </u>
Billing Address	
Address: 1325 Borregas Ave.	(=)
Citra Communita	-
	•
Captured Data Data Log Tracking	

Table and Database Checkpoint Results

The results displayed for table and database checkpoints are similar. The Result Details pane displays the checkpoint step results, including its status (**Passed** or **Failed**), the date and time the checkpoint was run, the verification settings you specified for the checkpoint, and the number of individual table cells or database records that passed and failed the checkpoint.

If the checkpoint failed, the Captured Data pane shows the table cells or database records that were checked by the checkpoint. Cell values or records that were checked

are displayed in black; cell values or records that were not checked are displayed in gray. Cells or records that failed the checkpoint are marked with a failed **x** icon.

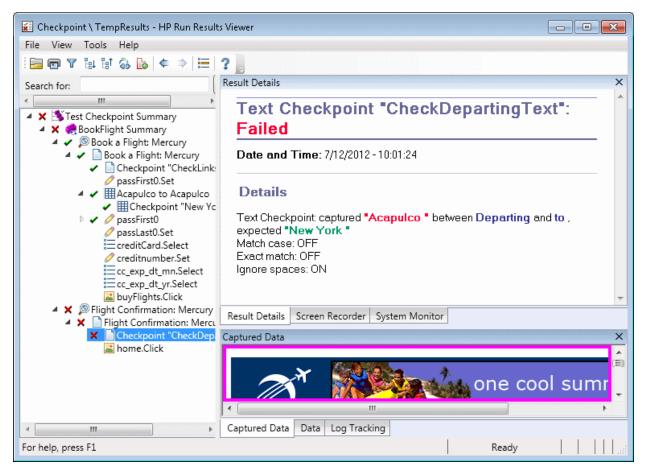
😰 Checkpoint \ TempResults - HP Run Results Viewer 📃 💼 📼
File View Tools Help
i 🔚 📼 🔽 iki 🕼 ik 🖕 i 🗢 i 🔚 i 🤋 📕
Search for: Result Details X
Standard Checkpoint "Flight Details": Failed
 Kernel FlightFi Kernel Find Kern
Details Details Verification type: String Content. Settings: Exact match - ON; Ignore space - ON; Match case - OFF. Results: Checked 28 cells; Succeeded: 27; Failed: 1
Result Details Screen Recorder System Monitor
Captured Data X
1 2 1 X 2 Type: Round 3 Passen 1 2 3 4
Captured Data Data Log Tracking
For help, press F1 Ready

The following is an example of the results for a table checkpoint:

Text and Text Area Checkpoint Results

The Result Details pane displays the checkpoint step results, including its status (**Passed** or **Failed**), the date and time the checkpoint was run and the portion of the checkpoint timeout interval that was used (if any). It also shows the expected text and actual text that was checked, and the verification settings you specified for the checkpoint.

The following is an example of the results for a text checkpoint:



XML Checkpoint Results

The Result Details pane displays the checkpoint step results.

The Captured Data pane shows the details of the schema validation (if applicable) and a summary of the checkpoint results. If the schema validation failed, the reasons for the failure are also shown.

If the checkpoint failed, you can view details of each check performed in the checkpoint by clicking **View XML Checkpoint Results** in the Captured Data pane. The XML Checkpoint Results window opens, displaying details of the checkpoint's failure.

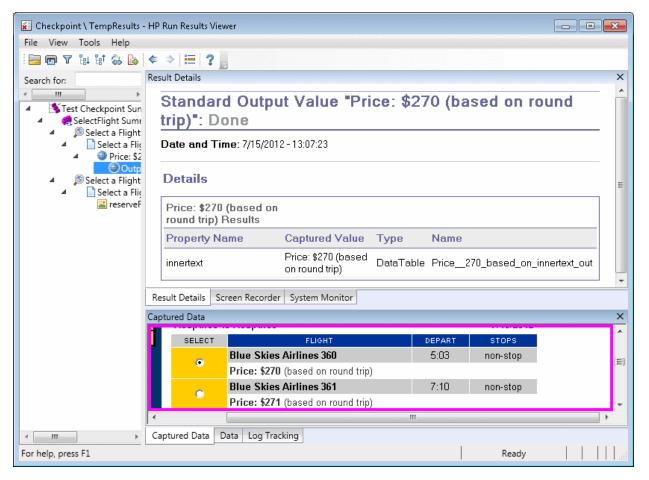
The following is an example of the results for an XML checkpoint:

📕 Checkpoint \ Te	empResults - HP Run Results Viewer	×
File View Tool	ls Help	
i 📴 👦 🝸 🦦 i	let 🚳 խ 🗢 🗢 🗮 🥐 📙	
Search for:	Result Details	×
 ✓ Ⅲ → ✓ ★ ★ Test Ch 	XML Checkpoint "note.xml": Failed	^
▲ 🗙 🤗 XML ▲ 🗙 🔤 n 🗙 🐷	Date and Time: 7/12/2012 - 10:58:04	
	Details	
	XML Checkpoint failed.	-
	Result Details Screen Recorder System Monitor	
	Captured Data	×
	XML Checkpoint	Î
	XML Validation: FAILED	Ξ
	XML Checkpoint type: File	
	View XML Checkpoint Results	-
۰ <u>۱۱۱</u> ۲	Captured Data Data Log Tracking	
For help, press F1	Ready	

Note: By default, if the checkpoint passes, the View XML Checkpoint Results button is not available. The availability of these detailed results is dependent on the Save still image captures to results setting in the Screen Capture pane (Tools > Options > GUI Testing tab > Screen Capture node) of the Options dialog box.

Output Value Results

The Result Details pane displays detailed results of the selected output value step, including its status, and the date and time the output value step was run. It also displays the details of the output value, including the value that was captured during the run session, its type, and its name, as shown in the following example. Similar results would be displayed for a component.



File Content Output Values

The Result Details pane displays the results of the file content output value step, including its status, the date and time the step was run, and details for the parameterized file content output value. This pane also shows the configuration settings (whether **match case** and **ignore spaces** were set), as shown in the following example.

);	ate and Time: 7/15/2012 -	-13:14	1:55		
D	etails				
Parameter		Match			
F	Command	Line	Found	Text	Lines
1	DataTable("FileContent_ Acapulco_out", dtGlobalS heet)	1	0	Acapulco	1-1
2	DataTable("FileContent_L ondon_out", dtGlobalShe et)	2	0	London	2-2
3	DataTable("FileContent_F rankfurt_out", dtGlobalSh eet)	3	0	Frankfurt	3-3
4	DataTable("FileContent_ New_out", dtGlobalSheet)	4	0	New York	4-4

XML Output Values

The Result Details pane displays a summary of the output value results.

From the Captured Data pane, you can view detailed results by clicking **View XML Output Value Results** to open the XML Output Value Results window. The following is an example of the results for an XML output value:

😰 Checkpoint \ TempResults - HP Run Results Viewer 📃 💷 💌
File View Tools Help
i 🔚 🖻 Y iụ từ 🗞 🔥 ⇐ ⇒ ☵ ? 📙
Search for: Result Details X
XML Output Value "note.xml": Done
 XMLOutpine Image: Amount and Amount and
Details
XML Output Value
Result Details Screen Recorder System Monitor
Captured Data X
XML Output Value
XML Output Value type: File
View XML Output Value Results
Captured Data Data Log Tracking
For help, press F1 Ready

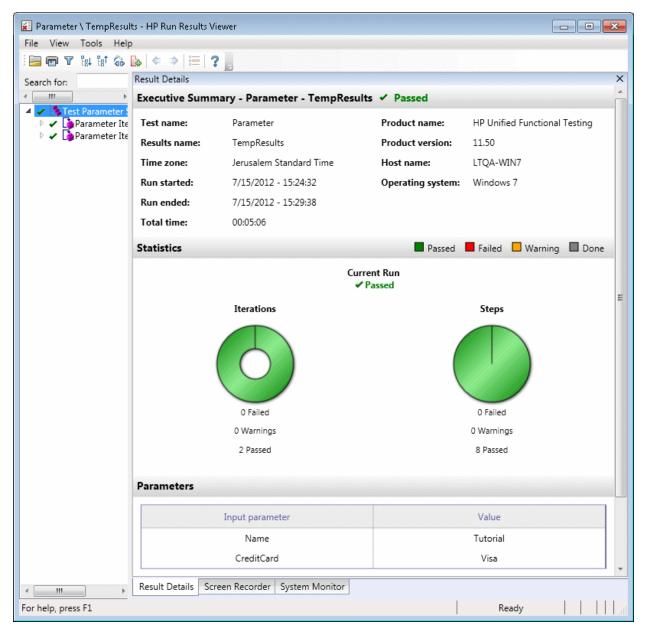
Note: By default, the View XML Output Value Results button is available only when an error occurs. The availability of these detailed results is dependent on the Save still image captures to results setting in the Screen Capture pane (Tools > Options > GUI Testing tab > Screen Capture node) of the Options dialog box.

Parameterized values in the run results

A **parameter** is a variable that is assigned a value from an external data source or generator for a test, or from within a component. You can view the values for the parameters defined in your test or component in the Run Results Viewer.

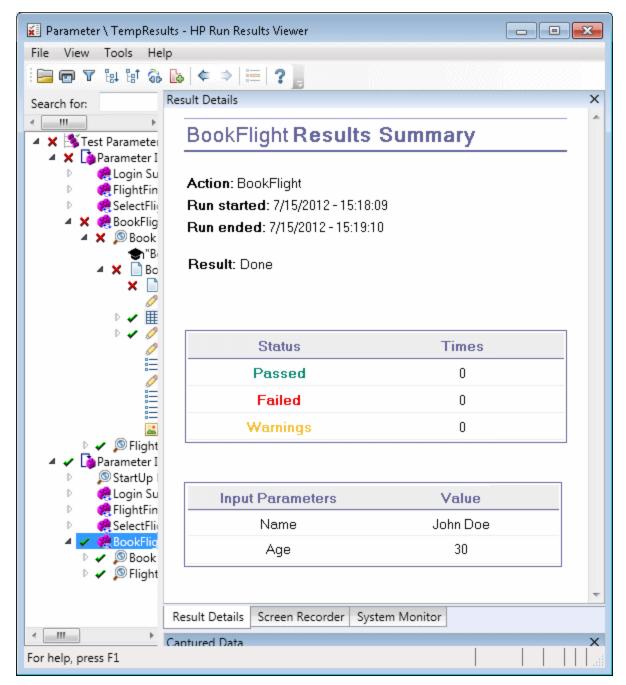
To view parameterized values, expand the nodes in the run results tree and click the root node to view test or component input and output parameters, or click an action node that contains parameterized values (tests only).

Test and component parameters are displayed in the **Parameters** section of the Executive Summary area of the Results Details pane, which you display by clicking the root node of the run results tree. The example below shows input test parameters. The **Parameters** section would be identical for input component parameters.



If output test or component parameters were defined, they would be displayed in this pane beneath the input parameters.

For action parameters, the name and value of the input and output parameters are displayed in the Result Details pane. Similar results would be displayed for a component.



The example above shows input parameters that were defined at the action level. If output parameters were defined at this level, they would also be displayed in this pane.W

GUI Tests containing calls to UFT API /Service Test Tests

If your test contains a call to a UFT API or Service Test test, you can view the results of that test in the run results. The run results tree displays all of the GUI test-specific nodes that preceded the call to the UFT API or Service Test test, all of the UFT API or Service Test test-specific nodes from that test call, and all of the GUI test-specific nodes that followed that call.

Send Us Feedback



Let us know how we can improve your experience with the User Guide. Send your email to: docteam@hpe.com



