

Spirent iTest 8.0

Release Notes (Rev A)

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What's New in iTest 8.0?

Release Themes

Each major release of iTest has one or more themes that drive feature selection. The primary focuses of iTest 8.0 are listed in the table below.

Theme	Major New Capabilities
FOSS Ecosystem	<ul style="list-style-type: none"> • Python editor • Robot Framework editor • Python data structures passed to / from QuickCalls • Password encryption for Python SLC and Robot Framework tests • Assign tags to test cases
Reporting	<ul style="list-style-type: none"> • Display of test case artifacts • Step documentation available in custom report data model • On demand test report aging
Velocity Integrations	<ul style="list-style-type: none"> • Import captures from Velocity sessions • Velocity Report ID command
Sessions	<ul style="list-style-type: none"> • REST session workflows <ul style="list-style-type: none"> • History displayed from capture database • Save As / Insert variable within interactive session • Swagger v2 / OAS v3 support • IxNetwork REST Session • CyberFlood DDoS and real-time statistics support • Selenium capture support for target by XPATH, CSS, and LinkText • Wireshark decode in PDML format • Ranorex 9.1 Compatibility
Ease of Use	<ul style="list-style-type: none"> • Find text in "Response" view • Alert indication removed from private procedure icon • Main procedure warning suppressed in QuickCall libraries • iTest Expert perspective button

Note: Both 64 bit iTest GUI and iTestRT no longer require a license proxy server, as was required in previous versions. However, 64 bit iTest GUI and iTestRT clients require version 11.12.1 or higher of the FlexLM license server.

Version 11.14 of the FlexLM for both Windows and Linux are now available for download from the Spirent CSC.

Known Issues

JIRA Task	Description
ITEST-17351	When opening a 7.2 or 7.3 workspace for the first time in iTest 8.0, a message displays "rebuilding internal caches" (pydev).
ITEST-17347	In RHEL 7.6 environment, ensure that the variable LD_LIBRARY_PATH is set to the correct library path. If the library path is not set correctly, an execution.python error appears when running iTest RT on Linux (RHEL 7.6).
ITEST-17346	iTest 8.0 has a new feature called 'Artifact Links' where test case artifacts like PCAP files or log files are added to the test report as hyperlinks. To ensure that the tags and artifact links appear in test reports, the resources folder must have 8.0 report templates, and won't work with templates from previous versions. It is recommended that you either use a new workspace or delete the resources folder and re-start iTest. Note: iTest rebuilds the resources folder and its contents.
ITEST-17324	Quotes are removed from variables encased with quotes. See Behavioral Changes for details.
ITEST-17304	To ensure that charts display in Ubuntu 18.04 LTS environment, install the following library. apt-get install fontconfig
ITEST-17302	The PyDev code analysis will be applied automatically to your python scripts only if you add your project/folder to PYTHONPATH (Right Click and PyDev > Set as source folder (add to PYTHONPATH)).
ITEST-17293	Terminal logs such as: "GLib-CRITICAL **: 01:22:52.152: g_base64_encode_step: assertion 'in != NULL' appear when running iTest on Ubuntu 18 See https://bugs.eclipse.org/bugs/show_bug.cgi?id=530781 to fix console logs issues. Recommend changing to the "ubuntu" theme.
ITEST-17216	Once a Swagger 2.0 or OpenAPI 3.0 collection is added to iTest, it cannot be removed.
ITEST-17203	iTest allows you to import only published APIs expressed in Swagger v2 and OAS v3 formats, that includes JSON and YAML files.
ITEST-17143	In some cases, it's necessary to set the PS1 environment variable to \$, for example by issuing export PS1="\$" from bash for iTest to correctly install on Linux.
ITEST-17109	Due to a third-party issue it is not possible to open .robot file by using Open file. An error that says "Unable to open editor" displays.
ITEST-17105	Due to a third-party issue, an error appears in the Error Log when you configure first in PATH (clicking button Config first in PATH and then Apply and Close button) for Python interpreter.
ITEST-17041 ITEST-16670	For sessions, if you change a setting to overwrite an inherited value and then type in the inherited value manually, the pencil icon displays. Right click and select Inherit to restore the inheritance setting.
ITEST-15892	For Selenium IDE, password masking is available only for certain browsers. Password is masked when iTest receives "TypeSecret" type of event from Selenium driver. Some browsers support this type of events (e.g., Firefox) and some do not (e.g., Google Chrome).

JIRA Task	Description
ITEST-14744	<p>The Ranorex 'Back' action on web pages works intermittently. This is an issue with Ranorex Studio 9.1.</p> <p>Workaround: Click twice on the Back button to go back to the previous page. iTest 8.0 captures 2 steps in this case.</p>
ITEST-13571	<p>Due to Microsoft PowerShell 2.0 bug, autocomplete does not work in PowerShell session in Windows 7 with PowerShell 2.0.</p> <p>Workaround: Upgrade PowerShell in Windows 7 to a version higher than 2.0.</p>
INT-5808	<p>It is recommended not to close Ranorex Recorder application after completing the test to ensure that iTest captures all actions. Rather, close the session window when finished capturing.</p>
INT-5790	<p>Ranorex Session requires administrator permission to remove a device that is not connected anymore from Ranorex mobile endpoints wizard.</p>
INT-5785	<p>Currently, iTest Ranorex session converts individual record items to iTest capture steps based on absolute RanoreXPath.</p> <p>This may cause problems when the RanoreXPath to the app (or rooted) folder changes for an existing element, e.g., when the title of an application changes during automation.</p> <p>Only using the absolute RanoreXPath of items may not work in all cases. Without Ranorex caching mechanism, replaying a recording may not work.</p>
INT-5781	<p>Tests developed using Ranorex 8 must be converted to version 9.</p> <p>See: https://www.ranorex.com/forum/ranorex-runtime-backward-compatibility-t13635.html</p>

Resolved/Fixed Customer Issues

JIRA Task	Description
ITEST-17236	Spirent TestCenter REST action reference does not display
ITEST-16968	Selenium session waitfortarget step waits endlessly for a target.
ITEST-16904	iTest tbml wizard in Python creates invalid command.
ITEST-16899	Issues with iTest Landslide Automation command ShowRunningTestFavoritesMeasurements
ITEST-16898	iTest prompts error when upgrading from 5.1 to 7.x
ITEST-16861	iTest STC showPorts <WIFI port id> command does not work with 2.4GHz configuration
ITEST-16849	Issues when creating JSON documents using Python interpreter.
ITEST-16848	iTest appends newline to Python integers/floats when passing them to a procedure and causes bad formatting that could cause issues.
ITEST-16847	iTest selenium Replay does not recognize target even when ID is used.
ITEST-16823	Python session does not open in Windows Server 2016.
ITEST-16822	iTest STC Lab Server REST API endpoint does not work on 4.94 appliance
ITEST-16814	iTest doesn't honor restriction when set in agent mode.
ITEST-16809	Command interpretation difference between iTest 7.1 and iTest 7.3.
ITEST-16793	Analysis rules indented under a comment step are not exported to Python script.
ITEST-16635	Issues when selecting SVN updated projects.
ITEST-16509	iTest STC port mapping fails when STC Chassis saved .xml is loaded to STC Virtual.
INT-5718	DHCP Session Results View shows incomplete information.

Behavioral Changes

String variables containing single quotes were previously surrounded with double quotes upon field substitution. In iTest 8.0, the substituted string variable is no longer surrounded with double quotes. The following shows the syntax supported in iTest 7.3 and the changes in iTest 8.0.

iTest 7.3.Behavior

When using the Python interpreter, response *is* surrounded by double quotes:

The screenshot displays the iTest 7.3 interface. The 'Steps' panel shows a procedure named 'main' with three steps:

Action	Session	Description
1 eval		str = "foo 'whatever' bar"
2 open	s1	application:com.fnfr.svt.applications.cmd
3 command	s1	echo [str]

The 'Step Properties' panel is open to the 'Response' tab. The command field contains: `command: echo "foo 'whatever' bar"`. The response field contains: `"foo 'whatever' bar"`. A red arrow points from the text `"foo 'whatever' bar"` to the response field, with the label `iTest 7.3: string surrounded by double quotes`.

iTest 8.0 Behavior

When using the Python interpreter, response *is no longer* surrounded by double quotes:

The screenshot displays the iTest 8.0 interface. At the top, there is a toolbar with various icons. Below it, a 'Steps' panel shows a procedure named 'main' with three steps:

Action	Session	Description
1 procedure		main
1 eval		str = "foo 'whatever' bar"
2 open	s1	application:com.fnfr.svt.applications.cmd
3 command	s1	echo [str]

Below the steps panel is the 'Step Properties' section, which includes tabs for General, Steps, Requirements, Global Events, Global Rules, Parameters, Custom types, and Reference Files. The 'Steps' tab is active, showing a 'Response' pane. The command entered is 'command: echo foo 'whatever' bar'. The response shown is 'foo 'whatever' bar'. A red arrow points from the text 'iTest 8.0: string not surrounded by double quotes' to the single quotes in the response.

In iTest 8.0, the Python interpreter trims double quotes encasing the string values.

This affects the default arguments for procedures in Python syntax.

If the analysis rules in your test cases for checking response of any Python command includes double quotes, the analysis rules may need to be modified when running 8.0 and beyond.

Planning for Upcoming Operating Systems and Library Certifications

1. The iTest 8.0 release will be the last release to support Windows Server 2016. Please make plans to migrate to Windows Server 2019 in order to run future releases of the iTest product line.
2. The iTest 8.1 release will be the last release to support Windows 7. Please make plans to migrate to Windows 10 in order to run future releases of the iTest product line.

Installation Instructions

Spirent iTest Installation Guide provides software installation and licensing. The document is available on the Spirent Knowledge Base (<https://support.spirent.com/SpirentCSC/>).

Documentation

User documentation is available in PDF and Online Help formats.

The Online Help files included in the applications; provide reference information and context-sensitive user support. Launch a Help file by pressing **F1** or by clicking the **Help** button in the menu bar or on a dialog box.

Documents are delivered in PDF format to support product installation and use. The documents are available in the **iTest** group on the Spirent Knowledge Base (<https://support.spirent.com/SpirentCSC/>).

Spirent iTest User Guide	
iTest Installation Guide	
Spirent iTest Release Notes	https://support.spirent.com/SpirentCSC/SC_KnowledgeView?id=DOC10692
Additional iTest Documentation	
APT Licenser Server Installation Guide	https://support.spirent.com/SpirentCSC/SC_KnowledgeView?id=DOC11183

Contacting Spirent

Spirent products and services

Information about Spirent Communications and its products and services appears on the company website at <http://www.spirent.com>

To obtain technical support for any Spirent Communications product, please contact our Support Services department using any of the following methods:

Americas

Web: <https://support.spirent.com>

E-mail: support@spirent.com

Toll Free: North America

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(+1 800-774-7368)

Spirent Federal (U.S.)

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Information about our global office locations can be found at [https://www.spirent.com/About Us/Locations](https://www.spirent.com/About_Us/Locations)

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