Velocity iTest

Version 26.2

System Release Summary (Rev A)

April 2026

Velocity iTest

Version 26.2 – *System Release Summary (Rev A)*

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Overview

This document contains information about the enhancements, fixes, and known issues in Spirent iTest release 26.2. In addition, a summary of a few of the new features and enhancements is now included in this document. See section Velocity iTest Feature Summary.

Enhancements

Each major release of iTest has one or more themes that drive feature selection. The primary focuses of iTest 26.2 are listed in the table below.

Note: The link in the **Functionality/Capabilities** column takes you to the section which describes the feature summary.

Theme	Functionality/Capabilities
Functionality	Dependent Project Notifications • Reduce error and time to correct when projects are missing • Reduce error and time to correct when projects are missing
	Label Snapshots in Selenium Session • Annotate screenshots taken during Web App testing driven from Selenium • Faster results analysis by showing context in the screenshots gathered in final test reports
	Agent Debugging Improvements • Additional log information in execution agents • Faster root cause analysis and troubleshooting failures
	UI enhancements
Certifications	Spirent TestCenter, Landslide, Avalanche, Ixia, Ranorex • Windows 11, Windows Server 2022 • macOS Tahoe • RHEL 9.5 64 • Ubuntu 24.04 LTS 64 • Python 3.12.3

Known Issues in iTest 26.2

This section lists known, unresolved issues in this release.

JIRA Tasks	Summary
ITEST-25578	Command-line iTest sessions that previously displayed command proposals when typing '?' (e.g., File, Process, IxNetwork REST) now use the Tab key for this functionality. The updated behavior is as follows: if there is a single possible completion for the current input, pressing Tab auto-completes the command; if multiple completions are available, the session displays their descriptions.

Fixes in iTest 26.2

This section lists fixed issues in this release.

JIRA Tasks	Summary
ITEST-25578 SR-01700039	Add guidance on how to include parameters (such as *skip* and *take*) in REST IxNetwork API calls.
ITEST-25402 SR-01660781	Issues with test.log file being created with error.

Velocity iTest Feature Summary

These sections include information relevant to the feature updates in Velocity iTest version 26.2.0. Refer to the Online Help embedded with the product for details.

Note: Refer to the product documentation (Installation Instructions and Documentation).

Dependent Project Notifications

When exporting projects, iTest notifies the user if not all projects that the parameters file depends on have been included in the export, even if those projects are not explicitly marked as dependencies.

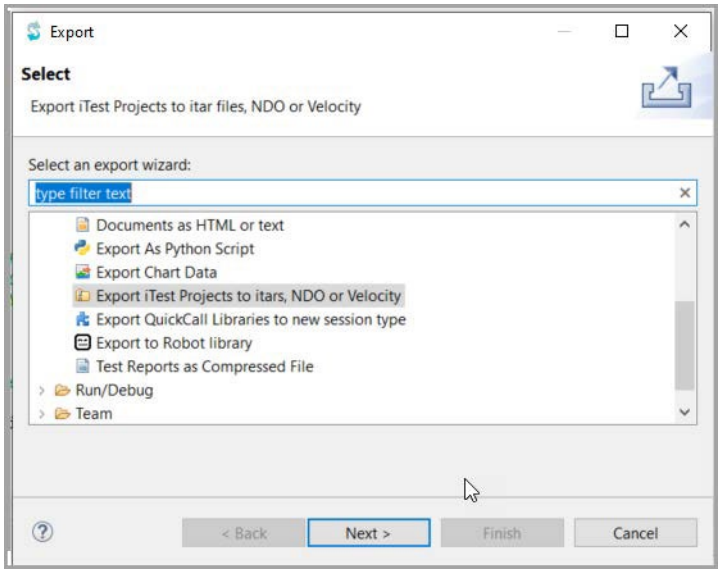
- Reduce error and time to correct when projects are missing
- Reduce error and time to correct when projects are missing

See the Velocity iTest 26.2 User Guide on CSC (Installation Instructions and Documentation) and or the embedded Online help.

Exporting iTest projects as iTar files, Network DevOps Agent, or Velocity

You export projects to an iTar file in a folder that you specify.

1. First ensure that all projects are properly built. The easiest way to ensure a current build is to click **Project > Clean > Clean all projects**.
2. In the Project Explorer, right-click the project and then select **Export**.
3. On the **Select** page, select **iTest > Export iTest Projects to iTar files, Network DevOps Agent or Velocity** and then click **Next**.



4. On the **Select Projects** page, select **Export Projects to itars, NDO or Velocity** and click **Next**

to display the **Export Projects to Itars** dialog.

Perform these tasks on the **Export Projects to itars, NDO or Velocity** dialog.

a Select the project or projects to export. (If you started the wizard by right clicking a project, then the project is selected for you).

You may click Select All, Unselect All, or Update Project Dependencies to rebuild project.

- **Select All:** Click to select the project and the listed project dependencies.
- **Unselect All:** Click to clear the current section.
- **Update Project Dependencies:** Click to rebuild existing or newly added project dependencies. The wizard automatically selects the dependent projects and rebuilds, if you have selected the Add Dependent Projects option.

When the dependent project is not declared in iTest Project Dependencies, iTest displays warnings, which you may fix. See "Updating project dependencies" on page 953.

b. Add Dependent Projects: To ensure that all referenced and dependent files are included the **Add Dependent Projects** option is selected by default and all declared dependent projects are selected in the list of projects to be exported.

If you un-select the **Add Dependent Projects** option, the dependent projects will not be automatically selected in the list of projects to be exported (and will not remove any projects previously selected).

You may manually add or remove projects you wish to export.

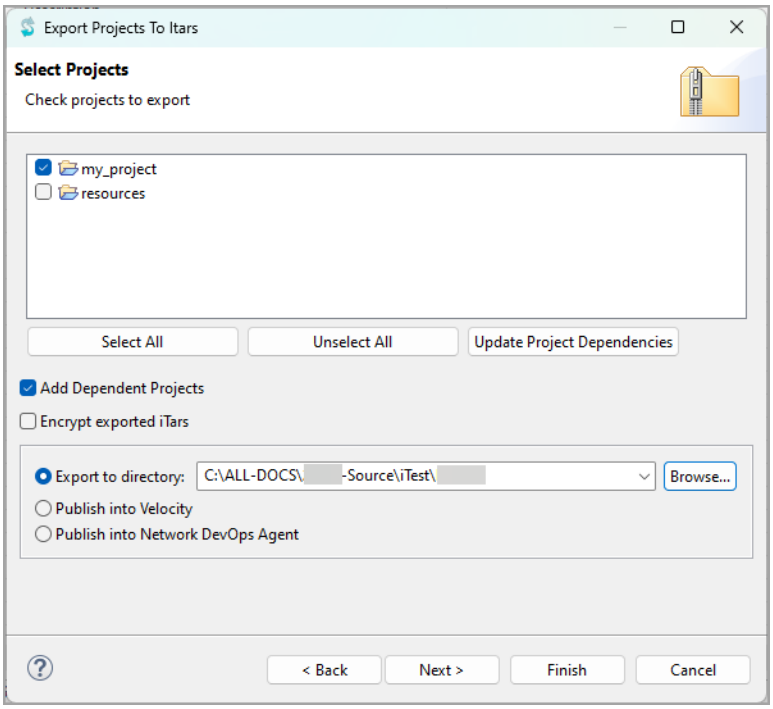
iTest exports each required project to an individual iTar file in the folder specified in **Export to directory**. (Projects that are already stored in iTar format are not compressed again).

Note: To avoid dependent projects from being automatically added to exported iTar, unselect **Add Dependent Projects**, select only the required project dependencies and then click the **Rebuild Project Dependencies** button.

1. Select one of these options: "Export to Directory", "Publish into Velocity", or "Publish into Network DevOps Agent". Then select "Encrypt exported iTars", if required.

Export to Directory

In the **Export to directory** field, specify the folder or browse to the folder to export the iTar files.



For example, this can be a location in your regression system under source control. (For instructions on accessing files that are stored in iTar files, see “Accessing iTest files that are held in iTar files” on page 1098.)

You have the following options:

- Save all iTar files to a central location (typically under source control). Any reference to a file using a **project://** URI in an instance of iTest or iTestRT will look in this location to find files that are included in an iTar file.
- While browsing to the folder, create a subfolder directly under a shared workspace root directory and name the subdirectory **iTar**. Any instance of iTest will, by default, look in this location to find files that are included in an iTar file.
- Select **Encrypt exported iTars**, if required. See “Encrypt exported iTars” on page 1090.
  - When Export to directory and Encrypt exported iTars are selected, the Next option does not display.

    Click Finish. See “Click Finish to create iTar files” on page 1097.
  - When Export to directory is selected and Encrypt exported iTars is not selected, click Next option is available. Click Next to display the Signing Artifacts page. Go to “Signing Artifacts” on page 1096 to sign the artifacts and then create iTars.

Encrypt exported iTars

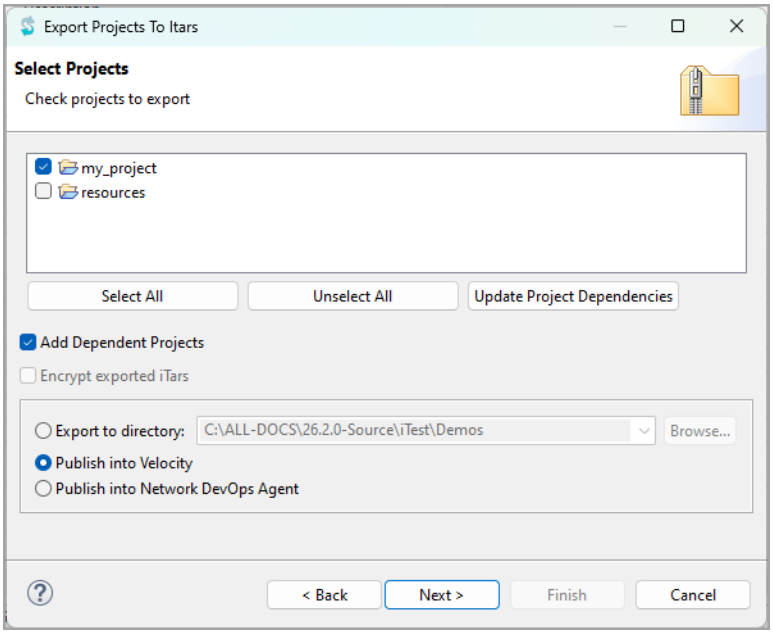
iTest allows you to encrypt the iTars and distribute them for execution without revealing the content. Select **Encrypt exported iTars** if required.

If the checkbox is not selected: • All three options, "Export to Directory", "Publish into Velocity", and "Publish into Network DevOps Agent" are available • When **Publish into Velocity** is selected, the **Encrypt exported iTars** checkbox is not available for selection.
If the **Encrypt exported iTars** checkbox is selected: • Only the options **Export to directory** and **Publish into Network DevOps Agent** are available. • When **Export to directory** is selected, the **Next** button at the bottom of the **Export Projects to iTars** window is disabled and the **Sign Assets** window will not be available. • When **Publish into Network DevOps Agent** is selected, you may sign artifacts and publish to Network DevOps Agent. See "Publish into Network DevOps Agent" on page 1093. • Publish into Velocity is disabled.

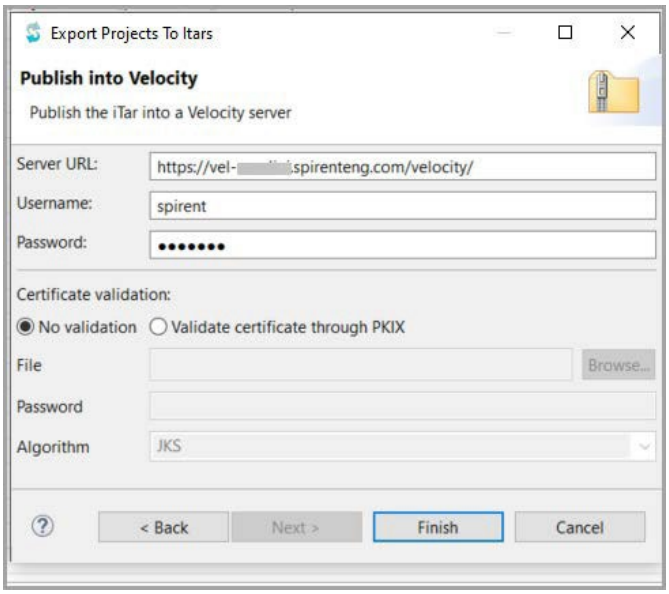
Publish into Velocity

Select Publish into Velocity on the Export Projects to iTars - Select Projects window.

Note: When **Publish into Velocity** is selected, the **Encrypt exported iTars** checkbox is not available for selection. See "Encrypt exported iTars".



Click Next on the Export Projects to iTars - Select Projects window to open the Publish into Velocity window.

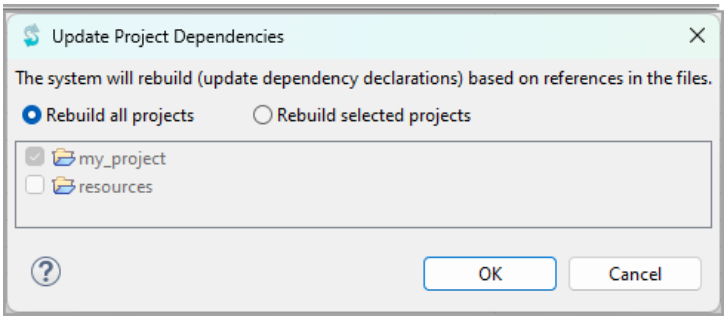


Note: See these section in Chapter "The iTest Builder" in the Velocity iTest 26.2 User Guide or the embedded Online help.

Updating project dependencies

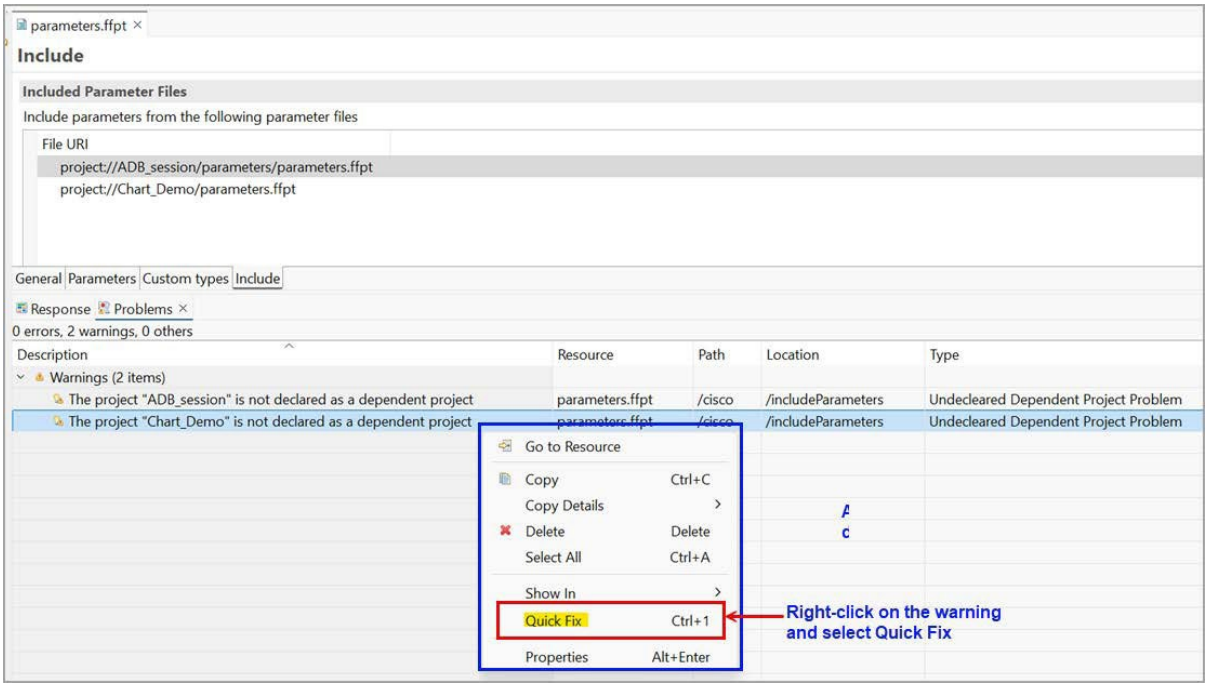
During the builder process, iTest goes through each specified project. If a file in a project refers to another project, then the other project is declared as a dependent project. This is important when you are creating itar files, as described in "Building projects" on page 947.

1. In the **Project** menu, select **Update Project Dependencies.**

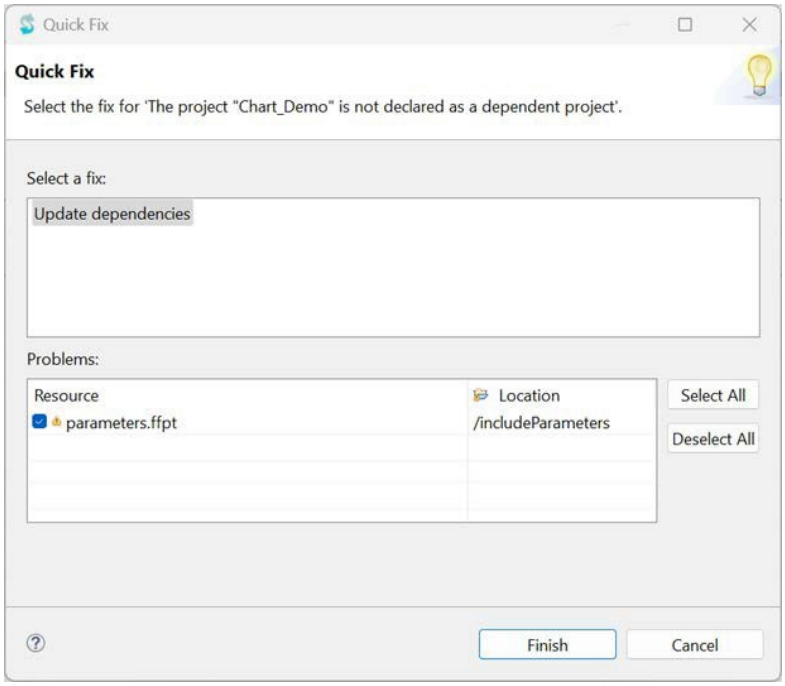


2. Select the appropriate option and then click **OK**.
   - **Rebuild all projects**
   - **Rebuild selected projects**: To speed the process, build only the selected projects.

     When the dependent project is not declared in iTest Project Dependencies, iTest displays warnings, in the **Problems View**. Right click on the warning and select the **Quick Fix** option.



The **Quick Fix wizard** displays with the appropriate fix. Click Finish and iTest automatically adds the missing Dependencies.



Label Snapshots in Selenium Session

Annotates the snapshots captured during the test to support the review process by providing context about what each snapshot represents.

- Annotate screenshots taken during Web App testing driven from Selenium
- Faster results analysis by showing context in the screenshots gathered in final test reports

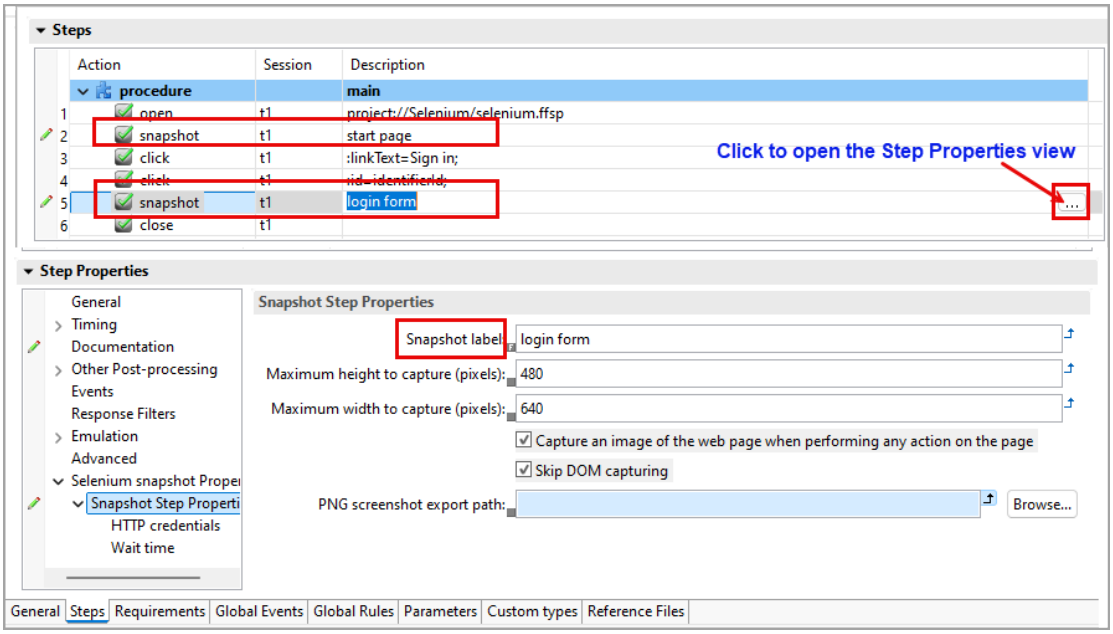
See the Velocity iTest 26.2 User Guide on CSC (Installation Instructions and Documentation) and or the embedded Online help.

Annotate Captured Snapshot

While validating captured web applications in the iTest Selenium Session, you can annotate/add a label to the snapshots taken during test execution to provide additional context when reviewing the report at a later time.

Note: This annotation/label is added only as part of the test case editing process after capture, not during an interactive step.

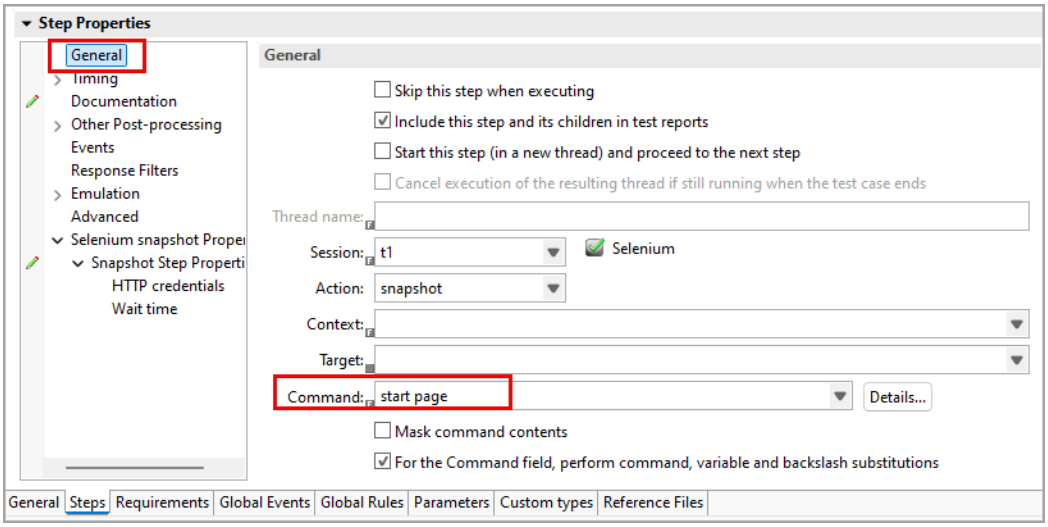
These annotations may consist of short, labels, for example, Bandwidth, Traffic, VLANs, etc., to clearly indicate what each snapshot represents.



Click the Snapshot in the captured steps in the test case and enter the required label either directly in the snapshot command description or in the **Step Properties > Selenium snapshot Step Properties > Snapshot label** as shown in the screenshot above.

Snapshot label: Enter a label for the snapshot captured during the test. The label supports only alphanumeric characters and has a maximum length of 100 characters.

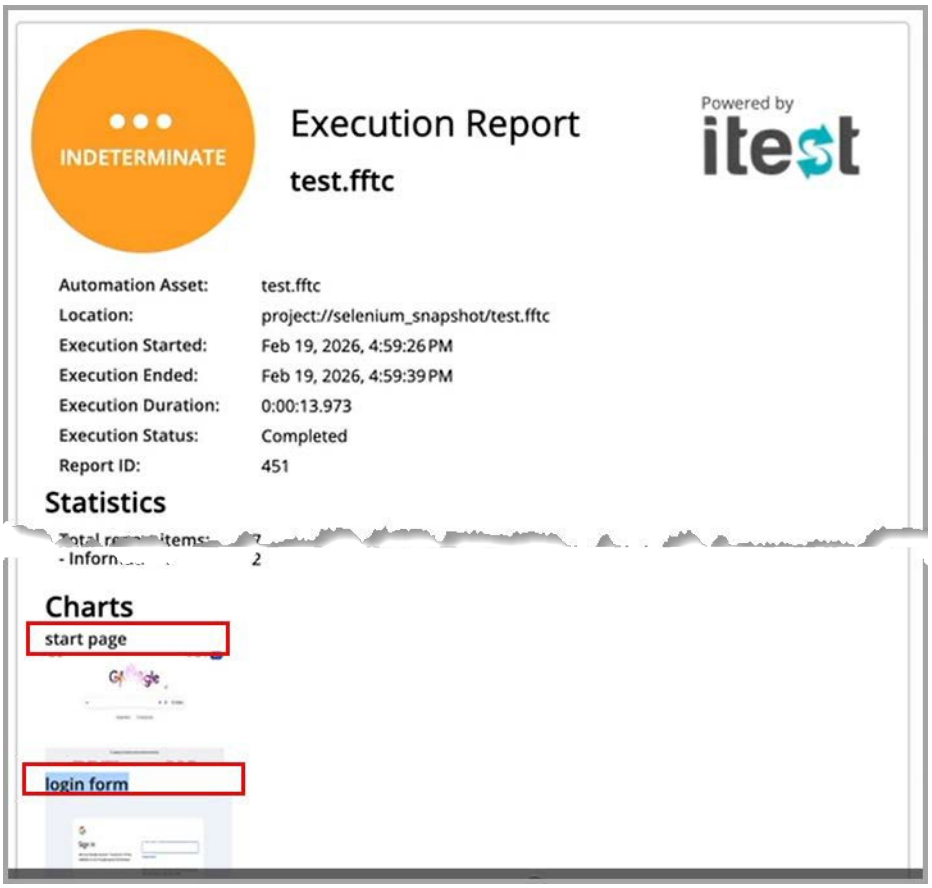
The label also appears on the **Step Properties > General > Command** section. See the screenshot below.



After test execution, the labels added above are displayed at the top of the corresponding snapshots to provide additional context when reviewing the report.

The examples below show a report containing a labeled snapshot, as well as a snapshot displayed in the context of the executed command.

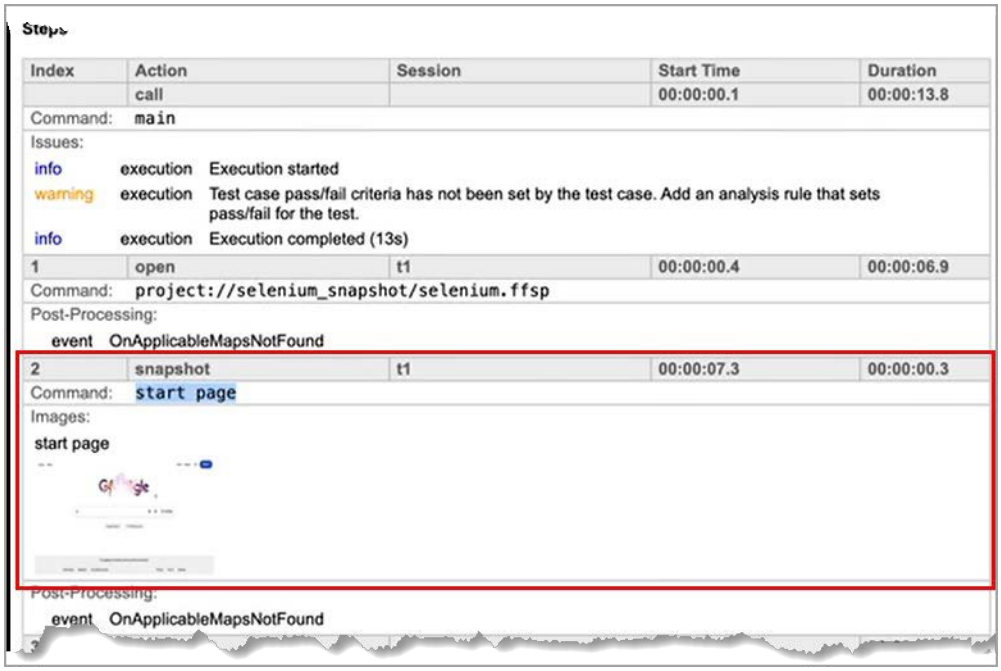
Example test report saved as Custom HTML



Snapshot labels are displayed within the step commands in reports saved as Custom HTML.



Example test report saved as HTML, with a Snapshot label and the snapshot displayed in-line, in context with the executed step command.



Steps

Index	Action	Session	Start Time	Duration
	call		00:00:00.1	00:00:13.8
Command:	main			
Issues:				
info	execution	Execution started		
warning	execution	Test case pass/fail criteria has not been set by the test case. Add an analysis rule that sets pass/fail for the test.		
info	execution	Execution completed (13s)		
1	open	t1	00:00:00.4	00:00:06.9
Command:	project://selenium_snapshot/selenium.ffsp			
Post-Processing:				
event	OnApplicableMapsNotFound			
2	snapshot	t1	00:00:07.3	00:00:00.3
Command:	start page			
Images:				
start page				
Post-Processing:				
event	OnApplicableMapsNotFound			

Agent Debugging Improvements

Provides an easier way to toggle running iTest as a Velocity Agent on or off when iTest is connected to Velocity.

- Additional log information in execution agents
- Faster root cause analysis and troubleshooting failures

See the Velocity iTest 26.2 User Guide on CSC (Installation Instructions and Documentation) and or the embedded Online help.

Velocity Agent/NDO Perspective

When iTest is running in an Agent mode (Velocity Agent or Network DevOps Agent mode), if iTest encounters a breakpoint in the first step, it switches to the **Velocity Agent/NDO** perspective to facilitate single-stepping and other debugging tasks.

During execution, the Agent perspective either opens automatically or not depending on the **Breakpoint at first step** setting.

- When **enabled**, execution automatically pauses at the first line of a test case and the Velocity Agent/NDO Perspective always open automatically.
- When disabled, execution does not pause, and the Velocity Agent/NDO Perspective does not open automatically or come to the foreground.

See “Configure Velocity Agent Mode” on page 2229 and “Configure NDO Agent Mode” on page 2246 for details.

Note: The iTest toolbar provides an easy way to toggle running iTest as either a Velocity Agent or an NDO Agent when iTest is connected to Velocity. See “Velocity Agent/NDO Execution Mode Toggle” on page 73.

The Agent perspective includes these views:

- The Test Report view:
  - The Test Report view is brought to the foreground (made active) after execution or debugging completes, enabling users to easily select and open a report if required.
  - When the Velocity Agent or NDO Agent execution completes:
    - The Test Report view is brought to the foreground. If it was closed, it is reopened.
    - The Execution Report is not opened.
    - All session windows opened during execution are closed.
- The Velocity Execution Explorer view located in the lower right-hand corner, shows the execution to indicate that iTest is running in Agent Mode.
- The Response view, located in the lower right-hand corner, displays the command and response for the currently selected captured item or test case step.
- The Threads view, located in the lower right-hand corner, enables you to monitor detailed execution progress.

UI Enhancements

The following lists some of the UI enhancements in Velocity iTest 26.2.

See the Velocity iTest 26.2 User Guide on CSC (Installation Instructions and Documentation) and or the embedded Online help.

About the iTest Window

How the iTest window is organized

As you can use iTest for a large variety of tasks, it provides a variety of built-in perspectives that organize the iTest window into practical arrangements of views and editors. For example, to make it easier to perform your most common tasks iTest user, iTest provides the **iTest Expert** perspective, iTest Development perspective, etc., for ease of performing your required tasks, which are described on subsequent pages.

This chapter describes all iTest built-in perspectives.

Important A perspective is just a particularly useful arrangement of the available views and editors — no data changes when you change perspectives, the only changes are which data you are looking at and the way that the data is displayed.

Perspectives

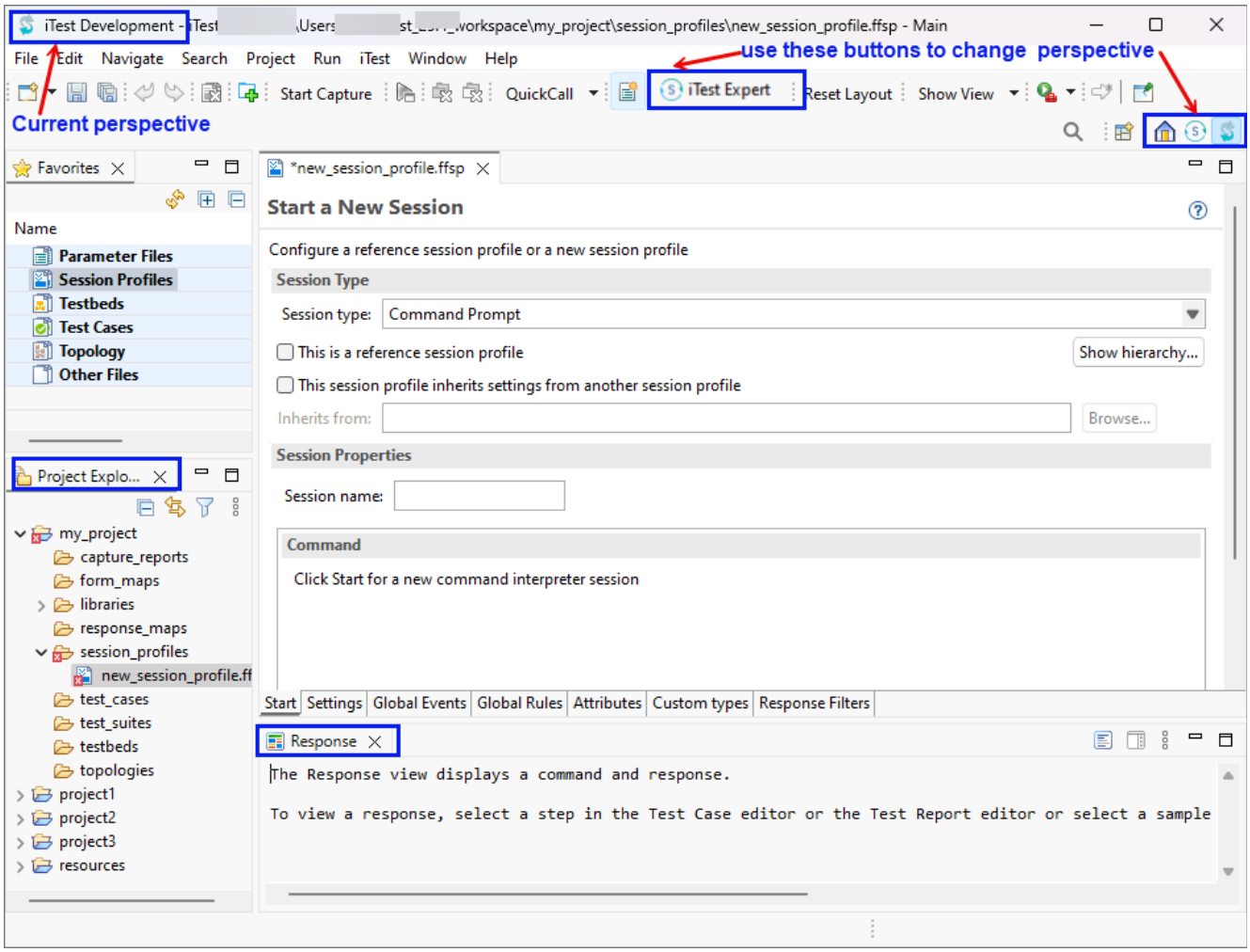
A *perspective* is the current layout of the iTest window—the arrangement of editors, views, menus, and tool bars that is optimized to help you get the current task done quickly and efficiently.

You'll switch between perspectives (that is, change the way iTest is laid out) depending on the task at hand. As you become a power user, you might even define custom perspectives to suit your needs. Switching between perspectives has no effect on iTest other than rearranging the windows and tool bars, so you are free to change perspectives any time you want.

Below is an example perspective (named **iTest Development**).

- You can see that the **iTest Expert** perspective is available at a button-click.
- The **Favorites** view, **Project Explorer** view, **Response** view, and the New Session editor appear in this perspective. The editor appeared when we double-clicked a iTest document in the Project Explorer.
- The views, editors, and tool bars that appear in a perspective are optimized to support the tasks that you perform. For example, the layout of the **iTest Response**.

Mapping perspective provides tools that speed up and support your work with response maps.



Views

Activity View

The Activities View makes it easier to perform your most common activities, the **iTest Activities** View.

See the Velocity iTest 26.2 User Guide on CSC (Installation Instructions and Documentation) and or the embedded Online help.

Installation Instructions and Documentation

To access the latest Velocity Portfolio documentation, follow these steps:

1. Log into the Spirent Customer Service Center website (*http://support.spirent.com*) using the email address and password assigned to you by Spirent.
2. Select your product from the **Product** drop-down menu. This displays the product page.
3. Click on the **Documentation** link in the Related Content section. This displays the documentation hub page for your selected product.
4. Click on the document links to access the desired PDFs.

Documentation

Click the link below to access the Velocity Documentation Hub page and scroll down to locate the desired document.

Velocity iTest User Guide	https://support.spirent.com/csc30/s/article/Velocity-Doc-Hub
Velocity iTest Installation Guide	
Velocity iTest System Release Summary	
Custom Sessions	
Velocity Portfolio Licenser Server Installation Guide	

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