

Integrate Silk Performer with LoadRunner Enterprise

Run Silk Performer scripts in LoadRunner Enterprise



Contents

Contents	2
Silk Integration overview.....	3
Supported versions	3
Licensing.....	3
Set up and run a Silk Performer test	4
Silk Performer measurement mappings	9
Notes and limitations	11

Silk Integration overview

This integration enables you to save and run Silk scripts in LoadRunner Enterprise tests, and view results in the LoadRunner Enterprise graphs. Silk Performer is a Micro Focus software performance testing tool across web, mobile and enterprise applications.

By including Silk Performer scripts in your LoadRunner Enterprise tests, you can run Silk Performer tests side-by-side with any other tests, giving you a single entry point for executing your performance tests.

Data is reported in real-time, and measurements can be viewed online and offline (via LoadRunner Enterprise and Analysis), using the data points from the Silk Performer tests.

Supported versions

- Silk Performer 21.0.8899 and later
- LoadRunner Enterprise 2021 and later

Licensing

Silk Performer interfaces have been mapped with LoadRunner Enterprise license bundles. For example, any Web Vuser license is applicable for a Silk Integration Web Vuser run, or a LoadRunner Web Vuser (they equate to each other).

For details on licensing in LoadRunner Enterprise, see [Manage licenses](#).

For details on licensing in Silk Performer, see [Licensing](#) in the [Silk Performer](#) documentation.

Note:

- Silk Performer is not included in the LoadRunner Enterprise Community license.
- Licensing works differently in LoadRunner Enterprise for multi-protocol scripts: a license is required for each protocol that is involved. For Silk scripts, it is sufficient to have one license, which covers the highest category protocol (there are three categories: Web, Standard and Premium).

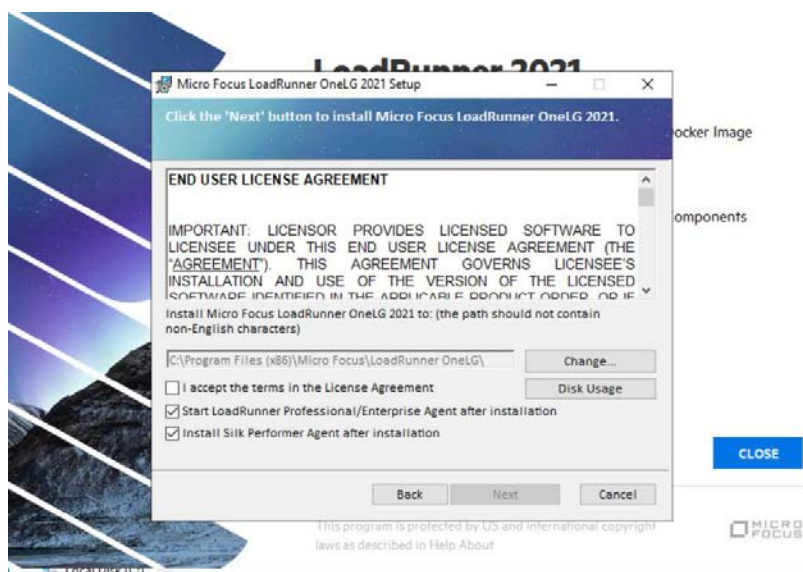
Set up and run a Silk Performer test

1. Prerequisites.

- Create and edit scripts in Silk Performer Workbench. For details, see the [Silk Performer](#) documentation.
- A Silk Performer Agent must be installed on all load generators used to run Silk Performer scripts.
- If you are using a LoadRunner Enterprise host, install the agent by selecting **Install Silk Performer Agent after installation** in the End User License Agreement page of the installation wizard. For details, see the [LoadRunner Enterprise Installation guide](#) (select the relevant version).



- If you are using OneLG (a standalone version of the load generator) install the agent by selecting **Install Silk Performer Agent after installation** in the End User License Agreement page of the installation wizard.

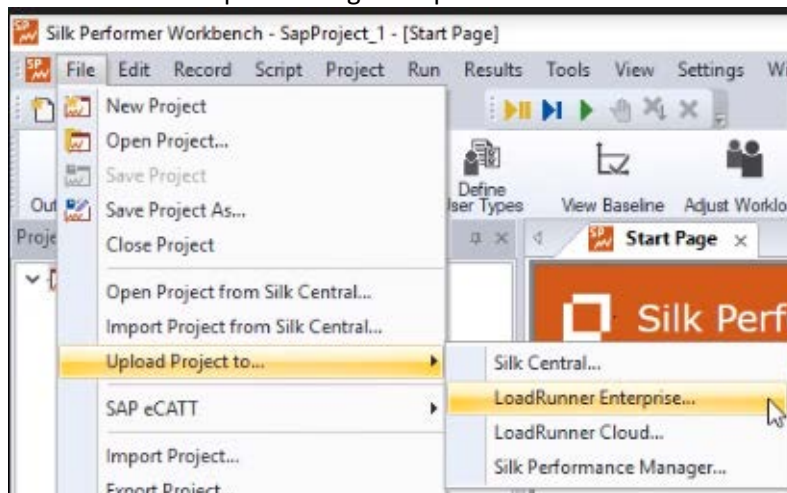


For silent installation, add the following parameter: **INSTALL_SILK_PERFORMER_AGENT=1**.

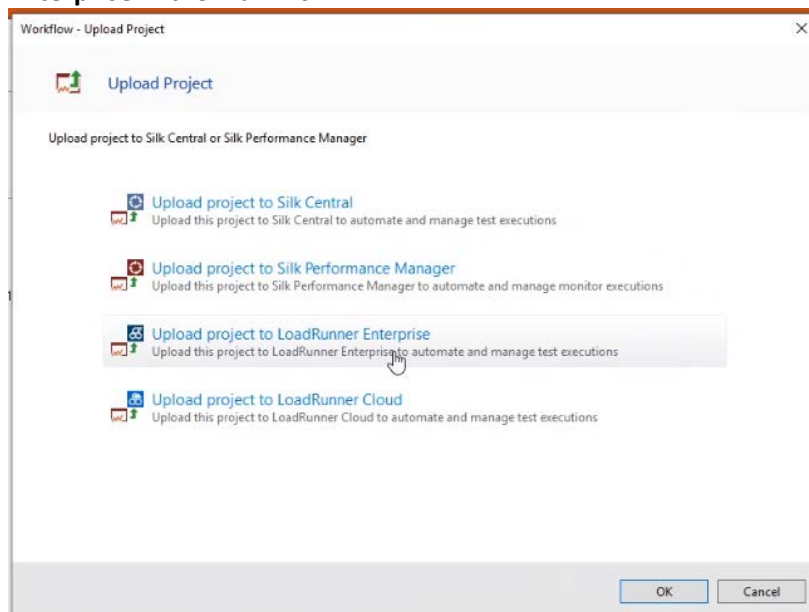
Example: SetupOneLG.exe -s -sp"/s INSTALLDIR=""C:\Program Files (x86)\Micro Focus\LoadRunner OneLG"" IS_RUNAS_SERVICE=1 START_LGA=1 NVINSTALL=N INSTALL_SILK_PERFORMER_AGENT=1"

For more details, see the [LoadRunner Professional Installation guide](#) (select the relevant version).

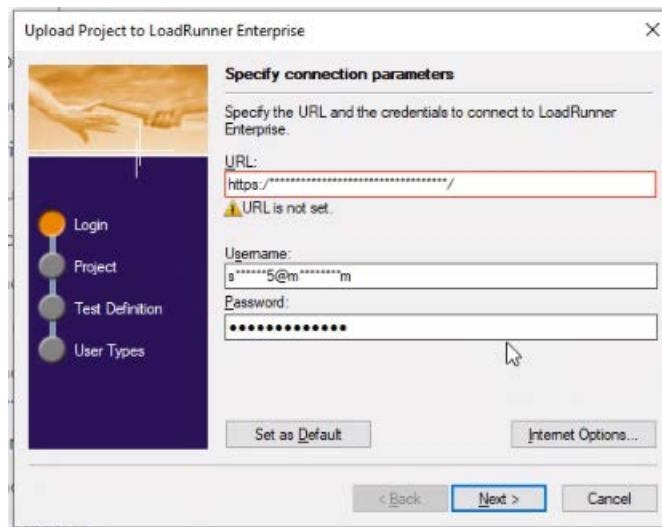
2. Upload Silk Performer scripts to LoadRunner Enterprise.
 - a. Open Silk Performer Workbench.
 - b. Edit the script according to how you want it to run, and save it.
Note: The Silk Performer “Agent” and “Workload” configurations in the project are not used in this integration; they are configured in LoadRunner Enterprise.
 - c. Select **File > Upload Project to > LoadRunner Enterprise**. The Upload Project to LoadRunner Enterprise dialog box opens.



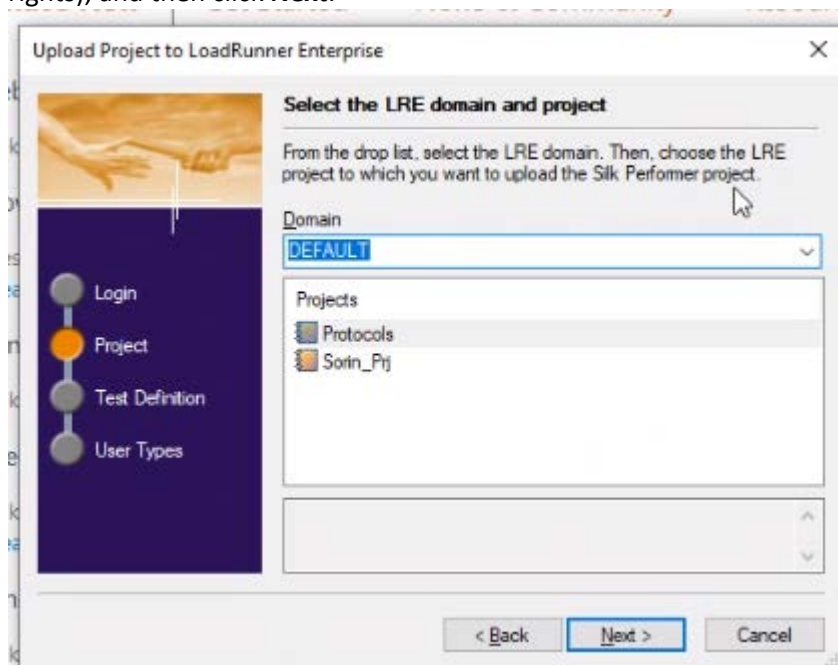
Alternatively, you can click **Upload Project** and select **Upload project to LoadRunner Enterprise** in the main flow:



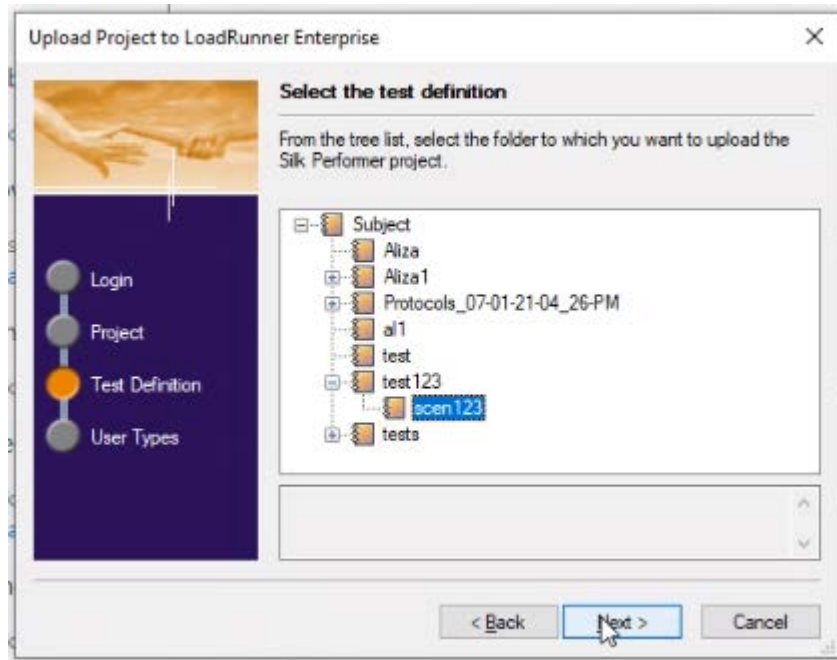
- d. Enter the following, and then click **Next**.
- **URL.** The LoadRunner Enterprise server URL. This should be in the format: *http://<LoadRunner Enterprise server name>/loadtest*
 - **Username.** Enter the user name assigned for the LoadRunner Enterprise server.
 - **Password.** Enter the password assigned for the LoadRunner Enterprise server.
 - **Internet Options.** Enables you to set internet connections as required.



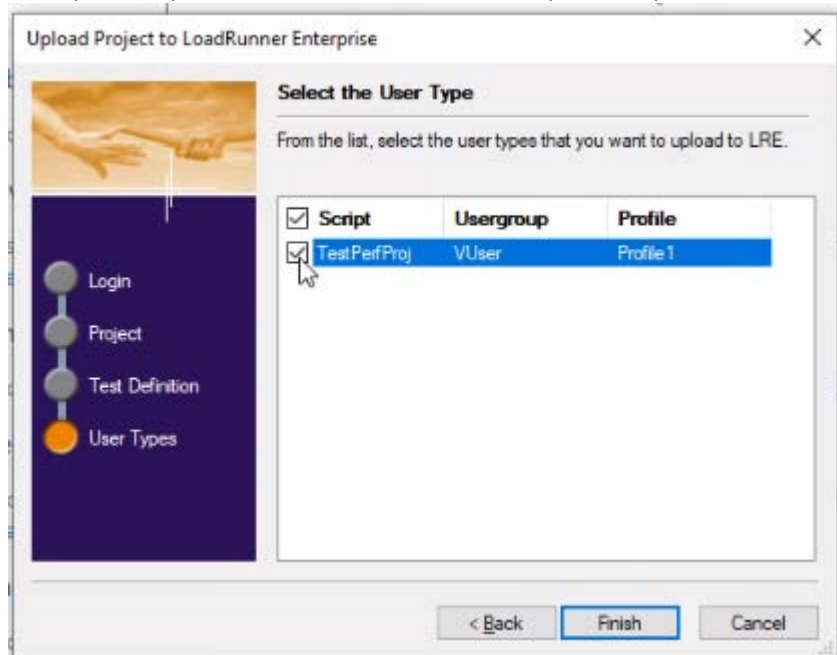
- e. Select a domain and project to which you want to upload the Silk Performer project (LoadRunner Enterprise lists the domains and projects depending on your access rights), and then click **Next**.



- f. Select the folder to which you want to upload the Silk Performer project, and then click **Next**.



- g. Select the user types from your Silk Project that you want to upload to LoadRunner Enterprise (equivalent to a LoadRunner Enterprise script).



Note: Running Silk Performer projects on LoadRunner Enterprise is performed by splitting the project into user types, each of which represents a script after it has been uploaded to LoadRunner Enterprise.

- h. Click **Finish**. Silk Performer scripts are uploaded to LoadRunner Enterprise and have a **.bdf** extension.

3. **Create** a LoadRunner Enterprise test and assign the Silk Performer script to it. In this step, you configure LoadRunner type “Workloads” (Scenarios) using LoadRunner type “Agents” (Load Generators).

For details, see [Design a test](#).

4. Configure runtime settings – optional (available in LoadRunner Enterprise 2021 R1 and later)

Before you run a performance test, you can view and configure the behavior of the Vuser script in the test using runtime settings.

For details, see [Configure runtime settings](#).

5. Run the test.

For details, see [Run performance tests](#).

Note: You can run up to 2500 Vusers on a load generator from LoadRunner Enterprise.

6. View Silk Performer test results.

You can view data points (measurements) from Silk Performer tests in LoadRunner Enterprise graphs. For details, see [Silk Performer measurement mappings](#).

Data is reported in real-time, and measurements can be viewed online and offline. For details, see [View and analyze test results](#).

You can also download the whole test results folder for a selected test run. For details, see [Download and upload result files](#).

Raw data reporting in Silk Performer can be enabled at the script level using the **MeasureSetOption** function. For details, see [MeasureSetOption Function](#) and [Measurement Functions](#) in the [Silk Performer](#) documentation.

For example:

```
MeasureSetOption("Search", MEASURE_ALL, MEASURE_OPT_REALTIME, true);  
Reports measures of all types with the name “Search”.
```

```
MeasureSetOption("Search", MEASURE_PAGE_ACTIONTIME, MEASURE_OPT_REALTIME,  
true);  
Reports Action Time measures named “Search”
```

By default, there are some standard measurements being reported as raw data even if no **MeasureSetOption** is setup. This can be modified by using the above function.

Silk Performer measurement mappings

Silk Performer scripts produce results that are displayed in the standard [Transaction](#) and [Web Resource](#) graphs in LoadRunner Enterprise. Only Web and BDLT protocols (Browser Driven Load Test) data graphs are available.

Below are measurement mappings between Silk Performer and LoadRunner Enterprise:

Protocol	Silk Performer Measurements	LoadRunner Enterprise Measurements	Details
Web – WebHTTP	Concurrent connections (successful)	Connection	N/A
	Concurrent connections	Connections per second	N/A
	HTTP 1xx/2xx/3xx/4xx/5xx responses	HTTP Responses per Second	N/A
	Throughput [kb] <ul style="list-style-type: none"> • Response data received [kB] • Response data sent [kB] 	Throughput (bytes)	N/A
	Hits	Hits per Second	This includes http codes, hits (passed), and hits (failed) "Total Hits" in LoadRunner Enterprise includes HTTP status return codes as well.

Silk Performer Integration

Below are BDLT (Browser Driven Load Test) data point mappings between Silk Performer and LoadRunner Enterprise:

Silk Performer Data Points	LoadRunner Enterprise Data Points
Browser Driven -> TruClient Action Time	Page Load Event duration
DOM Complete	Page DOMContentLoaded Event duration
DOM Interactive	DOM Interactive

Notes and limitations

The following limitations apply to the LoadRunner Enterprise-Silk Performer integration and to Silk Performer scripts:

Product	Note/Limitation
<p>LoadRunner Enterprise</p>	<ul style="list-style-type: none"> • Silk scripts can only be run on a load generator on a Windows operating system. • Runtime settings cannot be viewed or modified. The script must be uploaded again with the new profile settings modified in the Silk Performer Workbench. • NV (Network Virtualization) is not supported. • Goal oriented scenarios are not supported. • Think time is always reported in the transaction response time as 0.
<p>Silk Performer</p>	<ul style="list-style-type: none"> • Silk type Workloads are not configurable (LoadRunner Enterprise utilizes Silk Performer’s Dynamic workload model for this integration). • Silk type Agents are not used; only the LoadRunner Enterprise proprietary load generators are used. LoadRunner Enterprise load generators now come bundled with Silk Performer Agent in order to run Silk Performer scripts through the Silk Performer SDK. • Running BDLT tests as a service runs the browsers in a separate Windows session and they are not visible. To see the browsers, use an interactive RDP session for the LoadRunner Enterprise load generator. For details, see Run Vusers in an interactive RDP session. • Global* and Synchronization functions, such as rendezvous points or global variables, are not supported.