



What's new in HP LoadRunner software

Version 11.50

Innovating the interface with Virtual User Generator (VUGen)

HP LoadRunner 11.50 introduces an innovative VUGen (Virtual User Generator) interface with redesigned IDE and Design Studio. It is now easier than ever to record, replay and debug scripts using the new VUGen. The improvements include:

- **Usability**
 - Modern and intuitive look and feel, flexible panes and layouts.
 - The improved editor is now context-sensitive, supports code completion and provides enhanced coloring and formatting. It also supports editing features such as highlighting, intelli-type, watchlist, copy/paste, color coding, etc.
 - A true C language debugger has been added.
 - The Solution Explorer makes it easier to group multiple scripts, access script items and perform script related operations (e.g. comparison).
 - New capabilities to search and replace in log and snapshots.
 - Step Navigator replaces tree view for single view of the script with easy filtering and search.
 - A persistent frameworks helps maintain a custom look-and-feel for the script developer.
 - Context sensitive help provides needed assistance for the application element that is being used at the time, at the touch of a button (F1).
- **New correlation studio**

The new correlation studio hosts all correlation functionality in one place: record-based correlations, replay-based correlations, correlation rules and correlation from snapshot. Correlations can now be found based on server responses during recording, in many cases eliminating the need to replay iteratively to find dynamic values. It also includes new APIs for locating parameters based on XPath and Regular Expressions. The new Correlation Studio interface and new APIs makes scripting easier, faster and more intuitive.
- **Data format extension (DFE) for Google Web Toolkit (GWT)**

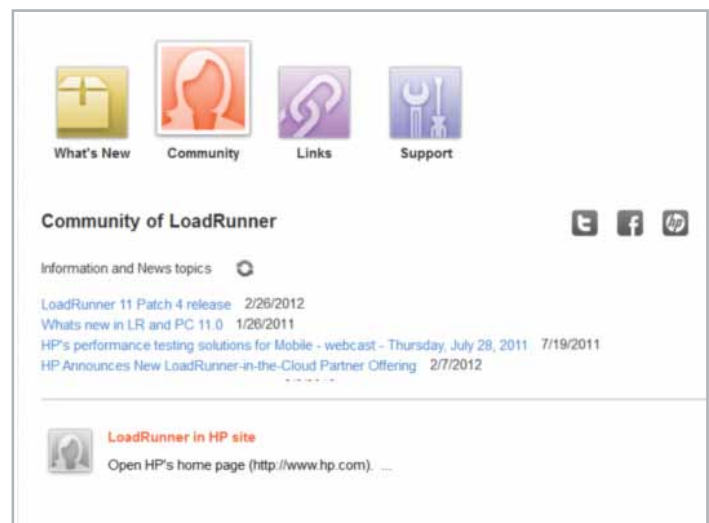
The DFE feature is designed to simplify scripting of applications that exchange formatted data. By turning the formatted data into a more readable format, the script can be easily correlated and parameterized. GWT DFE is the latest addition to the already supported formats of Base64, JSON, URL Encoding, XML, and Prefix-Postfix. GWT support includes:

 - Formatting the GWT RPC data into readable and correlate-able content
 - Add more data (i.e. object field names)
 - Enable simple parameterization
 - Solve specific correlations for GWT
- **Recording 64-bit applications**

Support for recording 64-bit applications has been added to the existing support for 64-bit operating systems. 64-bit applications can usually be recognized when the “*32” suffix is not displayed in the Windows Task Manager for their process. (replay is 32 bit based)
- **IPv6 support**

IPv6-based applications can be tested in addition to applications based on IPv4. Support includes IP Spoofing. Note internal PC/LR communication (e.g. Controller-Load Generator) is still IPv4-based.
- **Collaboration**

Community sharing allows integration into the HP online community and helps the script developer be more efficient and productive. Easily access forums, blogs and Twitter, or add your own search engine to enable access directly from within the development environment.



Increasing flexibility with new protocols

- **Mobile protocols**

New protocols have been added to enable developing scripts for mobile applications. The Web (HTTP/HTML) protocol is used for Native applications and HP Ajax TruClient is used for browser-based mobile applications.

- **HP Ajax TruClient for Internet Explorer (IE 9)**

This new addition to the Ajax TruClient family expands support to Internet Explorer (IE) based applications. Applications that work in IE standard mode can be quickly scripted utilizing the same TruClient technology that has revolutionized scripting for Firefox Web applications.

- **Enhancements on HP TruClient for Firefox**

The modern Ajax TruClient Firefox protocol was moved to Firefox 8 providing better performance. It now supports HTML5 and allows and allows for easy code reuse and sharing when creating functions. It has also added “Think Time” recording, global event handlers to support asynchronous behavior, API for URL filtering—black and white list, API for setting HTTP headers and allows for automatic transactions per step.

- **Web Protocol Asynchronous Support**

Support for asynchronous behavior has been added to Web (HTTP/HTML) VUser scripts, and Web-based functions inside Flex, Silverlight, and Web Services VUser scripts. This new capability enables recording of Poll, Long Poll and Push interactions required for advanced Web applications that contain various asynchronous communication designed to keep the information current and up to date. These unique communication patterns are recognized automatically and the recorded script is updated accordingly.

- **Web Services enhancements:**

The Web Services protocol includes new features for better security support, improved handling of WCF (Windows Communication Foundation). The Web Services protocol includes the following enhancements: Improved UI for security settings including addressing versions, easier certificate selection, flexible definition of signature and encryption algorithms, the option to exclude timestamps, and support of custom extensions to WCF (Windows Communication Foundation).



- **Flex enhancements**

New capabilities have been added to better support Flex environment. These new capabilities include:

- Web correlation mechanisms (rules, studio and response based correlation, Web correlation APIs),
- Web requests support
- Adobe® Flex platform jars bundled in the product so application jars are not needed for message serialization
- RTMP FMS streaming, RTMPT and RTMPS, and GraniteDS support.

- **.NET4 support**

With this release, NET4 support has been added to the existing support for .NET frameworks 2-3.5.



Enhanced analysis

A set of enhancements were added in the analysis, such as:

- New RTMP (Real Time Messaging Protocol) Flex Graphics
- TruClient Breakdown graphs
- Allow to apply granularity to many graphs
- Global option of Absolute/Relative time on graphs

Extensibility for greater functionality

HP LoadRunner provides best-of-breed extensibility by allowing engineers to include custom code in their scripts and increase their functionality, or use different languages such as JavaScript, Java and VBScript to write custom scripts. Customers can also leverage Microsoft® Visual Studio™ to edit their scripts and take advantage of its advanced IDE. HP LoadRunner also provides APIs for integrating load testing into your build management or other automated system. New in version 11.50, users can even extend on the functionality of the all-new HP VUGen IDE itself by developing add-ins that is integrated into the user interface.

Integration with HP Service Virtualization

Integrate with HP Service Virtualization, and use simulated services to facilitate load testing business processes that contain services that are not readily available or too costly.

HP VUGen for Business Process Monitoring

For customers that leverage scripts from VUGen to HP Business Service Management (BSM), it is required to record Business Process Monitoring (BPM) scripts using VUGen. The following enhancements were added on Business Process Monitoring:

- **Scripts parameterization**
Supports script parameterization from within BSM script repository to reduce script maintenance overhead.
- **Easy script upload**
Multiple scripts can now be uploaded into an existing folder in the Script Repository using drag-and-drop functionality.

A new set of supported environments

- Windows Server® 2008 R2 SP1
- Windows® 7 SP1 (32 and 64 bit)
- Internet Explorer® 9
- Languages supported:
English, Japanese, German, French, Spanish, Italian*, Russian*, Dutch, S-Chinese, Brazilian Portuguese*, Korean*

*new languages added on HP LoadRunner 11.50

For more information

Data sheets and white papers: hp.com/go/loadrunner

HP Community: hp.com/go/swcommunity

HP LoadRunner Blog: bitly.com/hplrblog

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