
Version 12.56 and 12.57

LoadRunner and Performance Center

System Requirements (Product Availability Matrix)



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This document (previously named Product Availability Matrix or PAM) provides up-to-date system requirements and supported environments for installing and running LoadRunner and Performance Center.

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LoadRunner and Performance Center Host System Requirements (Windows)

This section provides system requirement information for the following products:

- LoadRunner Full
- Performance Center Host
- VuGen Standalone
- Analysis Standalone
- Load Generator
- Monitor Over Firewall
- MI Listener
- TruClient Standalone

Hardware requirements

This table provides hardware requirements for the products listed above. Memory and CPU requirements vary per protocol and system under test.

Hardware component	Supported / Recommended
Processor	<ul style="list-style-type: none"> • 2 core CPU • 8 core CPU (Recommended)
Processor for UI level protocols*	<ul style="list-style-type: none"> • 8 core CPU • 16 core CPU (Recommended)
Memory (RAM)	<ul style="list-style-type: none"> • 8 GB • 16 GB (Recommended)
Memory (RAM) for UI level protocols*	<ul style="list-style-type: none"> • 16 GB • 32 GB (Recommended)
Available hard disk space	<ul style="list-style-type: none"> • 50 GB • 100 GB; SSD drive (Recommended)
Network card	1 GBit/s

* Such as TruClient, Citrix, SAPGUI, and so on.

Software requirements

This table provides software requirements for the products listed above.

Software component	Supported / Recommended
Operating system (See Windows Updates below)	<ul style="list-style-type: none"> • Microsoft Windows 7 SP1 64-bit (Recommended) • Microsoft Windows 8.1 64-bit* • Microsoft Windows 10 64-bit (Creators and Fall Creators Update) • Microsoft Windows Server 2008 R2 SP1 64-bit** • Microsoft Windows Server 2012 R2 64-bit* (Recommended) • Microsoft Windows Server 2016 64-bit
Browser	<ul style="list-style-type: none"> • Microsoft Internet Explorer 10 • Microsoft Internet Explorer 11 (Recommended) • Microsoft Edge (not supported for TruClient)
Screen resolution	<ul style="list-style-type: none"> • 1366x768 or higher • 1600x900 or higher (Recommended)

* Can be used only with IE 11.

** Recommended for TruClient Vusers.

Windows updates

Before you install any components on a Windows machine, make sure that the full set of Windows updates has been installed, or install the Windows updates listed in the table below.

Note: Before you install any of the Windows updates, disable UAC (User Account Control) and restart the computer. For details on how to disable UAC, refer to the [Microsoft Windows documentation](#).

Windows version	Required updates
<ul style="list-style-type: none"> • Windows 7 64-bit • Windows 2008 R2 64-bit 	<ul style="list-style-type: none"> • SP1 • Update for Universal C Runtime (UCRT) in Windows KB2999226 x64
<ul style="list-style-type: none"> • Windows 8.1 64-bit* • Windows 2012 R2 64-bit* 	Install the following pack of updates: <ol style="list-style-type: none"> 1. KB2919442 x64 or KB2970551 x64 (one of these two updates) 2. KB2919355 x64 3. KB2932046 x64 4. KB2959977 x64 (if applicable) 5. KB2937592 x64 6. KB2938439 x64 7. KB2934018 x64 8. KB2999226 x64
<ul style="list-style-type: none"> • Windows 10 64-bit* 	KB4022725

* The list of required updates might change due to Microsoft's update delivery policy or new Windows update releases. If you experience any issues, please contact [Micro Focus Software Support](#).

Component coexistence

The LoadRunner Full installation is installed on a single machine.

Every other LoadRunner component must be installed on a separate machine, except for Analysis Standalone which can coexist on the same machine with VuGen Standalone or TruClient Standalone.

Supported coexistence

✓	Analysis Standalone installed with VuGen Standalone
✓	Analysis Standalone installed with TruClient Standalone

Analysis database types

The following table lists the database types and versions that are supported by LoadRunner Analysis.

Supported database type	Versions
MS Access	2010, 2013
MS SQL	2008 R2, 2012
SQLite	v3

LoadRunner System Requirements (Linux)

Linux installation

The following table lists the system requirements and distributions for installing the Load Generator component on a Linux machine (only the Load Generator component is supported for installation on Linux).

Note: Load Generators support all X Servers.

Component	Supported / Recommended
Processor	2 core CPU 8 core CPU (Recommended)
Distribution	<ul style="list-style-type: none"> • Oracle Enterprise Linux 7.1 UEK, 7.3 64-bit • Red Hat Enterprise Linux 6.4 64-bit • Red Hat Enterprise Linux 7.3 64-bit* (Recommended) • SUSE Linux Server Enterprise (SLES) version 12.1 64-bit • Ubuntu Server Linux 14.04 LTS 64-bit • Ubuntu Server Linux 16.04 LTS 64-bit* (Recommended)
Memory (RAM)	8 GB 16 GB (Recommended)
Available hard disk space	10 GB 20 GB (Recommended)

* Supports dockerized load generators.

Prerequisite packages for 64-bit installations

The following table lists the packages that must be installed on Linux machines before installing the 64-bit version of a load generator.

Distribution	Prerequisites	How to check if it is installed	How to install
Red Hat family including Oracle Linux	<ul style="list-style-type: none"> • glibc.i686 • glib2.i686 • keyutils-libs.i686 	<ul style="list-style-type: none"> • rpm -qa --qf '%{NAME}.%{ARCH}\n' grep -E 'glibc\.(i686 i386)' • rpm -qa --qf '%{NAME}.%{ARCH}\n' grep -E 'glib2\.(i686 i386)' • rpm -qa --qf '%{NAME}.%{ARCH}\n' grep -E 'keyutils-libs\.(i686 i386)' 	<ul style="list-style-type: none"> • yum install <package_name> • yum install keyutils-libs.i686 • yum install libidn.i686 <p>Note: If your machine already has glib 64-bit (such as OEL7), make sure to update it to the latest version to avoid conflicts before installing glib2 32-bit.</p>
	<ul style="list-style-type: none"> • libstdc++.i686 • libstdc++47.i686 (Amazon Linux) 	<ul style="list-style-type: none"> • rpm -qa --qf '%{NAME}.%{ARCH}\n' grep -E 'libstdc\+[0-9]*\.(i686 i386)' 	
	<ul style="list-style-type: none"> • libidn.i686 	<ul style="list-style-type: none"> • rpm -qa --qf '%{NAME}.%{ARCH}\n' grep -E 'libidn\.(i686 i386)' 	
	<ul style="list-style-type: none"> • ncurses-libs.i686 (required by Security Console) 	<ul style="list-style-type: none"> • rpm -qa --qf '%{NAME}.%{ARCH}\n' grep -E 'ncurses(-libs)?\.(i686 i386)' 	
Ubuntu Server	<ul style="list-style-type: none"> • libc6-i386 • libglib2.0-0:i386 • lib32stdc++6 • libkeyutils1:i386 • lib32ncurses5 (required by Security Console) • libidn11:i386 	<ul style="list-style-type: none"> • dpkg -l libc6-i386 grep 'ii' • dpkg -l libglib2.0-0:i386 grep 'ii' • dpkg -l lib32stdc++6 grep 'ii' • dpkg -l libkeyutils1:i386 grep 'ii' • dpkg -l lib32ncurses5 grep 'ii' • dpkg -l libidn11:i386 grep 'ii' 	<ul style="list-style-type: none"> • apt-get install <package_name> • apt-get install libkeyutils1:i386 • apt-get install libidn11:i386

Distribution	Prerequisites	How to check if it is installed	How to install
SUSE Linux Enterprise Server (SLES) 64-bit	<ul style="list-style-type: none"> • libncurses5 32-bit • glibc 32-bit • libglib-2_0-0-32bit • libstdc++6 32-bit • keyutils-libs-32bit • libidn11-32bit 	<ul style="list-style-type: none"> • rpm -qa --qf '%{NAME}.*{ARCH}\n' grep -E 'ncurses[0-9]*-32bit' • rpm -qa --qf '%{NAME}.*{ARCH}\n' grep -E 'glibc-32bit' • rpm -qa --qf '%{NAME}.*{ARCH}\n' grep -E 'libglib-2_0-0-32bit' • rpm -qa --qf '%{NAME}.*{ARCH}\n' grep -E 'libstdc\+\+6-32bit' • rpm -qa --qf '%{NAME}.*{ARCH}\n' grep -E 'keyutils-libs-32bit' • rpm -qa --qf '%{NAME}.*{ARCH}\n' grep -E 'libidn11-32bit' 	<ul style="list-style-type: none"> • zypper install libncurses5-32-bit • zypper install glibc-32-bit • zypper install libglib-2_0-0-32bit • zypper install libstdc++6-32-bit • zypper install libkeyutils1-32bit • zypper install libidn11-32bit

Performance Center Server System Requirements

The following table displays the system requirements for installing a Performance Center server.

Component	Supported / Recommended
Processor	<ul style="list-style-type: none">• 4 core CPU• 8 core CPU (Recommended)
Memory (RAM)	<ul style="list-style-type: none">• 8 GB• 16 GB or higher (Recommended)
Available hard disk space	<ul style="list-style-type: none">• 80 GB• 100 GB; SSD drive (Recommended)
Operating system	<ul style="list-style-type: none">• Microsoft Windows Server 2008 R2 SP1 64-bit• Microsoft Windows Server 2012 64-bit• Microsoft Windows Server 2012 R2 64-bit (Recommended)• Microsoft Windows Server 2016 64-bit
Web server	IIS 7.5, 8.0, 8.5, 10.0

Performance Center Web Client System Requirements

The following table displays the system requirements for Performance Center Web client.

Component	Supported / Recommended
Screen resolution	<ul style="list-style-type: none">• Microsoft Windows: 1366x768 or higher• Microsoft Windows: 1600x900 or higher (Recommended)• Mac OS: 1280x800 or higher
Browser	<ul style="list-style-type: none">• Microsoft Internet Explorer 10 on Windows• Microsoft Internet Explorer 11 on Windows (Recommended)• Mozilla Firefox 45.x on Windows• Google Chrome 49.x on Windows (Recommended)• Mac OS: Apple Safari 9.x

ALM System Requirements

As a prerequisite to installing Performance Center components, you must install Micro Focus Application Lifecycle Management (ALM).

For ALM system requirements, see the System Requirements guide available from the [ALM Help Center](#).

Cloud Computing - Amazon AWS

LoadRunner and Performance Center are certified to be installed and run under Amazon Web Services (AWS), using a BYOL (Bring Your Own License) model.

Requirements for deploying LoadRunner or Performance Center on AWS:

- All components of the cloud computing environment follow the system requirements specified in this document. For the AWS requirements for ALM (Performance Center only), see the ALM System Requirements guide available from the [ALM Help Center](#).
- The required ports are open for communication. For the required ports, see [Load Generators on the Cloud](#) in the LoadRunner help, and Communications Paths in the [Performance Center Installation Guide](#).

Note:

- Cloud load generators can be provisioned using the built-in functionality of LoadRunner or Performance Center. For details, see [Manage Load Generators on the Cloud](#) in the LoadRunner help and [Provision Cloud load generators](#) in the Performance Center help. All other components must be manually installed and configured by the user
- To improve performance, it is preferable to deploy the ALM server, Performance Center server and hosts, and the database in the same region. Consult AWS for best practices about network performance.
- Cloud load generator ports are configurable. When all the components are in the cloud, the ports to use are defined by the cloud provider (they are not based on internal IT policies).

Integrations

The following integrations are supported with this version of LoadRunner and Performance Center.

Integrations with other Micro Focus products

To view supported product version information online, see the [Micro Focus Integration Catalog](#).

Note: IPv6 support is provided for Application Lifecycle Management and SiteScope.

Product	LoadRunner	Performance Center
Application Lifecycle Management (ALM) 12.55, ALM 12.55 Patch 1, ALM 12.55 Patch 2*	✓	✓
Application Lifecycle Management (ALM) 12.53 Patch 2	✓	x
ALM Octane 12.55.4 or later (using Jenkins plugin 5.4)	x	✓
Diagnostics 9.40	✓	✓
Mobile Center 2.6, 2.7* (supported in TruClient – Native Mobile protocol only)	✓	✓
Network Virtualization 9.13	✓	✓
Real User Monitor (RUM) 9.40	x	✓
Service Virtualization 4.00	✓	✓
SiteScope 11.40, 11.41*	✓	✓
Unified Functional Testing (UFT) 14.01, 14.02, 14.03	✓	✓

* Supported in LoadRunner and Performance Center 12.57 only.

Integration with non- Micro Focus products

The following integrations with non-Micro Focus products are compatible with this version of LoadRunner and Performance Center.

Supported products	Supported versions	Comments
Visual Studio IDE plugin	2013, 2015	JUnit 2.6.2 - 3.4
Eclipse IDE plugin	Neon/Mars/Luna/Oxygen	Required: Java 1.7x, 1.8x 32/64-bit supported Recommended: <ul style="list-style-type: none"> JUnit 4.9.0 or later Selenium 2.24.1 - 2.48.0 or later
Jenkins	Jenkins server 1.0, 2.0	Uses Micro Focus Jenkins plugin 5.3, 5.4* See the Jenkins documentation in the LoadRunner or Performance Center help.
Bamboo	Tested with Bamboo 6.1.1	Uses Micro Focus Bamboo plugin 1.0.1, available from Atlassian Marketplace . See the Performance Center and Bamboo documentation in the Performance Center help.
TeamCity**	TeamCity 10.0.5	Uses Micro Focus TeamCity plugin 1.0.0, available from JetBrains . See the Performance Center and TeamCity documentation in the Performance Center help.
TFS**	TFS Server 2018	Uses Micro Focus TFS plugin 1.0.0, available from Visual Studio Marketplace . See the Performance Center and TFS documentation in the Performance Center help.
New Relic	Tested with New Relic REST API (v2)	See the New Relic Monitor documentation in the Performance Center help (supported in Performance Center only).
Dynatrace	Tested with Dynatrace 7.0	See the Dynatrace Monitor documentation in the LoadRunner or Performance Center help.
AppDynamics	Tested with AppDynamics 4.4	See the AppDynamics Monitor documentation in the Performance Center help (supported in Performance Center only).

* Supported in LoadRunner and Performance Center 12.57 only.

** Supported in Performance Center 12.57 only.

Supported GUI Languages

Language Packs enable you to view the LoadRunner and Performance Center user interfaces in your local language. The following languages are supported:

Language	LoadRunner	Performance Center
Chinese – Simplified	✓	✓
French	✓	✓
German	✓	✓
Italian	✓	x
Japanese	✓	✓
Korean	✓	✓
Russian	✓	✓
Spanish	✓	x

Protocols

The following table lists the supported Vuser protocols in LoadRunner.

Protocol	Program	Supported versions	Supported servers	Native 64-bit client recording	IPv6 support	NV 9.13 support	IP spoofing support	Speed emulation support	Load Generator OS	Multi-protocol	Comments
Remote protocols											
Citrix ICA	Citrix Receiver for Windows	4.x or later. Check the Citrix Product Matrix for Receiver and Server compatibility.	Citrix XenApp and XenDesktop 5.x or later StoreFront/Web Interface 2.x or later	N	Y	Y	N	N	Any supported Windows OS	Y	Citrix Agent supports XenApp and XenDesktop servers. Network Virtualization supports Load Generator mode only. Recommended version of Citrix Receiver is 4.7. CitrixAgent does not support text-trapping functions (ctrx_sync_on_text_ex and ctrx_get_text) on Windows 10, Windows Server 2016, or later versions of Windows.
RDP (Remote Desktop Protocol)	RDP	7 7.1 8.1 10 10.2 10.4	Windows 2008 Standard/R2 Windows 7 32/64-bit Windows 8/8.1 Windows 2012 Standard/R2 Windows 10 Windows 2016	Y	Y	Y	Y	N	Any supported Windows OS	Y	Requires workaround connection to Windows 10 or Windows Server 2016.
Teradici PCoIP	Teradici PCoIP Client and compatible implementations	Teradici VMware Horizon	Teradici PCoIP Agent 2.7-2.10 Teradici PCoIP Connection Manager 1.5-1.7 Teradici PCoIP Security Gateway 1.11-1.13 VMware Horizon 6.2.1	N	N	Y	N	N	Any supported Windows OS	N	Network Virtualization supports Load Generator mode only.
RTE (Remote Terminal Emulator)	PowerTerm (built-in version with LoadRunner). Supported modes: 3270, 5250, VTxxx	9.1 9.2 10.2 *12.0	N/A	N	Y	Y	N	N	Any supported Windows OS (except Windows 10 or Windows Server 2016) *Any supported Windows OS	N	*Supported in LoadRunner/Performance Center 12.57 only.
GUI protocols											
Ajax - Click and Script	Internet Explorer	IE 10/11	N/A	N	Y	Y	Y	Y	Windows 7 64-bit Windows Server 2008 R2 64-bit Windows Server 2012 R2 64-bit	Y	Recommended: Record Ajax Click & Script scripts on Windows 7 or Windows 8.1. Windows 10 and Windows Server 2016 are not supported.
SAP GUI	SAPGUI	7.40 patch 13	SAP R/3 4.60c ECC 5.0 (ERP 2004) SAP HANA Edition 6.0 (ERP 2005)	N	Y	Y	N	N	Windows 7 64-bit Windows Server 2008 R2 64-bit Windows Server 2012 R2 64-bit	Y	Recommended: Use the most recent SAPGUI patch. SAP GUI is not supported on Windows 10 and Windows Server 2016.
TruClient - Web	Mozilla Firefox	Built-in 40.0.3	N/A	N/A	Y	Y	Y	Y	Any supported Windows OS	N	TruClient Browser is based on Mozilla Firefox technology and supported in Tech Preview mode only *Supported in LoadRunner/Performance Center 12.57 only.
	MS Internet Explorer	IE 10,11									
	Chromium	Built-in 55.0.2883.87 (64-bit) *Built-in 63.0.3239.132 (64-bit)									
	TruClient Browser	Built-in 55.0.3 (64-bit)									

Protocol	Program	Supported versions	Supported servers	Native 64-bit client recording	IPv6 support	NV 9.13 support	IP spoofing support	Speed emulation support	Load Generator OS	Multi-protocol	Comments
TruClient - Mobile Web	Firefox	Built-in 40.0.3	N/A	N/A	Y	Y	Y	Y	Any supported Windows OS	N	
TruClient - Native Mobile	Refer to the Mobile Center documentation for details		Mobile Center 2.6 *Mobile Center 2.7	N/A	N/A	Y (supported through Mobile Center server)	N/A	N/A	Any supported Windows OS	N	Mobile Center is required for this protocol. Physical devices are necessary to record and replay scripts. *Supported in LoadRunner/Performance Center 12.57 only.
Add-in protocols											
C++.NET Template (Visual Studio Add-in)	MS Visual Studio	2013 2015	N/A	N/A	N/A	Y	Y	Y	Any supported Windows OS	N	
C#.NET Template (Visual Studio Add-in)	MS Visual Studio	2013 2015	N/A	N/A	N/A	Y	Y	Y	Any supported Windows OS	N	
VB.NET Template (Visual Studio Add-in)	MS Visual Studio	2013 2015	N/A	N/A	N/A	Y	Y	Y	Any supported Windows OS	N	
Java Vuser for Continuous Delivery (Eclipse Add-in for Developers)	Eclipse IDE	Neon, Mars, Luna, Oxygen	N/A	N/A	N/A	Y	N/A	N/A	Any supported Windows OS	N	
Unit Test based on .NET (Visual Studio Add-in for Developers)	MS Visual Studio Unit 3.2 Unit 3.4	2013 2015	N/A	N/A	N/A	Y	N/A	N/A	Any supported Windows OS	N	
Custom Protocols developed with Protocol SDK	Vendor dependent	Visual Studio 2015	Vendor dependent	Vendor dependent	Vendor dependent	Y	Vendor dependent	N	Vendor dependent	N	
Web protocols											
Flex	Same Internet Explorer support as in Web HTTP/HTML	Flex SDK 4.6 AMFO AMF3 RTMPT RTMP, RTMPS	LCDS 3.1/4.7 BlazeDS 4 FMS3 FMS4 GranitedS 2.2	Y	Y	Y	Y	Y	Any supported Windows OS	Y	
Oracle NCA	Oracle Applications	JInitiator 1.3.1.18 JInitiator 1.1.8.16	Forms 4.5.10.8 Forms 6i+ Oracle E-Business Suite 12.2.x	Y	Y	Y	Y	Y	Any supported OS	Y	To work with Oracle client, install one of the following JVMs: JRE 7/8 or JDK 7/8.

Protocol	Program	Supported versions	Supported servers	Native 64-bit client recording	IPv6 support	NV 9.13 support	IP spoofing support	Speed emulation support	Load Generator OS	Multi-protocol	Comments
Oracle - Web	MS Internet Explorer	Same as Web - HTTP/HTML protocol	N/A	Y	Y	Y	Y	Y	Any supported OS	Y	To work with Oracle client, install one of the following JVMs: JRE 7/8 or JDK 7/8.
	Oracle Applications	JInitiator 1.3.1.18 JInitiator 1.1.8.16	Forms 4.5.10.8 Forms 6i+ Oracle E-Business Suite 12.2.x								
SAP - Web		Same as Web - HTTP/HTML protocol	N/A	Y	Y	Y	Y	Y	Any supported OS	Y	
Siebel - Web	Oracle (Siebel) CRM	N/A	7.5.2 7.5.3 7.7 7.8 8 8.1 8.2.2 (OpenUD)	Y	Y	Y	Y	Y	Any supported OS	Y	
Web - HTTP/HTML	MS Internet Explorer	IE 10, 11, Edge	N/A	Y	Y	Y	Y	Y	Any supported OS	Y	GWT: GWT Request Factory requires GWT 2.7.0 and Java 1.8. JavaScript language is not supported in Linux RHEL 6.x (use other Linux distributions). DFE is not supported in Linux OSs.
	Google Chrome	latest		Y							
	Firefox	latest		N							
	PCAP	libpcap tcpdump		N/A							
	Network Sniffer	WinPcap 4.1.3 Wireshark 2.2.0-2.2.7 Fiddler 4.5.x HAR file 1.2									
Web Services	MS Internet Explorer Google Chrome Firefox	MS Internet Explorer Google Chrome Firefox	WSDL 1.0/1.1 SOAP 1.1/1.2 WCF UDDI 2/3 WS-Security 1.0/1.1 Attachments: Dime/Mime/MTOM/ Base64Binary JMS	Y	Y	Y	Y	Y	Any supported Windows OS	Y	Supported SOAP features: WS HTTP-binding, Net TCP Binding, Named Piped, Basic HTTP Binding and various custom binding, Federation scenarios, WS-SecureConversation, WS-ReliableMessaging, WS-Addressing, Username Token, X509 Certificate Token, Kerberos Token, Message signature, Message encryption.
IoT protocols											
MQTT	N/A	3.1, 3.1.1	RabbitMQ 3.6.6 Mosquitto 1.4.11	N/A	N	Y	Y	N	Any supported OS	Y	

Protocol	Program	Supported versions	Supported servers	Native 64-bit client recording	IPv6 support	NV 9.13 support	IP spoofing support	Speed emulation support	Load Generator OS	Multi-protocol	Comments
.NET/Java protocols											
.NET	.NET Framework	2 3.0 3.5* 3.5 SP1* 4* 4.5*	N/A	Y**	N/A	Y	N	Y	Any supported Windows OS	N	* Supported on backward compatibility level. ** AUTs compiled in "AnyCPU" mode only.
Java Record Replay	Oracle JDK (32/64-bit)	1.6.x 1.7.x 1.8.x	WebLogic 11.x Generic	Y	N/A	Y	N	N	Any supported Windows OS	N	Oracle 64-bit JRE is supported for recording only. Network Virtualization supports Load Generator mode only.
Java over HTTP	Oracle JDK (32/64-bit)	1.6.x 1.7.x 1.8.x	Browsers support: IE and Firefox same as in Web HTTP/HTML	Y	Y	Y	Y	Y	Any supported Windows OS	N	Recording using Oracle 64-bit JRE is not supported on Windows 10. Remote Proxy recording is not supported for Firefox 38 or later.
Java Vuser	Oracle JDK (32/64-bit)	1.6.x 1.7.x 1.8.x	N/A	N/A	N/A	Y	N	N	Any supported Windows OS	N	Network Virtualization supports only Load Generator mode.
Mail protocols											
IMAP (Internet Messaging)	N/A	N/A	N/A	N	Y	Y	Y	Y	Any supported OS	Y	
MAPI (Microsoft Exchange)	Outlook	2007 2010	N/A	N/A	N/A	Y	N	N	Any supported Windows OS	N	Network Virtualization supports only Load Generator mode.
POP3 (Post Office Protocol)	N/A	N/A	N/A	N	Y	Y	Y	Y	Any supported OS	Y	POP3S: SSL support.
SMTP (Simple Mail Protocol)	N/A	4.x	N/A	N	Y	Y	Y	Y	Any supported OS	Y	SMTPS: SSL support.
Database protocols											
ODBC	ODBC	ODBC Driver Mgr 6.1 -10.0	N/A	Y	N	Y	N	Y	Any supported OS	Y	
Oracle - 2 Tier	Oracle	9.2	9.2	Y	N	Y	N	Y	Any supported OS	Y	
		10G	10G								
		11G	11G								
		11G R2\12c	11G R2 \12c								

Protocol	Program	Supported versions	Supported servers	Native 64-bit client recording	IPv6 support	NV 9.13 support	IP spoofing support	Speed emulation support	Load Generator OS	Multi-protocol	Comments
Non-Web protocols											
COM/DCOM	N/A	N/A	N/A	N	N	N	N	N	Any supported Windows OS	Y	
C Vuser	N/A	N/A	N/A	N/A	N/A	Y	Y	N	Any supported OS	N	Replay only.
DNS (Domain Name Resolution)	N/A	N/A	N/A	N	Y	Y	Y	N	Any supported OS	N	Replay only.
FTP (File Transfer Protocol)		N/A	N/A	Y	Y	Y	Y	Y	Any supported OS	Y	FTPS is supported in passive mode only.
LDAP (Listing Directory Service)	Based on Microsoft API	Based on Mozilla API	(Oracle) Sun ONE 5.2 Oracle DS 11	Y	N	Y	N	Y	Any supported OS	Y	
Windows Sockets	Winsock	2.x	N/A	Y	Y	Y	Y	Y	Any supported OS	Y	
Third-party protocols											
SMP (SAP Mobile Platform)		2.3		N/A	N/A	Y	Y	N	Any supported Windows OS	N	Same as .NET protocol support.
MQTester (Client and Server)	WebSphere MQ	To get updated info about the supported versions, contact OpenText support.		N	N	N	N	N	Any supported Windows OS	N	Third-party solution by OpenText. See MQTester documentation for more details and for contact information.
CoAP	Refer to AppDelivery Marketplace for details: https://marketplace.microfocus.com/appdelivery/content/coap-protocol			N/A	N	Y	N	N	Any supported Windows OS	Y	Third-party solution by Endpoint IOT.
Open source protocols											
JMeter	Apache JMeter	Apache JMeter 2.13 Apache JMeter 3.1 Apache JMeter 3.2 Apache JMeter 3.3 *Apache JMeter 4.0 Java 1.7 Java 1.8 *Java 1.9	N/A	N/A	N/A	N	N	N	Any supported OS	N	*Supported in LoadRunner/Performance Center 12.57 only.

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