

Application Performance Management

Software Version: 9.50

Recording Mobile Apps for BPM - Best Practices

Document Release Date: May 2018 Software Release Date: May 2018

Legal notices

Warranty

The only warranties for products and services of Micro Focus and its affiliates and licensors ("Micro Focus") are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Micro Focus shall not be liable for technical or editorial errors or omissions contained herein. The information contained herein is subject to change without notice.

Restricted rights legend

Confidential computer software. Except as specifically indicated otherwise, a valid license from Micro Focus is required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright notice

© Copyright 2005 - 2018 Micro Focus or one of its affiliates

Trademark notices

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

AMD, the AMD Arrow symbol and ATI are trademarks of Advanced Micro Devices, Inc.

Citrix® and XenDesktop® are registered trademarks of Citrix Systems, Inc. and/or one more of its subsidiaries, and may be registered in the United States Patent and Trademark Office and in other countries.

Google™ and Google Maps™ are trademarks of Google Inc.

Intel®, Itanium®, Pentium®, and Intel® Xeon® are trademarks of Intel Corporation in the U.S. and other countries.

iPad® and iPhone® are trademarks of Apple Inc.

Java is a registered trademark of Oracle and/or its affiliates.

Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

Microsoft®, Windows®, Lync®, Windows NT®, Windows® XP, Windows Vista® and Windows Server® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

NVIDIA® is a trademark and/or registered trademark of NVIDIA Corporation in the U.S. and other countries.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates.

Red Hat® is a registered trademark of Red Hat, Inc. in the United States and other countries.

SAP® is the trademark or registered trademark of SAP SE in Germany and in several other countries.

UNIX® is a registered trademark of The Open Group.

Documentation updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To verify you are using the most recent edition of a document, go to

https://softwaresupport.softwaregrp.com/group/softwaresupport/search-result?doctype=manuals?keyword=.

To check for recent software patches, go to https://softwaresupport.softwaregrp.com/group/softwaresupport/search-result?doctype=patches?keyword=.

This site requires that you register for a Passport and sign in. To register for a Passport ID, go to https://cf.passport.softwaregrp.com/hppcf/login.do.

Or click the **Register** link at the top of the Software Support page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your sales representative for details.

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To verify you are using the most recent edition of a document, go to https://softwaresupport.softwaregrp.com/group/softwaresupport/search-result?doctype=online help.

This site requires that you register for a Passport and sign in. To register for a Passport ID, go to https://cf.passport.softwaregrp.com/hppcf/login.do.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your sales representative for details.

For information and details about the products, services, and support that offers, contact your Client Director.

Support

Visit the Software Support Online web site at https://softwaresupport.softwaregrp.com/.

This web site provides contact information and details about the products, services, and support that offers.

online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Manage software licenses
- Download new versions of software or software patches
- · Access product documentation
- · Manage support contracts
- · Look up support contacts
- Review information about available services
- · Enter into discussions with other software customers
- · Research and register for software training

Most of the support areas require you to register as a Passport user and sign in. Many also require a support contract.

To register for a Passport ID, go to https://cf.passport.softwaregrp.com/hppcf/login.do.

Visit the Software Support Online web site at https://softwaresupport.softwaregrp.com/.

This web site provides contact information and details about the products, services, and support that offers.

online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- · Search for knowledge documents of interest
- · Submit and track support cases and enhancement requests
- Manage software licenses
- Download software
- Access product documentation
- Manage support contracts
- Look up support contacts
- · Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require you to register as a Passport user and sign in. Many also require a support contract.

To register for a Passport ID, go to https://softwaresupport.softwaregrp.com/.

To check for recent updates or to verify that you are using the most recent edition of a document, contact your Client Director.

Contents

Chapter 1: Introduction	7
Chapter 2: Choosing a Mobile Monitoring Solution	8
Mobile Monitoring Options	8
Monitoring Solutions	9
Application Types	9
Protocols	10
Native Mobile Apps - Recording Methods	10
Chapter 3: Android	12
Installing the SDK	12
Creating and Running an Android Virtual Device (AVD)	13
Configuring a Proxy on the Android Network	14
Installing an Application on the Android Emulator	15
Recording a Mobile Native Application	16
Recording a Secure/SSL Native Application	16
Recording a PCAP File on an Android Mobile Device	18
Troubleshooting	19
Chapter 4: iPhone	20
Setting up an Ad Hoc Connection on a Windows Working Station	20
Recording Using an Ad Hoc Connection	20
Chapter 5: Windows Phone 7	22
Installing the Emulator	22
Running the Emulator	22
Recording a Native Mobile Application with VuGen	22
Chapter 6: Blackberry	24

Installing the BlackBerry Emulator	24
Recording a Native Mobile Application with VuGen	24
Chapter 7: WebOS	25
Recording a Native Mobile Application with VuGen	25
Chapter 8: Creating a Script from a PCAP File	26
How to Create a Script from a PCAP File	26
Chapter 9: TruClient	27
Recording Mobile TruClient with VuGen	27
Chapter 10: Proxy Recording	28
Send documentation feedback	29

Chapter 1: Introduction

Business Process Monitor (BPM) runs scripts that are recorded by Virtual User Generator (VuGen). This document provides best practices for using VuGen to record mobile native applications for BPM. The document provides general best practices, as well as explanations about a number of emulators. The document also provides a brief description of how to record scripts using the Mobile True client protocol.

A mobile app (HTTP/HTML) is a protocol that enables you to develop scripts using mobile devices or device emulators that communicate with servers over HTTP. You can record network traffic to a capture file (PCAP file) and create a VuGen script, or you can use a mobile emulator on your VuGen machine to develop scripts.

Mobile emulators are available for free on the web. You must install the correct emulator version that is supported by your application, and meet the system requirements for each emulator software you use.

NOTE:

- This documented in intended for VuGen experts who are recording scripts for BPM.
- For an overview of using LoadRunner for mobile performance testing, see https://community.hpe.com/t5/LoadRunner-and-Performance/Who-s-up-for-some-mobile-performance-testing/ba-p/5974699.

Chapter 2: Choosing a Mobile Monitoring Solution

In order to monitor a mobile application, you need to first answer the following questions:

- 1. Is it a technology-based application using HTML or HTTP (mobile web browser)?
- 2. Is the software installed on the machine locally (native application), or can you browse using browsing software such as IE, Firefox, or Safari?

If the application does **not** support HTML or HTTP, you need to use real-device monitoring like the Perfecto integration.

If the application **supports** HTML or HTTP, you need to decide what is important to you in your application monitoring:

- Do you want to bounce your application via wireless carrier (real wireless carrier network monitoring)?
- Do you only want to monitor your application backend, no matter which network you use (proactive backend-side monitoring)?
- Is it important to you to simulate client activity over a specific device (real-device user monitoring)?

Mobile Monitoring Options

The following tables can help you choose the best solution to your mobile monitoring:

- · Monitoring Solutions, on the next page
- Application Types, on the next page
- Protocols, on page 10
- Native Mobile Apps Recording Methods, on page 10

Monitoring Solutions

Monitoring Solution	Protocols	BPM installation
Real wireless carrier network monitoring	 Mobile TruClient Mobile App (HTTP/HTML) Mobile PerfectoMobil e Integration 	Add to the BPM machine a 3G card to emulate real carrier network connection (except for Perfecto integration).
Proactive backend- side monitoring	Mobile TruClientMobile App (HTTP/HTML)	No need to add 3G card.
Real-device user monitoring	Mobile PerfectoMobile Integration	No need to add 3G card.

Application Types

Application Type	Protocols	Comments
Native	Mobile App (HTTP/HTML) Mobile PerfectoMobile Integration	See Native Mobile Apps - Recording Methods, on the next page for more details.
Web Browser	Mobile TruClient Mobile App (HTTP/HTML)	TruClient works with Firefox browser API , and will soon work with IE.

Protocols

Protocols	Methods	Comments
Mobile TruClient	 Web browser based protocol. Recording using VugGen using a local PC Firefox/IE browser. 	No need for 3G connectionor mobile device, or mobile emulators.
Mobile App (HTTP/HTML)	Supports both web browser, and native: • For web browser recording see above Mobile TruClient comments. • For Native recording, see Native Mobile Apps - Recording Methods, below.	The script is simply an HTTP/Web regular script emulating a specific UserAgent (Device). For SSL applications, either use the Android emulator recording method (which avoids certificate imports), or get the certificate from the application admin, and import it to VuGen to enable decryption.
Mobile PerfectoMobile Integration	This can be done either using a QTP script, or using a VuGen template.	VuGen templates save you the QTP integration, but you must open BPM to the Perfecto open API interface.

Native Mobile Apps - Recording Methods

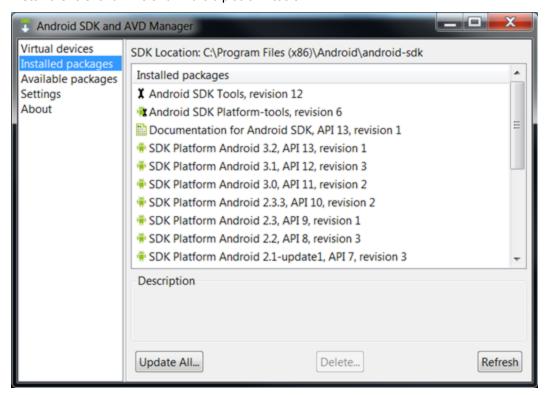
Scenario	If	Then
Proxy Recording	The mobile device can be connected to the same network as the VuGen machine, and;	You can configure your mobile app to use VuGen proxy to record the traffic.

	The app allows proxy configuration	
Server- Side Recording	 You don't want (or can't) record from the actual device, and; The device, server, and VuGen machine are in the same network, and; You only need to record on one server 	Install VuGen's Mobile Sniffer Agent on the server. You can then use the protocol's 'Record and Analyze Traffic' feature, which will use the agent to record the traffic. Note that no 3G is required for recording.
Script from Network Capture	You already have a network capture file, such as WireShark's 'pcap' file	Use the protocol's 'Analyze Traffic' feature to turn it into a script.
Device Emulator Recording	 You don't want (or can't) record from the actual device, and; The mobile OS is Android, and; You have a device emulator available 	Record from the emulator by using the protocol's 'Emulator Recording' feature. Note that no 3G is required for recording.
On- Device Recording	Your Android device is rooted (to allow access to the device's system)	You can install the LoadRunner Mobile Recorder on the device, and use it to record the traffic as a standard 'pcap' file. You can then open the file on your VuGen machine to create a script.

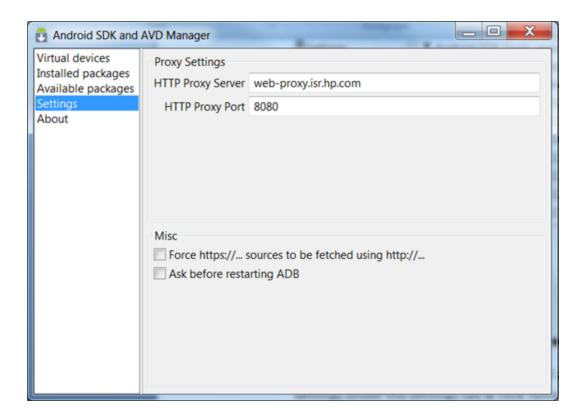
Chapter 3: Android

Installing the SDK

- Download and install the Android SDK from the following location: http://developer.android.com/sdk/index.html.
- 2. Start the SDK Manager.
- 3. Install the relevant APIs and Android platform tools.



4. If the SDK Manager fails to retrieve the list of available tools, check your Internet proxy settings under the **Settings** tab and click **Refresh**.



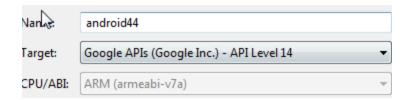
Creating and Running an Android Virtual Device (AVD)

To create an Android Virtual Device:

- 1. Open a command line and navigate to <ANDROID_SDK>\tools, where <ANDROID_SDK> is the path where you installed the Android SDK.
- 2. Use android list targets to view the list of available APIs and their IDs.
- Create a new virtual device using the command: android create avd -n <avd_name> -t
 <target_id>, where:
 - <target_id> is the number taken from the target list
 - <avd_name> is the desired virtual machine name

NOTE:

- In Android 4.0 the AVD Manager is located in the Tools directory.
- Ensure you select a device with Google APIs.

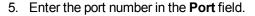


To run an Android Virtual Device:

- 1. Open a command line and navigate to <ANDROID_SDK>\tools, where <ANDROID_SDK> is the path where you installed the Android SDK.
- Run the command emulator @<avd_name>, where <avd_name> is the name you used when creating the AVD.

Configuring a Proxy on the Android Network

- Run the AVD as described in Creating and Running an Android Virtual Device (AVD), on the previous page.
- 2. On the HOME screen, click Menu.
- Select Settings > Wireless & Networks > Mobile Networks > Access Point Names Telkila.
- 4. Enter your proxy address in the **Proxy** field.





Installing an Application on the Android Emulator

- 1. Open the AVD.
- 2. Open a command line and navigate to <ANDROID_SDK>\tools, where <ANDROID_SDK> is the path where you installed the Android SDK.
- 3. Run the command adb install <\$APK>, where <\$APK> is the name of the apk file.

Note the following:

- Ensure you create a device that includes the Google Inc. API.
- If the proxy URL does not work, try using the proxy IP.
- Android does not support PAC proxy URLs. You must specify the exact proxy name or IP.

Recording a Mobile Native Application

- Open VuGen and create a new virtual user (File > New).
- Select Mobile App (HTTP/HTML), and click Start Recording.
- 3. Select **Record Emulator** and configure the following parameters:
 - Emulator to record: Set the path to the emulator.exe file in the Android SDK folder.
 - Command line: Add any command line arguments that are required to run the emulator (for example, @avd_name,).
 - **Working directory**: Set the path to the directory in which the emulator.exe is located (typically ANDROID_SDK_FOLDER\tools).
- 4. Click Finish.
- 5. The Android emulator starts. Open your native app and perform the actions you want to record.
- 6. When you have recorded all the actions, go to VuGen and click **Stop**.
- 7. Select File > Zip operations > Export to zip file. We recommend you choose the Runtime files option for a smaller script size.
- 8. Enter a name for the script and click **OK**.
- 9. Click **OK** again.

The script is now ready to run on Business Process Monitor (BPM).

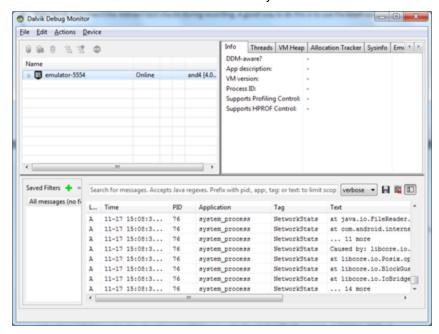
TIP:

- Computer resources: Ensure you have enough computer memory when recording.
- Slow start up: Usually, the emulator start up is very slow and can take several minutes.
- **Text check**: Document the relevant text checks during recording. A good way to do this is to use the Inset comments feature.

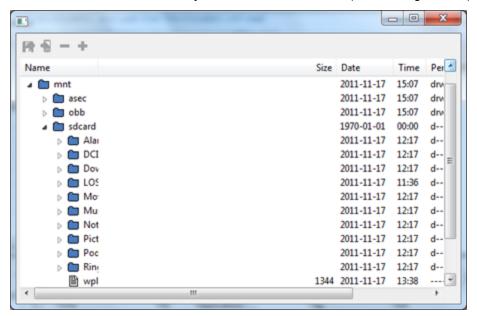
Recording a Secure/SSL Native Application

- 1. Add **sdcard** to the android emulator:
 - a. Open the Android emulator installation directory and run **AVD Manager.exe**.
 - b. Select the Android 4.0 emulator, and choose **Edit**.
 - c. Choose sd card with 10 MB (you can make this any size), and choose Edit AVD to save.
- 2. Copy the VuGen certificate to the sdcard:

- a. Start the Android emulator, and wait for the emulator to load.
- b. Select <android emulator installation directory>\tools\ddms.bat.

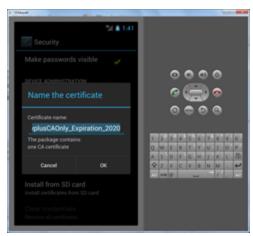


- c. Select the Android emulator > Device > File explorer.
- d. Browse to "/mnt/sdcard" directory > Push file onto device (icon with right arrow).



- e. Choose the certificate: C:\Program Files\Hp\LoadRunner\bin\certs\wplusCAOnly_ Expiration_2020.crt, and make sure it is copied to the sdcard (you should see it under /mnt/sdcard/wplusCAOnly_Expiration_2020.crt).
- f. In the Android 4.0 emulator, select Menu > System Settings > Security > Install from

sdcard (install certificates from sdcard) > wplusCAOnly_Expiration_2020.crt > OK. (Note that you may be asked to add a PIN code.)



g. To verify the certificate is installed, in the Android 4.0 emulator select Menu > System Settings > Security > Trusted Credentials > User. You should see Mercury Interactive Corp Winsock Plus Protocol Interceptor.



Recording a PCAP File on an Android Mobile Device

Prerequisites: You must have an Android-based mobile device with **root** permissions.

To record a PCAP file:

- 1. From the Android Market, download the **Shark** app.
- 2. Open the Shark app and start recording.

Troubleshooting

Problem: The emulator does not load through VuGen.

Solution:

- Check the command line arguments are correct.
- Make sure to change the path for the Android emulator so that each folder name is no longer than 8 characters (for example, program files (x86)\progra~2).

Problem: There is no Internet connection from the emulator.

Solution: Check the proxy settings in Home Screen > Menu > Settings > Wireless & networks > Mobile networks > Access Points Names > Telkila > Proxy.

Problem: The emulator does not record the application through VuGen.

Solution: If your application is using HTTPS/Secure protocol, see Recording a Mobile Native Application, on page 16.

Problem: When you try recording in VuGen you receive an application login failure, but when you launch the application using AVD Manager or a command line, you can log in successfully.

Solution: SSL communication failure; try the following procedure: Recording a Mobile Native Application, on page 16.

Chapter 4: iPhone

Setting up an Ad Hoc Connection on a Windows Working Station

- 1. Make sure the wireless adapter is enabled.
- 2. Select Network and sharing center > Tasks and click Manage wireless networks.
- Click Add.
- Select Create an ad hoc network and click Next.
- 5. Enter a network name and configure the encryption type and password.
- 6. Click Turn on Internet Connection sharing.
- 7. Click Close.
- 8. Connect your mobile device to the new ad hoc connection.

Recording Using an Ad Hoc Connection

- 1. Create an ad hoc connection on your PC as described in Setting up an Ad Hoc Connection on a Windows Working Station, above, and connect your mobile device to the network.
- 2. Open VuGen.
- 3. Select Mobile App (HTTP/HTML).
- 4. Click Start Recording.
- 5. Select the first option: Record and analyze traffic.
- 6. Ensure the host URL and port are correct.
- 7. Click Connect.
- 8. Select the correct network interface from the **Record network interface** combo box.
- 9. Click Start Recording.
- 10. Perform all the actions you want to record on your mobile device.
- 11. Click Stop Recording.
- 12. Save the recorded pcap file.
- 13. Click Next.
- 14. Select whether to filter by server side or client side, and select the IP by which to filter.

- 15. Click Finish.
- 16. Select **File > Zip operations > Export to zip file**. We recommend you choose the **Runtime files** option for a smaller script size.
- 17. Enter a name for the script and click **OK**.
- 18. Click **OK** again. The script is now ready to run on BPM.

Chapter 5: Windows Phone 7

Installing the Emulator

- Download the Windows Phone 7 development kit from the following link: http://www.microsoft.com/download/en/details.aspx?id=13890.
- 2. Follow the on-screen instructions to install.
- 3. If you need to configure a proxy, see http://msdn.microsoft.com/en-us/library/ff754351 (v=vs.92).aspx#BKMK_ConfigProxy.

Running the Emulator

To run the emulator, perform one of the following:

• From the Windows Phone Developer Tools menu, select Windows Phone 7 Emulator.

OR

- From a command line:
- Navigate to where you installed the development kit (default is C:\Program Files (x86)\Microsoft SDKs).
- Navigate to the folder \Windows Phone\v7.0\Tools\XDE Launcher\.
- 3. Run the command XdeLauncher "Windows Phone 7" "Windows Phone 7 Emulator".

Recording a Native Mobile Application with VuGen

- 1. Open VuGen and create a new virtual user (File > New).
- Select Mobile App (HTTP/HTML), and click Start Recording.
- 3. Select **Record Emulator** and configure the following parameters:
 - Emulator to record: Set the path to the xdeLauncher.exe file in the windows SDK folder
 - Command line: Add any command line arguments that are required to run the emulator.

 Default settings are: "Windows Phone 7" "Windows Phone 7 Emulator"
 - Working directory: Set the path to the directory in which the xdeLauncher.exe is located.

The default path is: C:\Program Files (x86)\Microsoft SDKs\Windows Phone\v7.0\Tools\XDE Launcher\.

- 4. Click Finish.
- 5. The Windows Phone 7 starts. Open your native app and perform the actions you want to record.
- 6. When you have recorded all the actions, go to VuGen and click **Stop**.
- 7. Select File > Zip operations > Export to zip file. We recommend you choose the Runtime files option for a smaller script size.
- 8. Enter a name for the script and click **OK**.
- 9. Click **OK** again.

The script is now ready to run on BPM.

Chapter 6: Blackberry

Installing the BlackBerry Emulator

- Access the following link and select the phone model you want to emulate: http://us.blackberry.com/developers/resources/simulators.jsp.
- 2. Follow the on-screen instructions to install.

Recording a Native Mobile Application with VuGen

- 1. Open VuGen and create a new virtual user (File > New).
- 2. Select Mobile App (HTTP/HTML), and click Start Recording.
- 3. Select **Record Emulator** and configure the following parameters:
 - Emulator to record: Set the path to the emulator executable file in the BlackBerry emulator directory (for 9800, the default path is C:\Program Files (x86)\Research In
 Motion\BlackBerry Smartphone Simulators 6.0.0\6.0.0.534 (9800)\9800.bat).
 - **Command line**: Add any command line arguments that are required to run the emulator (for 9800 there are no required arguments).
 - Working directory: Set the path to the directory in which the xdeLauncher.exe is located. The default path for 9800 is C:\Program Files (x86)\Research In Motion\BlackBerry Smartphone Simulators 6.0.0\6.0.0.534 (9800)\.
- 4. Click Finish.
- 5. The BlackBerry emulator starts. Open your native app and perform the actions you want to record.
- 6. When you have recorded all the actions, go to VuGen and click **Stop**.
- 7. Select File > Zip operations > Export to zip file. We recommend you choose the Runtime files option for a smaller script size.
- 8. Enter a name for the script and click **OK**.
- 9. Click OK again.

The script is now ready to run on BPM.

Chapter 7: WebOS

Recording a Native Mobile Application with VuGen

Prerequisites:

- VuGen
- WebOS emulator with Internet access
- Oracle VirtualBox

To record a native mobile application:

- 1. Open VuGen and create a new virtual user (File > New).
- 2. Select Mobile App (HTTP/HTML), and click Start Recording.
- 3. Select **Record Emulator** and configure the following parameters:
 - Emulator to record: Set the path to the emulator executable file in the BlackBerry emulator directory (the default path is C:\Program Files (x86)\HP webOS\SDK\bin\palmemulator.bat).
 - **Command line**: Add any command line arguments that are required to run the emulator (for WebOS there are no required arguments).
 - Working directory: Set the path to the directory in which the xdeLauncher.exe is located.

 The default path for WebOS is C:\Program Files (x86)\HP webOS\SDK\bin\.
- 4. Click Finish.
- 5. The WebOS emulator starts. Open your native app and perform the actions you want to record.
- 6. When you have recorded all the actions, go to VuGen and click **Stop**.
- Select File > Zip operations > Export to zip file. We recommend you choose the Runtime files option for a smaller script size.
- 8. Enter a name for the script and click **OK**.
- 9. Click **OK** again.

The script is now ready to run on BPM.

Chapter 8: Creating a Script from a PCAP File

Creating PCAP on the server side:

- When your application is in testing mode, you can install a sniffer on the application's server machine and capture the entire traffic between the server and different clients.
- By filtering a different mobile device IP each time, you can create different pcaps for each mobile device.

Creating PCAP on the client side

- You can install sniffers on different mobile devices machines and then capture the traffic between the mobile device and the server.
- Once a pcap file is ready, use the following instructions to create a VuGen script from pcap.

How to Create a Script from a PCAP File

- 1. Open VuGen and select Mobile App (HTTP/HTML).
- Click Start Recording.
- 3. Select Analyze traffic.
- 4. Browse to where you saved your pcap file and select it.
- 5. Select whether to filter by server side or client side, and select the IP by which to filter.
- 6. Click Finish.
- 7. Select File > Zip operations > Export to zip file. We recommend you choose the Runtime files option for a smaller script size.
- 8. Enter a name for the script and click **OK**.
- 9. Click OK again.

The script is now ready to run on BPM.

TIP:

Use one pcap file per transaction, and then copy it to one script according to the flow you want to measure.

Chapter 9: TruClient

Recording Mobile TruClient with VuGen

Prerequisites:

- VuGen
- Proxy IP/URL (if you are using a proxy)

To record:

- Open VuGen and create a new virtual user (File > New).
- 2. Select Mobile 'TruClient', and click Develop Script.
- 3. If you are using a proxy, ensure you also set it in the **Recording Options**:
 - a. In VuGen, select **Tools > TruClient General Settings**.
 - b. Add the proxy settings to the **Automatic Proxy Configuration**.
- 4. Select a mobile device from the list.
- 5. Change the resolution, if necessary.
- 6. Click OK.
- 7. The browser loads. Use it to perform the actions you want to record.
- 8. Click Stop.
- Select File > Zip operations > Export to zip file. We recommend you choose the Runtime files option for a smaller script size.
- 10. Enter a name for the script and click **OK**.
- 11. Click OK again.

The script is now ready to run on BPM.

For more information, refer to Virtual User Generator > Help > Mobile Documentation.

Chapter 10: Proxy Recording

In LoadRunner v11.52, a new proxy recording mode was provided. This feature provides a new approach for users to record web applications. It does not require installing any client on mobile devices, so it is particularly suitable for recording mobile applications. It can also be used for desktop operating systems on which VuGen cannot be installed, such as Linux, Mac OS, and so on.

For more details, see:

https://community.hpe.com/t5/LoadRunner-and-Performance/Use-Proxy-Recording-in-LoadRunner-11-52-for-Mobile-Applications/ba-p/6152483

Send documentation feedback

If you have comments about this document, you can contact the documentation team by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on Recording Mobile Apps for BPM - Best Practices (Micro Focus Application Performance Management 9.50)

Add your feedback to the email and click **Send**.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to docs.feedback@microfocus.com.

We appreciate your feedback!