



BreakingPoint QuickTest Release Notes

Release 1.2, March 2020

Release Notes Version 1.0



Notices

Copyright Notice

© Keysight Technologies 2019-2020

No part of this document may be reproduced in any form or by any means (including electronic storage and retrieval or translation into a foreign language) without prior agreement and written consent from Keysight Technologies, Inc. as governed by United States and international copyright laws.

Warranty

The material contained in this document is provided "as is," and is subject to being changed, without notice, in future editions. Further, to the maximum extent permitted by applicable law, Keysight disclaims all warranties, either express or implied, with regard to this manual and any information contained herein, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Keysight shall not be liable for errors or for incidental or consequential damages in connection with the furnishing, use, or performance of this document or of any information contained herein. Should Keysight and the user have a separate written agreement with warranty terms covering the material in this document that conflict with these terms, the warranty terms in the separate agreement shall control.

Technology Licenses

The hardware and/or software described in this document are furnished under a license and may be used or copied only in accordance with the terms of such license.

U.S. Government Rights

The Software is "commercial computer software," as defined by Federal Acquisition Regulation ("FAR") 2.101. Pursuant to FAR 12.212 and 27.405-3 and Department of Defense FAR Supplement ("DFARS") 227.7202, the U.S. government acquires commercial computer software under the same terms by which the software is customarily provided to the public. Accordingly, Keysight provides the Software to U.S. government customers under its standard commercial license, which is embodied in its End User License Agreement (EULA), a copy of which can be found at <http://www.keysight.com/find/sweula> or <https://support.ixiacom.com/support-services/warranty-license-agreements>. The license set forth in the EULA represents the exclusive authority by which the U.S. government may use, modify, distribute, or disclose the Software. The EULA and the license set forth therein, does not require or permit, among other things, that Keysight: (1) Furnish technical information related to commercial computer software or commercial computer software documentation that is not customarily provided to the public; or (2) Relinquish to, or otherwise provide, the government rights in excess of these rights customarily provided to the public to use, modify, reproduce, release, perform, display, or disclose commercial computer software or commercial computer software documentation. No additional government requirements beyond those set forth in the EULA shall apply, except to the extent that those terms, rights, or licenses are explicitly required from all providers of commercial computer software pursuant to the FAR and the DFARS and are set forth specifically in writing elsewhere in the EULA. Key-sight shall be under no obligation to update, revise or otherwise modify the Software. With respect to any technical data as defined by FAR 2.101, pursuant to FAR 12.211 and 27.404.2 and DFARS 227.7102, the U.S. government acquires no greater than Limited Rights as defined in FAR 27.401 or DFARS 227.7103-5 (c), as applicable in any technical data. 52.227-14 (June 1987) or DFARS 252.227-7015 (b)(2) (November 1995), as applicable in any technical data.

Ixia headquarters

26601 West Agoura Road
Calabasas, California 91302
+1 877 367 4942 – Toll-free North America
+1 818 871 1800 – Outside North America
+1.818.871.1805 – Fax
www.ixiacom.com/contact/info

Global Support	+1 818 595 2599	support@ixiacom.com
<i>Regional and local support contacts:</i>		
APAC Support	+91 80 4939 6410	support@ixiacom.com
Australia	+61-742434942	support@ixiacom.com
EMEA Support	+40 21 301 5699	support-emea@ixiacom.com
Greater China Region	+400 898 0598	support-china@ixiacom.com
Hong Kong	+852-30084465	support@ixiacom.com
India Office	+91 80 4939 6410	support-india@ixiacom.com
Japan Head Office	+81 3 5326 1980	support-japan@ixiacom.com
Korea Office	+82 2 3461 0095	support-korea@ixiacom.com
Singapore Office	+656 494 8910	support@ixiacom.com
Taiwan (local toll-free number)	00801856991	support@ixiacom.com

Table of Contents

Overview	5
Document Purpose.....	5
Background	5
Technical Support	5
Documentation	5
New Features	6
Supported Platforms and Compatibility Matrix	6
Installation	8
Upgrading IxOS on Native IxOS systems.....	8
Install BPS QuickTest	9
Known Issues and Defects	10

Overview

Document Purpose

This document provides information regarding the BreakingPoint QuickTest 1.2 release, including information about new features, known defects, resolved issues, and workarounds (if available).

Background

BPS QT (BreakingPoint QuickTest) offers users pre-configured test suites designed to accelerate testing and reduce the network and security operations staff learning curve. Each test suite provides rapid, yet comprehensive verification of application and security scenarios, concise and actionable test scores for faster result analysis, and complete automation for continuous assessment.

Technical Support

To contact the BreakingPoint Support team, e-mail them at support@ixiacom.com or call them at 1-818 595 2599.

Documentation

The listed BPS QT documentation can be obtained at:

<https://support.ixiacom.com/support-overview/product-support/downloads-updates> > **BreakingPoint Software** > **BreakingPoint QuickTest**

- *BreakingPoint QuickTest User Guide*

New Features

BreakingPoint QT 1.2 is an alignment release.

The new features in this release are:

- New Security tests suite
- SUT Scripts feature updated
- NetSecOpen Suite's algorithm updated - taken into consideration only if the reference categories (7.2/7.3 and 7.6/7.7) will run before 7.4, 7.5, 7.8 and 7.9 (otherwise, default values will be used):
 - 7.4 HTTP Transactions per Second:
 - Single transactions stages will be configured with 50% of CPS achieved in 7.2 HTTP Connections per Second
 - Multiple transactions stages will be configured with 50% of TPUT achieved in 7.3 HTTP Throughput
 - 7.5 HTTP Concurrent Connections:
 - This stage will be configured with 80% of CPS achieved in 7.2 HTTP Connections per Second 1KB
 - 7.8 HTTPS Transactions per Second:
 - Single transactions stages will be configured with 50% of CPS achieved in 7.6 HTTPS Connections per Second
 - Multiple transactions stages will be configured with 50% of TPUT achieved in 7.7 HTTPS Throughput
 - 7.9 HTTPS Concurrent Connections:
 - This stage will be configured with 80% of CPS achieved in 7.6 HTTPS Connections per Second 1KB

Supported Platforms and Compatibility Matrix

BPS QT is supported on PerfectStorm ONE, XGS12 and XGS2.

Supported Hardware:

- PerfectStorm 40GE2NG in 8x10G fan out mode
- PerfectStorm 10GE8NG
- PerfectStorm 10GE8QT
- CloudStorm in 8x10G fan-out mode

Compatibility Matrix

BreakingPoint QuickTest	9.02
BreakingPoint	9.00
IxOS	9.00 Patch1/Patch2
IxLoad	9.00
IxNetwork	9.00

Licensing	5.10/5.20
-----------	-----------

Browser Compatibility

The following table lists the supported the HTML browsers. HTML browser versions that are more current than the versions listed in the table may work, but have not been tested at this time. Beta versions of HTML browsers are not supported.

Browser	Recommendation for Windows	Recommendation for MAC
Google Chrome	80.0.3987.149 (64-bit)	80.0.3987.149 (64-bit)
Firefox	74.0 (64-bit)	74.0 (64-bit)
Microsoft Edge	80.0.361.62	N/A
Safari	Not supported	13.1
Internet Explorer	Not supported	Not supported

Installation

Systems running Windows IxOS (PSOne)

If your system is running Windows IxOS, please follow the steps below to convert to Native IxOS and install the BreakingPoint image to the system.

You can download the conversion guide along with the necessary files from the Ixia support web page.

1. Go to: <https://support.ixiacom.com/> and then log in.
2. Select **Software Downloads > IxOS > 9.0**.
3. For question #1, select **PS One**.
4. For question #2, select **Windows** for Base software.
5. For question #3, select the **Yes** radio button to get to the conversion guide.
6. Follow the instruction from the *Converting XGS and PSOne to NativeIxOS Guide* (PDF).
7. Follow the steps in the [Upgrading IxOS on Native IxOS systems](#) section.

Note: After conversion to Native IxOS there may not be enough available disk space to restore a previously exported backup (especially for files larger than 1GB). If there is not enough space available, you can delete the preconversion BreakingPoint data by using the IxOS CLI command, `uninstall bps legacy` (which frees up 250GB of disk space). Be aware that if you are reverting back to a Windows-based architecture, BPS application (BPS VM) will not start after uninstalling BPS legacy.

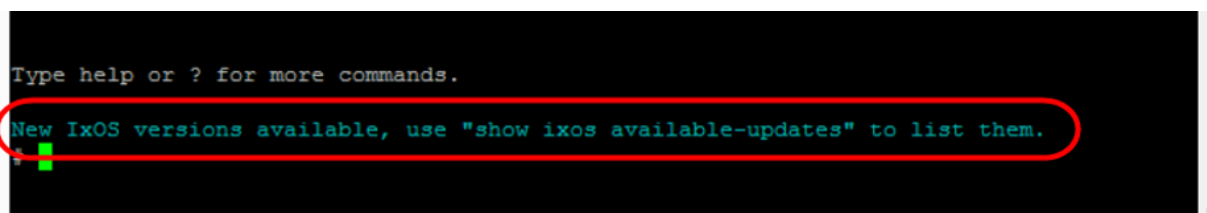
Note: For systems running Native IxOS, we strongly recommend that you create backups of your system before upgrading the BreakingPoint Firmware.

Upgrading IxOS on Native IxOS systems

Online:

1. Access the Ixia Chassis CLI with the following command, `CLI - ssh admin@< chassisIP> -p 22, password: admin`
2. Then apply command **enter Chassis** to access the Chassis CLI.

You will be notified through the CLI when new builds of IxOS (IxOS9.00) are available.



```
Type help or ? for more commands.  
New IxOS versions available, use "show ixos available-updates" to list them.
```


3. Run the `install ixos <version>` command to perform the install. The build will be installed automatically from Ixia IxOS online repository (which is predefined in the OS).

Offline:

1. Download the IxOS build from <https://support.ixiacom.com/ixos-software-downloads-documentation>.
2. Use FTP to put the file on to the Chassis.

```
ftp://<chassisIP>
user: admin
password: admin
```

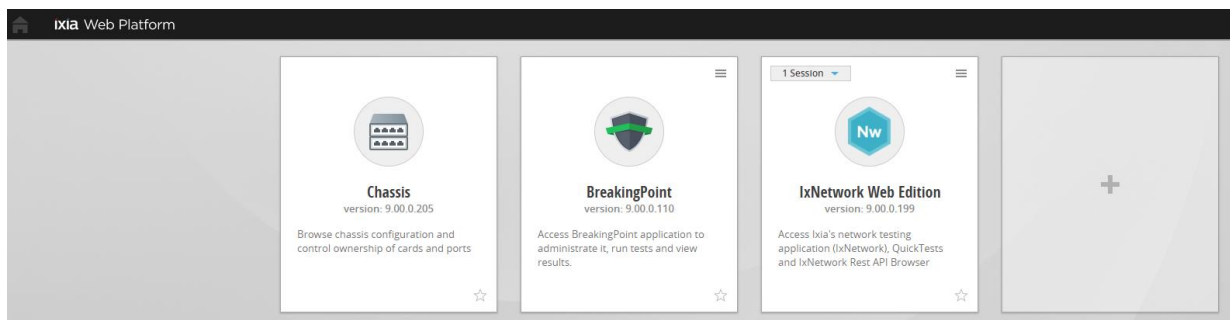
```
Put Ixia_Hardware_Chassis_XX.XX.XX-EA.tar.gz.gpg
```

4. Access the IxOS using the following command, `ssh admin@<chassisIP> -p 22, password: admin`
5. Apply command **enter Chassis** to access the Chassis CLI.
6. Run the `install ixos <version>` command to perform the install of the version that was downloaded.
7. Reboot the chassis.

Install BPS QuickTest

1. After the IxOS installation is complete, connect to Chassis IP as follows: `https://<Chassis IP>`
2. Log in by using user id: admin, password: admin.

After logging in, the WebPlatform Dashboard will display as shown in the image below.



3. Select the **Install New Applications** icon (+) to install BreakingPoint QuickTest using the BreakingPoint QuickTest installer Package (`ixia-web-platform-bpse-9.02.0.27.e17.x86_64.waf`). You can download the installer package (`ixia-web-platform-bpse-9.02.0.27.e17.x86_64.waf`) from the IXIA support download webpage.
4. Select the Installer Package.
5. Select **OK** to start the BreakingPoint QuickTest installation.

Known Issues and Defects

The following section details the known issues and defects of BPS QT Release 1.01. Workarounds are listed for each defect if they are available. If you have any concerns or questions regarding the defects listed here, please contact the BreakingPoint support team at support@ixiacom.com or call them at 1-818-595-2599.

Reference #	Description
BUG1516052	Each Stage that is executed in BPS QT appears as a test result in BPS Classic if both are installed on the same chassis.
BUG1515536	At some video display resolutions, the entire main page of the BPS QT app will not fit on the screen and the scroll element will not be displayed. This will cause some UI components to not be fully accessible (for example the suite carousel controls). Workaround: To work around this issue, zoom out until the components are fully displayed.
BUG1506982	On some overloaded setups, during more intensive tests, it is possible to get a notification that, "The application encountered an internal server error". This does not impact the functionality of the test and can be ignored.
BUG1495617	In the Real Time Statistics graphs, two values are sometimes displayed for the same timestamp and the graph looks skewed. This is only a display issue which does not affect the functionality.
BUG1533084	Some strikes could be displayed as N/A at the end of the test when no iterations are sent. If the iterations are only sent partially, the allowed/blocked decision will be taken based on the iterations that were sent. Side effect: The message, "Application background traffic performance has degraded by at least 20%," will be displayed although there was actually no degradation of the background traffic.
BUG1529970	Periodically the error message, "The application encountered an internal server error", is displayed when no error condition exists.
BUG1520200	When installing/uninstalling the QuickTest application, be aware that the IxServer will restart.
BUG1535248	The Print summary feature, which generates a report after a test is finished, is only supported when using the Chrome browser.

BUG1534885

During a Security suite test run, refreshing the UI could be necessary to display all of the pie charts.