



RUM Client Monitor - Diagnostics Integration Guide

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Welcome to This Guide

Welcome to the HPE RUM - Diagnostics Integration Guide. This guide describes how to set up and verify an integration of Diagnostics with Real User Monitor (RUM).

For details on the tested environments, see "System Requirements" on page 8.

Chapter 1: Introduction to the Integration of Diagnostics with RUM

General information is provided about the integration between HPE RUM and HPE Diagnostics.

This section includes:

- "Overview" below
- "Architecture" below
- "How Data is Collected" on the next page
- "System Requirements" on page 8
- "Documentation" on page 8

Overview

Integrating HPE Real User Monitor (RUM) with HPE Diagnostics combines RUM's end-user experience monitoring with Diagnostic's backend monitoring, which provides:

- Visualization of the end-user experience using RUM's capabilities (such as locations, actions, external domains, global statistics, events, content extractions, and so forth).
- An end to end problem isolation tool that can help detect problems in the end-user experience, with the ability to drill down to Diagnostics.

Applications are often required to exchange information with back-end servers. For example, to get the status of a user's bank account, receive updates from friends, or post a new picture to a blog. In all cases, the response time of such network communication has a direct effect on the overall user experience and satisfaction from the application. Various parameters can affect these response times, from the network load to hardware problems on back-end servers. Identifying slow response times and pinpointing the problematic area is an important step in improving performance.

The RUM Client Monitor Probe provides a real end-user perspective on application health, as users interact with an application. It collects performance and exception data from the user's browser almost in real time. The RUM Client Monitor Probe solution uses a JavaScript that is injected into the relevant pages of an application to gather the required data. When RUM and Diagnostics are integrated, Diagnostics can enable the automatic injection of this JavaScript into the relevant pages, thereby reducing the need for manual configuration.

Architecture

The following diagram shows how RUM and Diagnostics integrate so that an application's performance and availability data is collected through a client's browser.



How Data is Collected

Client monitoring is enabled for the RUM Client Monitor Probe by the injection of a RUM JavaScript (clientmon.js) into the relevant pages of an application.

Note: The JavaScript is injected into JSP and ASP.NET pages, but not into html pages which are static files.

When RUM and Diagnostics are integrated, you can configure the Diagnostics client monitor (by changing the path to the JavaScript it applies) so that it uploads the RUM JavaScript (clientmon.js) to the application server, and thereby to an application's JSP pages, for monitoring by a RUM Client Monitor Probe. (In addition to initializing the machine's IP address.) As users interact with the application in their browser, relevant performance and exception metrics are sent as server requests to Diagnostics, and as HTTP POSTs to the RUM Client Monitor Probe.

This data is included in Diagnostics and RUM reports. When RUM and Diagnostics are integrated, in Application Performance Management (BSM/APM), you can drill down from various RUM reports to relevant Diagnostics reports for a specific request.

System Requirements

Integrating the RUM Client Monitor and Diagnostics can be done in versions 9.23 and later.

For more information on system requirements, refer to the Diagnostics System Requirements Guide and the Real User Monitor Installation and Upgrade Guide. These guides are located on the HPESoftware Support site. Access requires an HPE Passport login (register for an HPE Passport).

Documentation

The following documentation can be useful when setting up the integration between RUM and Diagnostics:

- Business Service Mamagement Installation Guide
- Diagnostics Server Installation and Administration Guide
- Diagnostics Java Agent Guide
- Diagnostics .NET Agent Guide
- Diagnostics BSM-Diagnostics Integration Guide
- Real User Monitor Installation and Upgrade Guide (refer to the chapters for Installing the RUM Engine and the RUM Client Monitor Probe)

Chapter 2: Setting Up an Integration Between RUM Client Monitor and Diagnostics

Information is provided on setting up the integration between HPE RUM and HPE Diagnostics.

This section includes:

- "Task 1: Enable Page Component Breakdown in BSM" below
- "Task 2: Configure the Integration for the Java Agent" on the next page
- "Task 3: Configure the Integration for the .NET Agent" on page 12
- "Task 4: Verify the JavaScript" on page 14

Task 1: Enable Page Component Breakdown in BSM

In BSM, enable Page Component Breakdown for an application.

- 1. Select the Admin > End User Management > Monitoring tab.
- 2. Select the relevant application CI in the tree.
- 3. In the Application view, select the **Real User Monitor > Data Collection** tab.

Business Service Management - End	er Management Administration	Standard View
Browse Search and Replace	Application "cyclos"	CI Properties Business Process Monitor Real User Monitor
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🕂 📾 R_Y_G 🛛 🔾	Enable page component breakdown	
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🗈 📾 random_85 🛛 🔾	Engote traine unification	
🖭 random_status	Enable automatic page classification	
🕀 📾 tx_5_10_15 🕓		
🕒 🖬 tx_fail 💿	Exclude BPM data	
🕒 🖬 tx ok		
E- Sugen_101_transactions	Sensitive Data	
O cyclos		

4. In the General pane, select the Enable page component breakdown check box.

General
✓ Enable clickstream
Enable page component breakdown
En <u>a</u> ble frame unification
Ena <u>b</u> le automatic page classification
Exclude BP <u>M</u> data

Task 2: Configure the Integration for the Java Agent

We recommend that you configure the integration for the Java Agent when installing a Java Agent on Windows using **setup.cmd**. For details, see "Installing and Configuring Java Agents" in the Java Agent Guide.

To configure the integration for the Java Agent manually:

1. Copy the RUM JavaScript (clientmon.js) from the RUM installation package. Save it on the Web server, in the **webApps** directory and in the same domain as the application server. The following is an example of the path for an application called **cyclos**:

C:\tomcat7\webapps\cyclos\clientmon.js

- 2. On the Web Application Server machine, change the dynamic configuration parameters in the C:\JavaAgent\DiagnosticsAgent\etc\dynamic.properties file.
 - a. Edit the html.cm.inst tag and replace the original JavaScript snippet:

```
html.cm.inst = <!-- -->\n\
<!--script>\n\
if (window.t_firstbyte === undefined) {\n\
    var t_firstbyte = Number(new Date());\n\
}\n\
</script>\n\
</script>\n\
<script type='text/javascript' src='/HPDiagCM/boomerang-min.js'>\n</script>\n\
<script>\n\
BOOMR.init({beacon_url:"/HPDiagCM/B",RT:{cookie:"X-HP-CM-RT",cookie_
exp:600,expandFrames:true,hashURLs:true},HP:{cookie:"X-HP-CM-GUID"}});\n\
</script-->
```

with the following JavaScript snippet required for the integration:

</script>

The following table describes the par	ameters used in the JavaScript snippet:
---------------------------------------	---

Parameter Name	Description
SrC	The full URL address accessible from the end-user browser to the file source containing the RUM Client Monitor Probe JavaScript. The default file name is clientmon.js .
probeURL	The URL of the RUM Client Monitor Probe to which the monitored client data is sent. The format for the parameter is: <protocol>://<host>:<port>/hpclientmon/data Note: The value must be enclosed with quotation marks ("value"). For example: "http://probeHostName:8080/hpclientmon/data"</port></host></protocol>
sProbeURL	The URL of the RUM Client Monitor Probe to which the monitored client data is sent, if using https. The format for the parameter is: <protocol>://<host>:<port>/hpclientmon/data Note: The value must be enclosed with quotation marks ("value"). For example: "https://probeHostName:2021/hpclientmon/data"</port></host></protocol>
enableCbd	If set to true, collects component breakdown information for each page.
cmHpCamColor	HTTP header field. Encodes the same information as X-HP-CM-GUID as well as the host IP address.
X-HP-CM-GUID	A cookie used by Diagnostics Client Monitoring. It is used to identify the probe group, probe, host, and server request in an opaque way. It is not processed by the boomerang-min.js on the client side in any way, but is sent back when reporting client side latency.

- b. Increase sampling by setting the **client.monitoring.sampling.percent** tag to 100.
- c. Force instrumentation activation by setting the html.cm.activation.forced tag to true.
- d. To enable client monitoring HTML/JSP auto-instrumentation, set the **html.cm.enable** tag to **true**.
- e. To enable client monitoring, set the **client.monitoring.enabled** tag to **true**.
- 3. Restart Tomcat to update the above changes.

Task 3: Configure the Integration for the .NET Agent

We recommend that you configure the integration automatically as part of the .NET Agent installation. For details, see "Installing .NET Agents" in the HPE Diagnostics .NET Agent Guide.

To configure the integration for the .NET Agent manually:

1. Copy the RUM JavaScript (clientmon.js) from the RUM installation package.Save it on the .NET IIS Application Server in the root directory of the web application which is being monitored. The following is an example of the path for an application called **CallChain**:

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C:\DiagWebTests\CallChain2_0\clientmon.js

- 2. Disable and enable the HP .NET Probe.
- 3. On the Diagnostics .NET Agent machine:
 - a. Create and Edit the file C:\MercuryDiagnostics\.NET Probe\etc\HPDefaultInst.hpcm with the following JavaScript snippet required for the integration:

```
<script type="text/javascript" src="clientmon.js"id="id_hp_
cmMonitorJsEl"></script>
<script type="text/javascript">
cm_impl.init({
enableCbd: true,
probeURL: "http://[RUM CM probe URL]:8080/hpclientmon/data",
sProbeURL: "https://[RUM CM probe URL]:2021/hpclientmon/data",
cmHpCamColor: "V=1;ServerAddr=6wZpZK3gOlDz0t+stkKBmA==;
```

```
GUID="+BOOMR.utils.getCookie("X-HP-CM-GUID")\n\
});
</script>
```

The following table describes the parameters used in the JavaScript snippet:

Parameter Name	Description
src	The full path to the file source containing the RUM Client Monitor Probe JavaScript. The default file name is clientmon.js .
probeURL	The URL of the RUM Client Monitor Probe to which the monitored client data is sent. The format for the parameter is: <pre><pre>cprotocol>://<host>:<port>/hpclientmon/data</port></host></pre></pre>
	Note: The value must be enclosed with quotation marks ("value"). For example: "http://probeHostName:8080/hpclientmon/data"
sProbeURL	The URL of the RUM Client Monitor Probe to which the monitored client data is sent, if using https. The format for the parameter is: <protocol>://<host>:<port>/hpclientmon/data</port></host></protocol>
	Note: The value must be enclosed with quotation marks ("value"). For example: "https://probeHostName:2021/hpclientmon/data"
enableCbd	If set to true, collects component breakdown information for each page.
cmHpCamColor	HTTP header field. Encodes the same information as X-HP-CM-GUID as well as the host IP address.
X-HP-CM-GUID	A cookie used by Diagnostics Client Monitoring. It is used to identify the probe group, probe, host, and server request in an opaque way. It is not processed by the boomerang-min.js on the client side in any way, but is sent back when reporting client side latency.

- b. The table below describes the parameters in the **Probe_config.xml** file that you can configure for client monitoring. Ensure that:
 - The clientmonitoring enabled parameter is set to true.
 - The clientmonitoring > htmlinstrumentation file parameter is set to **HPDefaultInst.hpcm**.

Configuration	Description	Values	Default
clientmonitoring enabled	Turns client monitoring on/off	 true false	false

Configuration	Description	Values	Default
clientmonitoring samplemethod	Specifies which method to use for sampling	 percent count period 	percent
clientmonitoring samplerate	Specifies the rate for sampling	 for percent rate must be 0-100 for count rate must be >1 for period rate must be one of standard Diagnostics time strings (3m for 3 minutes, 4s for 4 seconds, and so forth) 	100
clientmonitoring > htmlinstrumentation file	The name of the file containing alternate client monitoring instrumentation, placed in the etc folder	HPRUMCMInst.hpcm	null
clientmonitoring > filter type	Specifies whether Web pages should be included or excluded from client monitoring	includeexclude	exclude
clientmonitoring > filter > url name	Specifies which Web pages should be included or excluded from client monitoring. Accepts regular expressions.	/CallChain.*	include every page

4. Restart IIS to update the above changes.

Task 4: Verify the JavaScript

To verify that the JavaScript has been successfully injected into your application pages:

- 1. Open a browser and access one of the relevant application pages (for example, http://[server name]:8080/cyclos/CallChain).
- 2. In the page's source code, search for the injected Javascript.

Chapter 3: Viewing Monitored Data

To view data monitored by both RUM and Diagnostics:

- 1. Browse the application to generate data.
- 2. In BSM, select **Applications > End User Management > Analysis Reports > RUM Session Analyzer**. (You can also view the RUM Action Summary report.)

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		Subgroup				
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2/3/2014 6:02 PM	HTTP-Web	Others [0.0.0.0-255.2	22.22.2.77	-	USA	No
2/3/2014 6:02 PM	HTTP-Web	Others [0.0.0.0-255.2	22.22.2.66	-	USA	No
2/3/2014 6:02 PM	HTTP-Web	Others [0.0.0.0-255.2	22.22.2.55	-	USA	No
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2/3/2014 6:02 PM	HTTP-Web	Others [0.0.0.0-255.2	22.22.2.33	-	USA	No
2/3/2014 6:02 PM	HTTP-Web	Others [0.0.0.0-255.2	22.22.2.22	-	USA	No
2/3/2014 6:02 PM	HTTP-Web	Others [0.0.0.0-255.2	22.22.2.11	-	USA	No

3. Select a session and click the **View Session Details** button to drill down to the Session Details report.

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4. Select one of the dynamic actions in the list and click the **Drill down to Diagnostics details** button to view service request details for the action. The Diagnostics Server Request view opens in a new window with the relevant request selected.



5. From the graph, drill down to the selected request.



Note: If server request data is trimmed, the drilldown from RUM to Diagnostics for that request will fail as such server request data is not captured by Diagnostics.

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