

# HP Business Process Monitor

For the Windows® operating system

Software Version: 9.22

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## Release Notes

Document Release Date: April 2013

Software Release Date: April 2013



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## Release Notes

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For information about third-party or open source license agreements, see the `Open_Source_and_Third_Party_Agreements` directory on the product installation media.

## 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.

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**[http://h20230.www2.hp.com/new\\_access\\_levels.jsp](http://h20230.www2.hp.com/new_access_levels.jsp)**

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## What's New in This Release

- Protocol Support
  - Support for the Ajax TruClient IE protocol. This is a new protocol that brings TruClient capabilities to Internet Explorer 9. This new addition to the Ajax TruClient family expands support to Internet Explorer based applications. The Snapshot on Error feature is available for this protocol.
  - The Ajax TruClient Firefox protocol has been improved with the following enhancements:
    - Moving to Firefox 8 for improved performance.
    - HTML5 support.
    - TruClient Engine - The engine has enhanced performance, and improved heuristics have been implemented.
  - Citrix Support - XenApp 6.5 and Support for Citrix XenDesktop has been added. In addition, a new set of functions are available: Ctrx\_Logoff, Ctrx\_Get\_Server\_Name, ICA file adjustment, and Citrix Access Gateway support.
  - Oracle NCA - Support for Oracle forms 11 has been added.
  - Web (HTTP/HTML) & Flex Protocol Asynchronous Support - asynchronous behavior (Long Poll and Push communications). Advanced web applications contain a lot of asynchronous communication designed to keep information current and up to date. Applications such as chat, messaging, stock tickers, and news updates all use various asynchronous mechanisms such as Poll, Long Poll, and Push to maintain data. Support for these mechanisms has been added to Web (HTTP/HTML) Vuser scripts, the Web (HTTP/HTML) protocol layer inside Flex, and Web Services Vuser scripts. Asynchronous communications are recognized automatically and the recorded script is updated accordingly.
  - Additional support for Web (HTTP/HTML):
    - A new web\_set\_pac API that enables you to change the PAC setting from within the script.
    - The maximum number of concurrent connections to the server is automatically configured based on the User-Agent string.
  - Business Process Monitor (BPM) can run scripts for which the Data Format Extensions (DFE) flag is checked, or that use DFE APIs.

A web page can be built using several different technologies. The use of different content types makes it difficult to understand and maintain scripts.

To support an ever growing number of different formats, HP has introduced Data Format Extension (DFE). Using DFE, raw HTTP traffic is converted into maintainable, structured format, generally XML. The script can then be maintained in the same way as a script based on a textual web page.

DFE extension configuration files are located in the ...\**<ScriptFolder>\DfeConfig**\ folder of the script.

## Release Notes

### What's New in This Release

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- Security Enhancements
  - BPM instance user's passwords are stored using an advanced encryption mechanism. An implementation of the AES algorithm, compatible with the standard JAVA JCE - "AES/ECB/NoPadding" algorithm, was added.
  - A BPM instance can run with a non-administrator user account.
  - BPM supports SHA256 encryption algorithm in. If the BSM Gateway Server is configured for SSL and the server certificates were issued using SHA256, BPM will be able to connect.
- The following third party software has been updated:
  - CURL 7.28.0
  - OpenSSL 1.0.0.3
  - Java 1.70\_09
  - Tomcat 7.0.29
- Prerequisites are automatically installed in a silent installation. You no longer have to install the BPM prerequisites manually prior to a silent installation.
- Upgrade of the BPM Administration Console Java to version 7.
- Assorted bug fixes and enhancements.
- As of version 9.13.1, language support for:
  - French
  - Russian
  - Spanish
  - German
  - Simplified Chinese
  - Japanese
  - Korean



## Business Process Monitor 9.22 Files

Business Process Monitor 9.22 includes the following files:

File Name	Description	Supported Platforms	Zip Content
BusinessProcessMonitorDeployment.pdf	Business Process Monitor Deployment guide	N/A	N/A
BusinessProcessMonitor_ReleaseNotes.pdf	Business Process Monitor Release Notes	N/A	N/A

## Release Notes

### Business Process Monitor 9.22 Files

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File Name	Description	Supported Platforms	Zip Content
BPM_V9.22_win.zip	BPM 9.22 for Windows platform - installation and documents	<ul style="list-style-type: none"><li>• Microsoft Windows Server 2008 SP2 (32/64 bit) Standard and Enterprise Editions</li><li>• Microsoft Windows Server 2008 R2 SP1 (64 bit) Standard and Enterprise Editions</li><li>• Microsoft Windows 7 SP1 (32/64 bit)</li><li>• Microsoft Windows Server 2003 R2 SP2 (32 bit) Standard and Enterprise Editions</li><li>• Microsoft Windows XP Professional SP3 (32 bit)</li></ul>	<ul style="list-style-type: none"><li>• HPBPM_v9.22_win.exe</li><li>• version.txt</li><li>• BusinessProcess Monitor_ReleaseNotes.pdf</li><li>• BusinessProcessMonitorAdmin.pdf</li><li>• ScriptRepositoryFilters.zip.</li></ul>

**Release Notes**

Business Process Monitor 9.22 Files

File Name	Description	Supported Platforms	Zip Content
Vugen_11.50_Patch1.zip	HP Virtual User Generator 11.50 and Patch 1 installation and documents	<ul style="list-style-type: none"><li>• Microsoft Windows Server 2008 SP2 (32/64 bit) Standard and Enterprise Editions</li><li>• Microsoft Windows Server 2008 R2 SP1 (64 bit) Standard and Enterprise Editions</li><li>• Microsoft Windows 7 SP1 (32/64 bit)</li><li>• Microsoft Windows Server 2003 R2 SP2 (32 bit) Standard and Enterprise Editions</li><li>• Microsoft Windows XP Professional SP3 (32 bit)</li></ul>	<ul style="list-style-type: none"><li>• SetupVuGen.exe</li><li>• LRVUG_00030.exe (Patch 1 installation file)</li><li>• HP LoadRunner VuGen User Guide.pdf</li><li>• HP Virtual User Generator 11.50 SP1 Readme.txt</li><li>• LR11.51_Readme.htm</li></ul>

**Release Notes**Business Process Monitor 9.22 Files

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File Name	Description	Supported Platforms	Zip Content
QTP_V11.rar	HP QuickTest Professional 11.00 and patches QTP_00944, QTP_00994 installation and documents	<ul style="list-style-type: none"><li>• Microsoft Windows Server 2008 SP2, SP2R2 32 &amp; 64 bit</li><li>• Microsoft Windows 7 32 bit</li><li>• Microsoft Windows Vista SP2 32/64 bit</li><li>• Microsoft Windows 2003 SP2, SP2R2 32 bit</li><li>• Microsoft Windows XP SP3 32-bit</li></ul>	<ul style="list-style-type: none"><li>• DVD.rar</li><li>• QTP_00944.zip</li><li>• QTP_00994.zip</li><li>• Readme.htm</li><li>• QT_Install_Guide.pdf</li></ul>

# Installation Requirements

You can find requirements and steps to install Business Process Monitor in the Business Process Monitor Deployment Guide on the product installation media or in the download package.

After installation, the Business Process Monitor Administration Guide is available at this location:

- Online version - In the BPM Web Console's help menu.
- PDF version - On the BPM machine, select Start menu > All programs > HP Business Process Monitor > Documentation.

## Installation Notes

This section describes the BPM 9.22 installation requirements and procedures.

## Prerequisites

Before installing Business Process Monitor 9.22, you must remove any previous installations of Business Process Monitor.

## Business Process Monitor Installation

For Business Process Monitor installation instructions, refer to the Business Process Monitor Deployment guide (BusinessProcessMonitorDeployment.pdf).

## BSM/BAC Manual Update Procedure

Update the HP Business Availability Center 8.x or HP Business Service Management 9.x systems with which Business Process Monitor 9.22 communicates, as follows:

- Extract the ScriptRepositoryFilters.zip file into a temporary folder (use the Extract Here command).
- Copy the content of the temporary folder to the **HPBAC\data\protocols** folder on the BAC 8.x machine, or to the **HPBSM\data\protocols** folder on the BSM 9.x machine. Do not copy the **ScriptRepositoryFilters** directory itself.
- If prompted, overwrite any existing files.
- You do not need to restart the BAC/BSM system.

## Advanced Encryption

Business Process Monitor 9.22 includes advanced encryption binary files. For instructions on working with advanced encryption, refer to the "Password Encryption" chapter in the Business Process Monitor Administration guide.

## Notes and Limitations

Problems and limitations are identified with a Change Request number (QCCRxxxxxxx). Use this number when looking for more information about the problem on the [HP Software Support](#) web site, or when communicating with your HP Support representative.

## Business Process Monitor

BPM installation fails if the temporary folder name includes non-English characters (QCCR1166537).

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Breakdown and coloring for the Ajax TruClient for Internet Explorer protocol are not supported.

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The Snapshot on Error feature is not supported for the Ajax TruClient protocol.

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When exporting an Ajax TruClient script to a zip file, select the **only runtime files** option.

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The Ajax TruClient for Internet Explorer protocol does not support a proxy configuration, due to a limitation of LoadRunner (LR) 11.50 SP1.

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Before running an Ajax TruClient script recorded in VuGen versions earlier than VuGen LR11.50 SP1, open the script in Vugen LR11.50 SP1 and save it.

## Documentation

If you experience a JavaScript error when opening the Business Process Monitor online Help system, disable the "Show Exception Dialog Box" in the Java Console and open the help again.

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When viewing the HP Business Process Monitor online Help system in Internet Explorer 8 or later, numbered or alphabetical lists may appear corrupted.

**Workaround:** In IE, view the HP Business Process Monitor online Help system in Compatibility View.

## Fixed Issues

Problems and limitations are identified with a Change Request number (QCCRxxxxxxx). Use this number when looking for more information about the problem on the [HP Software Support](#) web site, or when communicating with your HP Support representative.

BPM business day parameterization problem (QCCR1136382)

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BPM cannot run scripts for which the Data Format Extensions (DFE) flag is checked, or that use DFE APIs (QCCR1155181)

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BPM support for SHA256 or higher encryption algorithms. If the BSM Gateway Server is configured for SSL and the server certificates were issued using SHA256, BPM is not able to connect (QCCR1168404)

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When BPM runs on a Windows XP or 2003 machine with the default workspace location, scripts with very long names (more than 30 characters), or script .zip files containing very long paths, may not be downloaded successfully by BPM (QCCR1162447).

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Different Parameters problem in .dat-orig and .dat files (QCCR1170515)

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BPM in cluster mode: Instance's setting in SSL host name validation set to "No host name validation" and "None" have no effect (QCCR1174595)

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After clicking the Refresh button for the first time, the BPM Admin tree disappears. After clicking Refresh again, the collapsed root node appears in the tree and the right panel's content is reset to 'root' node position (QCCR1175345)

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Instance creation problem after migrating to JDK 7 (QCCR1175863)

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Tomcat passwords storage improvement (QCCR1176231)

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Disable Web Service API calls due to security reasons (QCCR1176232)

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Update Sandbox policy when running TruClient scripts (QCCR1176234)

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Wrong path for mdrv.log button in BPM Administration Console (QCCR1176256)

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Silent installation - Not all prerequisites were installed automatically (QCCR1180240)

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Fixing vulnerability in magentservice.exe allows remote code execution (QCCR1180860)

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Non-English characters are corrupted in BPM Administration Console log viewer (QCCR1176909)

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## Release Notes

### Fixed Issues

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BPM as a Sandbox does not work with scripts that contain Japanese characters in their name (QCCR1I81359)

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Sandbox in BSM 9.13 passes insecure scripts for Public POPs (QCCR1I77905)

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BPM fails to run scripts as a specific user when BPM restarts while there is no connection with BSM (QCCR1I74086)

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BPM script with Latin special characters in its name does not run properly (QCCR1I76904)

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BPM 9.13.1 - In the port-install wizard, when you create an instance that is run by a specific user and use the Back button, this user is set for the whole BPM and you cannot change it (QCCR1I73750)

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BPM 9.13 Some strings are cut in the "Set User Credential" window on almost all i18n locales (QCCR1I71824)

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Add the information in KM1245220 to the BPM release notes (QCCR1I66055)

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## Enhancement Requests

The reference number for each defect is the Change Request (QCCR) number. For more information about pending enhancement requests, visit [HP Software Support Online](#), or contact your HP Support representative directly.

**Title:** Availability of scripts should be affected by aborted scripts (QCCR1162452).

**Description:** An Implementation of an additional behavior for BPM timeout was added based on the ScriptEndStatusTimeout flag with values = [default, force\_no\_transdata, force\_fail\_status] defined in the topaz\_data\_server.cfg file.

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**Title:** BSM 9.12 / BPM / VuGen - if lr\_fail is out of a transaction, script is going to vuser end (QCIM1178828F).

**Description:** Implementation of additional behaviors for Data Server for scripts ending with errors was added based on the ScriptEndStatusError flag with values = [default, force\_fail\_status] defined in the topaz\_data\_server.cfg file.

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**Title:** Add CAC support to BPM (QCCR1174793).

**Description:** CAC provides a solution for accessing the BPM Administration Console by LDAP authentication.

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**Title:** BPM 9.x Admin Page Does Not Show Monitors in Alpha-Sorted Order (QCCR1177556).

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**Title:** Support installing and running BPM on a VMWare platform (QCCR1134444).

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**Title:** Upgrade java to version 7 due to security vulnerabilities (QCCR1177474)