

BigFix Inventory 10.0.10.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.10.0.

The update is cumulative and contains changes that were provided in the previous updates.

Name of the component	Version	Updated in this Release
BigFix Inventory Content Site	155	Yes
BigFix Inventory Software Catalog (main version)	10.0.10.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638744	Yes
BigFix Inventory Server	10.0.10.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.28.0	Yes
BigFix Inventory Server: ILMT Catalog	9.2.28.0	Yes
BigFix Inventory Scanner	9.2.28.1000 on Windows 9.2.28.0000 on other platforms	Yes Yes
BigFix Inventory Disconnected Scanner (incl. package for Containers)	10.0.10.0 9.2.28.0 on IBM I	Yes Yes
BigFix Inventory VM Manager Tool	10.0.10.0	Yes
SAP Metric Data Collector	10.0.10.0	Yes
BigFix Inventory Image Scanner Script	10.0.10.0	Yes
BigFix Inventory Scanner Service	10.0.10.0	Yes
BigFix Inventory Cloud Adapter	10.0.10.0	Yes

Allowed upgrade path

It is recommended to upgrade BigFix Inventory frequently to benefit from new features and security fixes. Please plan at least one upgrade per year.

Starting from 10.0.10 release, to ensure smooth upgrade process, support will be provided for direct update from the last 8 server releases. The minimal version for direct upgrade path will be increased with every release.

The interim version will be available every 8th release to allow the upgrade from past releases at any time. The currently available release is 10.0.2. Release **10.0.10** is the next interim version to be available.

The minimal version recommended for direct upgrade path is **10.0.2**.

For versions up to 10.0.1 (inclusive), upgrade first to 10.0.2 using already available interim fixlet.

Version 10.0.2 is the oldest version supporting direct upgrade to 10.0.10. Update to the next version of BigFix Inventory will require to be at least at 10.0.3 release or upgrade to the 10.0.10 first.

Examples:

Q: I'm on version 10.0.5 and I would like to install 10.0.10 release.

A: Upgrade directly to the 10.0.10 release.

Q: I'm on version 9.2.17 and I would like to install 10.0.10 release.

A: Upgrade first to the 10.0.2 and then to the 10.0.10 release.

Q: I'm on version 10.0.2, but I plan to do the upgrade in January 2023 to the most recent release.

A: It would be version 10.0.11. Upgrade first to 10.0.10 and then to the 10.0.11, as 10.0.11 will support upgrade from version 10.0.3 or higher.

Q: I'm on version 9.2.13 and I would like to upgrade in April 2023 to the most recent release.

A: At that time, version 10.0.12 should be available. Upgrade first to the 10.0.2, then to the 10.0.10 and at the end to the 10.0.13.

Changes to supported systems

IBM DB2 10.5 is no longer supported as a database for BigFix Inventory Server in line with the supported database list for BigFix Platform. IBM withdrew support for DB2 10.5 in April 2020.

Added support for the following platforms and systems as managed devices:

- IBM Cloud LinuxONE VS
- NTT IaaS Powered by VMware
- IBM i 7.5
- Debian 11 x64
- Red Hat Enterprise Linux 9 by using the disconnected scanner
- Ubuntu 22.04 on x86 by using the disconnected scanner
- Azure VMware Solution with use of VM Manager Tool
- IBM z16

The following systems are withdrawn:

- VM Managers: Oracle VM Manager
- IBM i 7.1
- RHEL 5 on Power

For more information about supported systems, refer to:

https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/planinconf/c_spcr_Inventory.html

Internet Explorer is no longer supported

Internet Explorer web browser is no longer supported. Since it is an obsolete web browser and does not support the latest technologies, BigFix Inventory users might experience unexpected issues.

List of supported browsers: [Supported software for BigFix Inventory Server](#)

Extended upgrade time for environments with Mac OS

During the application upgrade, the whole catalog and discovery results coming from Mac OS machines will be removed. These removed data will be replaced by data from new software scan during Data Import.

Due to the removal process, application upgrade may take longer than usual when there is Mac software and machines in the environment. The time required for application upgrade can be estimated using the following query:

```
select count(*) / 20 from sam.software_components c  
join sam.publishers p on c.publisher_id = p.id  
where p.name = 'Unclassified Mac Software'
```

Changes to software discovery on Mac OS devices

This release includes improved automated catalog-less software discovery on Mac OS devices. Now Vendor information is populated for both Package Data and software inventory reports like Software Classification. Catalog definitions for Mac software include normalized vendor information for key vendors and one product definition compared to previous structure. Inventory reports cover detailed discovery of software classified as applications. Complete Package Data with category classification is available with the option to promote selected components to inventory as needed. With improved discovery, a higher number of Mac software offers usage information.

For details, refer to the documentation section:

https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/overview/MAC_OS_Discovery.html

IBM policy update for subcapacity reporting requirements for VPC license metric

Effective May 10, 2022, IBM requires all Virtual Processor Core (VPC) software licenses that use subcapacity licensing to deploy IBM License Metric Tool or any other tool approved by IBM like HCL BigFix Inventory. Manual capacity counting is no longer permitted. Container licensing terms are not included in this policy update.

Details of the change are available and documented on the main [IBM subcapacity licensing page](#).

Changes to End of Support definitions in catalog

The end of support information in catalog is automatically populated for Adobe, Oracle, Red Hat, and VMware software. No change to end of support information for IBM and Microsoft software. Upgrade BigFix Inventory server to version 10.0.10.0 to see the changes.

Deleted old software signatures to optimize standard catalog processing

This release includes improvement for catalog processing which is done by removing old software signatures from BigFix Inventory main catalog which results in better overall performance (mentioned in BigFix Inventory Release Notes for version 10.0.9.1). Deleted signatures refer to software and versions with a very low probability of being active or deployed.

Deleted signatures are still available as custom catalog content for customers who request specific titles and versions through the standard support channel.

For a list of deleted signatures, refer to:

https://software.bigfix.com/download/tema/catalog/BFI_signatures_deleted_10_0_10_0.pdf

Included Software Catalog

This release includes Software Catalog version 10.0.10.0 with capability to discover 330+ new software versions including but not limited to the following software publishers, such as Adobe, Autodesk, Cisco, Citrix, McAfee, Microsoft, Samsung, and VMWare.

New template signatures included in this release:

Template signature is a method of discovery where the version of a component is detected automatically, and a specific version is dynamically added to the catalog. Such template signatures include all component versions. They are used when the software is frequently updated, and the deployment method has not changed. One template covers 10+ software versions.

Publisher Name	Component Name	Platform
Red Hat	Red Hat Enterprise Linux	Linux
Apache Software Foundation	Apache HTTP Server	Windows
CrowdStrike Inc.	CrowdStrike Falcon Sensor	Linux
Siemens	Siemens PLM License Server	Windows & UNIX

For more information, refer to:

Catalog Release Notes:

https://software.bigfix.com/download/tema/catalog/BFI_catalog_release_notes.pdf

Catalog Change List:

https://software.bigfix.com/download/tema/catalog/changelist/BFI_catalog_changelist_2022_09.pdf

Modified content

The version number of the fixlet is 10.0.10.0.

The following fixlets were updated and should be run to install the latest versions of the specific components:

- Upgrade to the latest version of BigFix Inventory
- Upgrade to the interim version 10.0.2 of BigFix Inventory if version older than 10.0.2
- Software Catalog Update (if BigFix Inventory server not upgraded)
- Install or Upgrade Scanner
- Install or Upgrade Scanner in private mode on Windows
- Install SAP Metric Data Collector
- Update SAP Metric Data Collector
- Install VM Manager Tool
- Update VM Manager Tool
- Install Additional VM Manager Tool (OPTIONAL)
- Download the Disconnected Scanner Package for IBM I
- Download the Disconnected Scanner Package
- Download BigFix Inventory
- Download the BigFix Inventory Container Solution Packages

The following fixlets were updated and require that the actions created by their previous versions are stopped and then started by using the updated fixlets. Restarting actions is necessary to ensure that new features work properly:

- Initiate Software Scan
- Upload Software Scan Results – no updates, but recommended to be refreshed to match Initiate Software Scan
 - Run Capacity Scan and Upload Results

The following fixlets were updated or added:

- Clear Data Collected by Software Data Harvesting Tool
- Get Oracle Features
- Get Oracle Concurrent Sessions Number
- Identify Computers on Public Clouds

Enhancements and important changes

The following table lists enhancements and changes that are introduced in this update.

Abstract	Description	Available since
Mac OS discovery improvements	Added vendor information, introduced package categories to filter-out non-applications from Inventory, improved usage detection. For more information, refer to the documentation section: https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/overview/MAC_OS_Discovery.html	10.0.10.0
Normalized vendors for Mac OS discovery	Vendors from detected software are in line with the publishers from software catalog.	10.0.10.0
End of support information added for Adobe	Added end of support dates for 64 Adobe products.	10.0.10.0
End of Support information added for Oracle	Added end of support dates for 118 Oracle products.	10.0.10.0
End of Support information added for Red Hat	Added end of support dates for 15 Red Hat products.	10.0.10.0
End of Support information added for VMware	Added end of support dates for 41 VMware products.	10.0.10.0
Catalog clean-up – deletion of obsolete signatures	Deleted 14850 obsolete signatures from more than 11400 releases to improve the performance of Software Scan. For details, refer to https://software.bigfix.com/download/tema/catalog/BFI_signatures_deleted_10_0_10_0.pdf .	10.0.10.0
Removal of unused tags created for software components or instances	Added a setting to automatically remove tags that are not assigned to any software component or instance (during data import). For more information, refer to the 'delete_unused_tags_automatically' parameter at https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/admin/r_admin_server_parameters.html .	10.0.10.0
Computer First Seen column	Added the 'Computer First Seen' column to license metric utilization CSV reports which are part of the Audit Snapshot. The column shows the time when the computer was first detected by BigFix Inventory server.	10.0.10.0

Optimized data transferred for software usage monitoring	The amount of software usage data stored in BigFix database is optimized, resulting in less data to transfer and store.	10.0.10.0
New fixlet to clear collected harvester data	Added a 'Clear Data Collected by Software Data Harvesting Tool' fixlet which removes the data collected by Software Data Harvesting Tool from endpoints and BigFix server.	10.0.10.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.10.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.28 for IBM Virtualization Capacity reporting. The update covers IBM sub-capacity calculation, IBM Catalog, PVU and Scanner parity. For the status of IBM validated releases, see the following BFI FAQ Document .	10.0.10.0
Updated PVU table	Updated Processor Value Unit (PVU) table to version 06/07/2022.	10.0.10.0
Updated 'Apple Computer Corporation' publisher name to 'Apple'	Adjusted publisher name in software catalog.	10.0.10.0
Added discovery for Red Hat Enterprise Linux	Added a new CIT signature for Red Hat Enterprise Linux 9.	10.0.10.0
Added discovery for Team Quest Analyzer	Added a new CIT signature for Team Quest Analyzer version 11 on UNIX.	10.0.10.0
Added discovery for CrowdStrike Falcon Sensor on Linux platform	Added template signature for CrowdStrike Falcon Sensor on Linux platform. Now, Template signature exists for both Windows and Linux platforms. Existing regular signatures were deleted for Windows platform.	10.0.10.0

Discovery improvements for Adobe Captivate	Added discovery by File Name and Package Name. Changed definition source to HCL. Updated the component version for Adobe Captivate from 2015 to 2015.0 and 2017 to 2017.0.	10.0.10.0
Updated component version for Oracle Database Client 19	Updated component version for Oracle Database Client from 19 to 19.3.	10.0.10.0
Enhancement of Oracle Java Signatures	Enhanced discovery of existing Java signature for version 8.0 to cover non-standard installations.	10.0.10.0
Removed discovery of Adobe Download Manager	Removed the discovery of Adobe Download Manager.	10.0.10.0
Removed discovery of Adobe Acrobat Distiller	Removed discovery of Adobe Acrobat Distiller since it cannot be licensed, downloaded, and/or installed as a separate product.	10.0.10.0

Defect fixes

For the list of known defects please refer to [HCL Knowledge Base](#).

The following table lists BigFix Inventory **Server** APARs and other defects that are fixed in this update.

ID	Symptoms	Behavior after you install the update	Available since
KB0098499	Poor data import performance after enabling Group Aggregation in Computer Groups Management.	Data Import performance is improved.	10.0.10.0
KB0098905	Clusters API returns outdated data, also showing duplicated entries from old and new data source (VM Manager Tool).	Clusters API returns only current data.	10.0.10.0
KB0099323	Wrong database is reported in the log message when the connection error occurs.	Correct database is reported in the error message.	10.0.10.0
KB0099152	Mismatch of count in dashboard fields and number of endpoints in reports.	Dashboard fields show correct numbers of endpoints.	10.0.10.0
BI-13117	Software from macOS 11.5.1 or later does not appear on Software Classification panel. It is present only on Package Data panel.	Software from macOS is reported properly.	10.0.10.0
BI-12646	No information about used threads during import for the Capacity / VM Manager Data.	Added additional log entries to Data Import log with the actual number of threads used during Data Import of the Capacity / VM Manager Data Import.	10.0.10.0
BI-13397	Input error messages in the Edit Contract dialog are located on the right side of the inputs.	Input field error messages are located below the input fields.	10.0.10.0
BI-11848	Contract custom fields for decimal number input will now be restricted either to comma or period as a decimal separator, depending on the user's language settings.	Decimal separator is aligned with a chosen language.	10.0.10.0
BI-11803	Details of deleted signatures in Catalog Audit not available after a certain amount of time.	Link to details panel is not shown in case no details are available.	10.0.10.0
BI-12133	Grid row count value is incorrect in the Advanced Server Settings panel	The count value is correct.	10.0.10.0

	after filtering and sorting by the Name column.		
BI-11837	Custom fields in the Edit Contract dialog are missing length and range validation.	Validation is added.	10.0.10.0



The following table lists BigFix Inventory **Scanner** APARs and other defects that are fixed in this update.

ID	Symptoms	Behavior after you install the update	Available since
BI-12229	The same exclude directory ending with a slash sign included in both catalog (<code>wscansw</code>) and file system (<code>wscanfs</code>) scan configurations cause physical scan of the file system and cache recreation when <code>wscanfs</code> is run right after <code>wscansw</code> .	All exclude and include directories are converted to a 'canonical' form. The following 3 example paths effectively meaning the same: <ul style="list-style-type: none"> • <code>/abc</code> • <code>/abc/*</code> • <code>/abc/</code> are converted to one form: <code>/abc</code> . After the changes <code>md5 hash</code> of the scan configuration is the same and as a result, the physical scan of the file system is not performed by <code>wscanfs</code> . Instead, the data is read from the cache, which was created by <code>wscansw</code> before.	10.0.10.0

The following table lists BigFix Inventory **tools** APARs and other defects that are fixed in this update. It covers **VM Manager, SAP Data Collector, Image Scanner, Scanner Service, Cloud Adapter**. I

ID	Symptoms	Behavior after you install the update	Available since
KB0099902	Status 'Invalid Credentials' returning for VM Manager Hyper-V configurations using WinRM and authenticating with MD4 algorithm.	VM Manager Tool can authenticate with MD4 algorithm to Hyper-V hosts via WinRM.	10.0.10.0

The following table lists BigFix Inventory **Catalog** APARs and other defects that are fixed in this update.

ID	Symptoms	Behavior after you install the update	Available since
KB0100119	Autodesk Composite discovered incorrectly.	Autodesk Composite signatures are updated to report the correct version and avoid false discovery.	10.0.10.0
KB0099763	Apache HTTP Server lost discovery for 2.4 version.	Deleted existing signatures for Windows platform and added template signature for Apache HTTP Server for Windows platform. Now, template signature exists for both Windows and Linux platforms.  <i>Old discovery records will be closed, and new ones will be opened.</i>	10.0.10.0
KB0099831	Siemens PLM License Server 8.2 Version is incorrectly discovered.	Deleted existing signature for Siemens PLM License Server and replaced it with template signature for Windows and UNIX platforms for accurate discovery.  <i>Old discovery records will be closed, and new ones will be opened.</i>	10.0.10.0

The following table lists BigFix Inventory **Fixlets** APARs and other defects that are fixed in this update.

ID	Symptoms	Behavior after you install the update	Available since
No Fixlet fixes	-	-	-

The following table lists **user documentation** APARs and other defects that are fixed in this update.

ID	Symptoms	Behavior after the update	Available since
KB0073035	Db2 temp tablespace can grow in an uncontrolled way on DB2 when statement heap is exhausted.	Documentation contains an additional section under 'Tuning DB2 application database' describing how to change statement heap setting in case of issues with disk space used by queries. Documentation link: Configuring statement heap size	10.0.10.0
BI-13572	Internet Explorer is no longer supported as a browser by BigFix server.	References to Internet Browser has been removed from the document.	10.0.10.0

Security enhancements

- IBM Java Runtime updated to version 8.0.7.15
- IBM Java Semeru Runtime for BigFix Inventory tools upgraded to version 8.0.345.1
- IBM WebSphere Liberty updated to version 22.0.0.9 (CVE-2022-22476)
- Snakeyaml.jar updated to version 1.31 (CVE-2022-25857)
- Rails framework gem upgrade to 6.1.6.1 (CVE-2022-22577, CVE-2022-27777, CVE-2022-32209, CVE-2022-32224)
- Moment.js upgrade to 2.29.4 (CVE-2022-31129)

VM Manager Tool version and changes

The VM Manager Tool version that is used with this update is 10.0.10.0.

Scanner version and changes

The scanner version that is used with this update is 9.2.28.1000 for Windows and 9.2.28.0000 for other platforms. The disconnected scanner version that is used with this update is 10.0.10.0 and 9.2.28.0 for IBM I.

Documentation

For more information about how to install, maintain, and use this application, refer to BigFix Inventory user documentation:

https://help.hcltechsw.com/bigfix/10.0/inventory/welcome/BigFix_Inventory_welcome.html