

BigFix Inventory 10.0.14.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.14.0. 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	172	Yes
BigFix Inventory Software Catalog (main version)	10.0.14.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638812	Yes
BigFix Inventory Server	10.0.14.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.32.0	Yes
BigFix Inventory Server: ILMT Catalog	9.2.32.16	Yes
BigFix Inventory Scanner	9.2.29.0000 on HP-UX 9.2.32.1000 on Windows 9.2.32.0000 on other platforms	No Yes Yes
BigFix Inventory Disconnected Scanner (incl. package for Containers)	10.0.14.0 9.2.32.0 on IBM I	Yes Yes
BigFix Inventory VM Manager Tool	10.0.14.0	Yes
SAP Metric Data Collector	10.0.14.0	Yes
BigFix Inventory Image Scanner Script	10.0.14.0	Yes
BigFix Inventory Scanner Service	10.0.14.0	Yes
BigFix Inventory Cloud Adapter	10.0.14.0	Yes
Software Data Harvesting Tool for BigFix Inventory	1.1	No
BigFix Inventory Keystore Migration Tool	1.0	No

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 10.0.10.0 release, to ensure smooth upgrade process, support is provided for direct upgrade from the last 8 server releases. The minimal version for direct upgrade path is increased with every release.

Depending on the version number, one or more update steps are necessary. The minimal version for direct upgrade path is **10.0.6.0**. For versions up to 10.0.1.0 (inclusive), upgrade first to 10.0.2.0 then upgrade to 10.0.14.0 using *Upgrade to interim version* fixlets.

For specific examples, refer to [BigFix-Inventory-10.0.10.0-ReleaseNotes.pdf](#).

Note: Starting from July 2024, BigFix 9.5 will be out of support and with this change also BigFix Inventory 10.0.0.0 will be the lowest supported version.

For more information about BigFix 9.5 end of support, refer to [Announcing End of Support](#).

For more information about supported systems, refer to the [Detailed System requirements](#).

New feature announcements

Improved Scanner Catalog Distribution

BigFix Inventory 10.0.14.0 streamlines scanner catalog distribution. From BigFix Platform Server 10.0.8, it was required to manually push BigFix Inventory Server certificate. The whole process of Scanner Catalog Distribution has been revisited and simplified also to avoid the need of connectivity from BigFix Platform Server to BigFix Inventory Server.

Now, scanner catalog files are hosted on each DataSource BigFix Platform Server, instead of being hosted by BigFix Inventory Server.

From an end-user perspective - default, automatic catalog distribution is maintained. For users who wish to postpone catalog distribution, there is still the option to disable automatic catalog distribution.

There is a change in the method of manual distribution of scanner catalog. From 10.0.14 version it is achieved through the 'Repeat Catalog Distribution' button in Data Sources panel.

The action 'Catalog Download' created by BigFix Inventory to distribute scanner catalog is kept the same with the only adjustment of the URL of the catalog files.

Feature is available for all supported BigFix Platform Servers.

Scanner Catalog Distribution in Manual mode

Important Change!

This applies when **manual scanner catalog distribution process is used**.

Such process is used when one of the options

`enable_automatic_task_deployment` or

`enable_automatic_catalog_download` is set to false.

So far, the action 'Catalog Download (Version: ???????.?)' has been created by manually fetching `.bes` file from BFI UI and importing it in BigFix Console.

Now action is created per request from Data Sources report in BigFix Inventory and this is only option to create it.

There might be some cases when customers needs more granularity that is not supported in this release out of the box. An example would be the execution of action in defined time range or subset of computers. Below provided is a procedure to enable further tuning of action on BigFix Platform Console side. Out of the box, you can control the overriding Lock (catalog_download_task_skip_lock)_and staggering (catalog_download_task_stagger_interval).

One time part

This must be done after upgrading to version 10.0.14, only once. In the next upgrade procedure will be announced depending on provided implementation.

- 1) Make a backup copy of file

```
<BFI
```

```
INSTALL_DIR>\wlp\usr\servers\server1\resources\fixlets\catalog  
_download\catalog_download.bes
```

- 2) Edit the file

- 3) Change

```
<HasStartTime>>false</HasStartTime>
```

to

```
<HasStartTime>>true</HasStartTime>
```

```
<StartDateTimeLocalOffset>P14D</StartDateTimeLocalOffset>
```

With the above change, action will be created with start day in 14 days. You can make the number even higher. Every use of 'Repeat Catalog Distribution' on Data Sources panel stops previous action and issues new with start day calculated from current time.

Scanner Catalog Distribution part

Once you would like to distribute catalog manually, execute following steps:

- 1) Log in to BigFix Inventory
- 2) Go to Management -> Data Sources
- 3) Select the BigFix Platform Server to update the scanner catalog.
- 4) Click 'Repeat Catalog Distribution'
There will be created Catalog Download action in Master Action site with start day in 14 days.
- 5) Log in to BigFix Platform Console
- 6) Stop the 'Catalog Download' action.
- 7) Make a copy of 'Catalog Download' action and adjust parameters as needed.

Oracle Databases report includes Detailed Version information


The Oracle Databases report, similarly to the Software Classification report, now includes a Detailed Version column. Additionally, column Release is renamed to Version for consistency with other reports.

VM Manager report gets better view on source

There is an improved method to identify the computer and its DataSource for VM Manager connection by replacing only the ID with the Computer Name and DataSource Name.


Included Software Catalog

This release includes Software Catalog version 10.0.14.0 with capability to discover 20+ new software versions including but not limited to the software manufacturers, such as CrowdStrike, Microsoft and Red Hat.

 Changes made to the software component definition in catalog (e.g., modification of component name, version, or publisher) may cause creation of new definition of the component and removal of previous one. This leads to loss of Tagging, Classification and custom EOS information.

Additionally, when discovery is based on a signature evaluated on an endpoint, previous discovery results temporarily disappear until the next software scan and related data import. New catalog must be propagated to the endpoints before the scan execution.

Updated discovery mechanism for specific software with this behaviour includes specific notes (for details and impacted software title refer to the list of enhancements, ideas implemented and list of defects).

Note: This information relates only to entries enlisted with the icon, .

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_2023_09.pdf

Modified content

The version number of the fixlet is: 10.0.14.0

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
- Update VM Manager Tool to version
- Update SAP Metric Data Collector
- Install VM Manager Tool
- Install SAP Metric Data Collector
- Install Additional VM Manager Tool
- Download the Disconnected Scanner Package for IBM i
- Download the Disconnected Scanner Package
- Download the BigFix Inventory Container Solution Packages
- Download BigFix Inventory
- Install or Upgrade Scanner in private mode on Windows
- Install or Upgrade Scanner
- Software Catalog Update (*if BFI is not upgraded*)
- Download PVU table (*if BFI is not upgraded*)

The following fixlets were updated and require that 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:

- Force VM Manager Tool Scan Results Upload
- Initiate Software Scan
- Schedule VM Manager Tool Scan Results Upload
- Upload Software Scan Results – no updates, but recommended to be refreshed to match Initiate

The following fixlets were updated or added:

- List files in a directory
- Uninstall VM Manager Tool

Enhancements and important changes

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

Abstract Story	Description	Available since
Changes in supporting IBM programs	<p>Starting from application update 10.0.14.0, BigFix Inventory incorporates new definitions of how IBM supporting programs contribute to license usage of their parent products. These changes are in accordance with IBM license information documents.</p> <p>Please review the classification of discovered components and adjust it whenever needed to align with product license terms.</p> <p>For original IBM notice check following link: https://www.ibm.com/support/pages/node/6999623</p> <p>For a detailed list of changed bundling relations see the following document: Changed-IBM-bundlings.docx.</p> <p>Above list is also present in CSV format: Changed-IBM-bundlings.csv.</p>	10.0.14.0
[BFINV-I-264] Detailed component version in the Oracle Databases report	<i>Oracle Databases</i> report is enhanced with an additional column, 'Detailed Version' with patch-level information.	10.0.14.0
[BFINV-I-220] Added discovery for Ansible Tower	Added discovery for Red Hat Ansible Tower 3.8 version for LINUX platform.	10.0.14.0
Improved Endpoint Catalog Distribution	Endpoint Catalog is hosted on BigFix Platform Server and pushed there by BigFix Inventory Server. Automatic and manual propagation scenarios are handled from BigFix Inventory application.	10.0.14.0
New fixlet List files in a directory	Added 'List files in a directory' fixlet which lists all files on an endpoint from a provided path up to a specified depth. The list is retrievable through BigFix Inventory, eliminating the need for direct endpoint access.	10.0.14.0
[Container Solution] REST API for Cluster State view	Added REST API for Cluster State view. This view provides information about the current state of Kubernetes clusters.	10.0.14.0
Added discovery for Eclipse Temurin OpenJDK and JRE	Added discovery for Eclipse Temurin OpenJDK and JRE for versions 19 and 20. Discovery is added for WINDOWS and UNIX Platforms.	10.0.14.0

Added discovery for IBM Semeru Runtime JDK and JRE Open Edition	Added discovery for IBM Semeru Runtime JDK and JRE Open Edition for versions 19 & 20. Discovery is added for WINDOWS and UNIX Platforms.	10.0.14.0
Updated End of Support information for Microsoft software	The End of Support date is added for 101 Microsoft components and updated for 4 Microsoft components.	10.0.14.0
Changes in the <i>VM Managers</i> report panel	Added 2 new columns 'Computer Name of VM Manager tool' and 'Data Source of VM Manager Tool' in the <i>VM Managers</i> panel, and removed column 'Computer ID of VM Manager Tool'	10.0.14.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.14.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.32 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 .	10.0.14.0

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
KB0105020	Data in CSV from <i>Software Classification</i> panel is corrupted in Excel. The Excel spreadsheet has a limit in cell size, hence the problem in parsing on older versions.	There is a limit of 100 elements for multi-value cells. The Excel spreadsheet will present it without issues. Adjustable by changing the <i>csvReportRelationElementslimit</i> advanced server setting.	10.0.14.0
KB0104080	Data after removal is still stored in persistent tables, leading to data accumulation, increased disk space usage, and performance degradation.	Deleted records are gradually removed from persistent tables, resulting in better performance and lower disk space usage.	10.0.14.0
KB0104152	<i>Vulnerable Software Classification</i> report low performance on CVE.	Improved matching of software with more than four parts will not cause excessive CVE match numbers.	10.0.14.0
KB0106764	Calculation of metrics with Microsoft physical cores considers only hosts with a unique configuration of cores and processors.	Calculation of metrics with Microsoft physical cores considers unique hosts and ignores their hardware configuration. Metrics:	10.0.14.0

		<ul style="list-style-type: none"> • Microsoft Windows Server Physical Processor Cores • Microsoft Windows Server Standard Physical Processor Cores • Microsoft SQL Server Physical Processor Cores 	
KB0107491	Upload of image scan results sent from BigFix Inventory Scanner Service to BigFix Inventory server fails, when the application is installed on Windows.	Image scan results are uploaded correctly to BigFix Inventory server.	10.0.14.0
KB0107008	An error occurs during <i>Data Import</i> , when creating catalog hierarchy for Mac packages. Error contains: Cannot insert duplicate key in object 'sam.catalog_dimension_scd'.	The issue is fixed and hierarchy for Mac packages is successfully created.	10.0.14.0
KB0107150	Datasource connection error for MSSQL BigFix database with enabled encryption, in a failover scenario when <i>.slmtag</i> file could not be downloaded via BigFix REST API.	Datasource connection is successful.	10.0.14.0
KB0106348	In rare cases, BigFix Inventory is not picking up changes in automatic Datasource group memberships.	Added <code>resynchronize_datasource_computer_groups_once</code> option in the Advanced Server Settings to resynchronize all Datasource computer groups.	10.0.14.0
KB0106993	<i>Hardware Inventory</i> report and <i>Capacity Scan Health</i> widget in the old dashboard show higher computer count than expected.	The issue is fixed.	10.0.14.0
KB0105279	Error when installing BigFix Inventory Server caused by problem with loading the images for installer.	The issue is fixed.	10.0.14.0
BI-18087	The documentation does not clearly state that <i>Part Numbers</i> function is limited to IBM products and non-IBM products with custom part numbers.	The documentation and the description in the <i>Part Number Upload</i> panel are updated.	10.0.14.0

BI-19051	<i>Catalog Audit</i> panel does not render properly on Firefox browser version 78 and lower.	<i>Catalog Audit</i> panel renders properly on all supported versions of Firefox browser.	10.0.14.0
BI-19001	In <i>Saved Reports</i> , when user choose predefined report, it was not possible to select another report without refreshing the site.	It is now possible to select another report without refreshing the site in <i>Saved Reports</i> .	10.0.14.0
BI-19080	Column name <i>Release</i> in <i>Oracle Databases</i> report is inconsistent with other reports.	The column name is changed to <i>Version</i> .	10.0.14.0
BI-15054	When metric has been removed from contract definition in the <i>All Contracts</i> panel, incorrect value may be displayed in <i>Current Measured Value</i> column while <i>Recalculation</i> button remains inactive.	When metric is removed from contract definition in the <i>All Contracts</i> panel, not applicable <n/a> is displayed in <i>Current Measured Value</i> column. Recalculation is not needed in such a case.	10.0.14.0
BI-17988	<i>Endpoint Scanner Catalog version</i> is not refreshed on the UI after a change in custom catalog.	A proper version of <i>Endpoint Scanner Catalog</i> is displayed on the UI after changing custom catalog.	10.0.14.0

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
KB0107134	Wrong identification of Oracle Java software component.	Oracle Java 7 Signatures were improved for accurate discovery.	10.0.14.0
KB0106707	CrowdStrike Falcon Sensor template signature update on Windows.	CrowdStrike Falcon Sensor signatures for Windows were updated to improve discovery.  <i>Old discovery records will be closed, and new records will be opened.</i>	10.0.14.0

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.

ID	Symptoms	Behavior after you install the update	Available since
BI-16533	VM Manager Tool uses HyperV connection type for VMware vCenter connection when credentials are invalid and <code>vmm_fix_parameters_enabled</code> parameter is set to <code>true</code> .	VM Manager Tool does not use HyperV connection type for VMware vCenter connection.	10.0.14.0

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-17916	SCSI mapping is done only for disks labeled <code>sda</code> , <code>sdb</code> , <code>sdc</code> , <code>sdd</code> .	The scanner recognizes all disks in the system and does the mapping.	10.0.14.0

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
KB0106854	Scanner Windows Package Scan output xml contains unescaped '&' characters, leading to incomplete Windows Package Data import for affected computers.	Special '&' characters in Scanner Windows Package Data output xml are escaped.	10.0.14.0

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

ID	Symptoms	Behavior after the install the update	Available since
KB0106276	Inaccurate Privileges for Truncating Tables in BigFix Inventory Database.	Corrected the permission description for SQL Server database user for BigFix Inventory database. Doc link: Installation accounts	10.0.14.0
KB0106004	Connections encryption documentation is not clear.	Added information about the fixlet available and the limitations. Doc links: <ul style="list-style-type: none"> • Updating the database password • Enabling database connection encryption for DB2 for BigFix Inventory • Enabling database connection encryption for MS SQL for BigFix Inventory • Enabling the database connection encryption for Data Source 	10.0.14.0
BI-17933	Documentation missing info about required Subject Alt Name (SAN) in custom certificates.	Added information about subject alternative name (SAN) in the document. Doc link: Creating private keys and certificates	10.0.14.0
KB0106700	No documentation on datasource groups visibility limitations in BFI.	Updated the document with relevant information. Doc links: <ul style="list-style-type: none"> • Backing up and restoring the VM Manager tool • Setting up computer groups • Migrating BigFix Inventory • Side-by-Side migration 	10.0.14.0

Security enhancements

- Rails gem upgrade to 6.1.7.6 (CVE-2023-28362, CVE-2023-38037)
- WebSphere Liberty updated to version 23.0.0.8
- IBM Java Runtime Environment for BFI Server and all tools updated to version 8.0.8.10 (CVE-2023-22045, CVE-2023-22049, CVE-2023-21930, CVE-2023-21967, CVE-2023-21954, CVE-2023-21968, CVE-2023-21937, CVE-2023-21938)
- Spring Boot updated to version 2.7.15

VM Manager Tool version and changes

The VM Manager Tool version that is used with this update is 10.0.14.0.

Scanner version and changes

The scanner version that is used with this update is 9.2.32.1000 for Windows and 9.2.32.0000 for other platforms. The disconnected scanner version that is used with this update is 10.0.14.0 and 9.2.32.0 for IBM I. `qclib` library was upgraded to the latest 2.4.0 (2023-04-08) version to ensure correct hardware discovery. For 9.2.32.1000 mapping SCSIIDisc was fixed to iterate through all disks present in the system.

Changes to supported systems

Added support for the following platforms and systems:

- Oracle Cloud VMware Solution - to collect data, configure connection to the vCenter Server that is specific to your instance of the Oracle Cloud VMware Solution
- Red Hat Enterprise Linux 9 on IBM Power by using the BigFix client.

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