

BigFix Inventory 10.0.13.0 Release Notes

This document provides information about BigFix Inventory application update 10.0.13.0.

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	165	Yes
BigFix Inventory Software Catalog (main version)	10.0.13.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638777	Yes
BigFix Inventory Server	10.0.13.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.31.0	Yes
BigFix Inventory Server: ILMT Catalog	9.2.31.2	Yes
BigFix Inventory Scanner	9.2.29.0000 on HP-UX 9.2.31.1000 on Windows 9.2.31.0000 on other platforms	No Yes Yes
BigFix Inventory Disconnected Scanner (incl. package for Containers)	10.0.13.0 9.2.31.0 on IBM I	Yes Yes
BigFix Inventory VM Manager Tool	10.0.13.0	Yes
SAP Metric Data Collector	10.0.13.0	Yes
BigFix Inventory Image Scanner Script	10.0.13.0	Yes
BigFix Inventory Scanner Service	10.0.13.0	Yes
BigFix Inventory Cloud Adapter	10.0.13.0	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 **10.0.5.0**. For versions up to 10.0.1.0 (inclusive), upgrade first to 10.0.2.0 then upgrade to 10.0.10.0 using *Upgrade to interim version* fixlets.

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

Support for Microsoft SQL Server 2022

Starting from BigFix Inventory v10.0.13.0, Microsoft SQL Server 2022 is supported by BigFix Inventory server on Windows system.

Support for Windows Server 2022

Starting from BigFix Inventory v10.0.13.0, Windows Server 2022 is supported by BigFix Inventory server.

Enhanced Package Data reporting

This release responds to the top voted idea [[BFINV-I-193](#)] and it offers information about software installation dates for **Linux** endpoints. The installation date information is based on exact system data collected from endpoints in comparison to Computer: First Seen and Software Classification: Discovery Start that are related to BigFix Inventory data import time.

Package Data report is extended with installation date [[BFINV-I-193](#)] and installation path [[BFINV-I-43](#)] for **Linux** (Rpm-type and Deb-type) entries. The actual installation date helps in ensuring license compliance, while package installation path improves software discovery verification.

The new information is based on the system registry data as provided by the package vendor, and installation path is provided for applications.

This feature is complementary to the same extension of package reporting introduced for Windows endpoints in [BigFix Inventory 10.0.12.0](#).

Note: This feature requires both upgrading BigFix Inventory server and restarting Initiate Software Scan fixlet (or upgrading Windows disconnected scanners). To ensure that new data is processed in the shortest time it is recommended to **upgrade the server first and then restart the fixlet**.

Advanced Security

BigFix Inventory 10.0.13.0 brings support for TLS 1.3 protocol for incoming HTTPS communication. By default, it supports both TLS 1.2 and TLS 1.3 as allowed protocols. The usage of TLS 1.3 protocol is available for configuration with FIPS disabled.

It is now possible to **configure SSL encryption for connections to BigFix databases**. Database server certificates will be validated and must be stored in a local truststore. Multiple Data Sources with different certificates are allowed.

Included Software Catalog

This release includes Software Catalog version 10.0.13.0 with capability to discover 400+ new software versions including but not limited to the following software manufacturers: AutoDesk, Cisco, Citrix, Dell, Microsoft, McAfee, NVIDIA, Oracle, Intel and VMware.



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 behavior includes specific notes (for details refer to the list of enhancements 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_06.pdf

Modified content

The version number of the fixlet is: 10.0.13.0

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:

- Initiate Software Scan on Shared Disks
- Initiate Software Scan
- Upload Software Scan Results – no updates, but recommended to be refreshed to match Initiate Software Scan

The following fixlets were updated or added:

- Get Oracle Features
- Get Oracle Concurrent Sessions Number
- Collect Logs from Endpoints
- Test CIT Signature
- Uninstall Scanner

Enhancements and important changes

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

Abstract Story	Description	Available Since
[Advanced security] Support for TLS 1.3 protocol for BigFix Inventory	Added support for TLS 1.3 protocol for HTTPS communications. By default, both TLS 1.2 and TLS 1.3 are allowed. Enforcing TLS 1.3 is not recommended and may lead to communication problems with BigFix Platform. Note: FIPS support is limited to TLS version 1.2	10.0.13.0
[Advanced security] Possibility to encrypt connection to BigFix database	Added the possibility for BigFix Inventory users to configure SSL encrypted connection for BigFix DB2 and MSSQL database.	10.0.13.0
Package installation path and date for software on Linux endpoints [Ideas BFINV-I-43 and BFINV-I-193]	Package installation path and installation date from Linux endpoints are collected from RPM and DEB package registries during package scan. New data is displayed in <i>Package Data</i> and <i>Software Classification – Details</i> panels. Package installation path and date are also available via REST API: <code>/api/sam/raw_unix_package_facts</code> while the package installation path for Linux packages is added to <code>/api/sam/unified/current/software</code> . Moreover, the software instance installation path is obtained from matched Unix package data in case the other discovery methods do not provide it.	10.0.13.0
[Serviceability] Reapply Catalog Download action when catalog is missing	There has been enabled reapplication of Catalog Download action in case of relevance with re-check once per day. This helps restore catalog in case it has been removed due to e.g. Scanner reinstallation.	10.0.13.0
Added End of Support information for Micro Focus software	The End of Support dates are newly added for 79 Micro Focus software components.	10.0.13.0

Updated End of Support information for Oracle software	The End of Support dates are added for 22 Oracle software components.	10.0.13.0
Updated End of Support information for Adobe software	The End of Support dates are added for 111 Adobe software components.	10.0.13.0
Updated End of Support information for IBM software	Updated End of support information to the latest available version (in line with ILMT components v 9.2.31.2).	10.0.13.0
Added Discovery for Oracle WebCenter Portal	Added discovery for Oracle WebCenter Portal version 12.2. The discovery is added of LINUX OS.	10.0.13.0
Updated PVU table	Updated Processor Value Unit (PVU) table to version 02/06/2023	10.0.13.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.12.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.30 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 .	10.0.13.0

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
KB0101955	Data import fails because of the locked table in the database and no information in the log is provided about what table is locked and who is locking it	After the fix, when import fails because of the locked table in the database, in the log there will be provided all details about active locks on that table	10.0.13.0
KB0101118	The <code>sam/vmmanagers</code> REST API does not return the same information about existing VM Managers as the VM Managers panel	After the fix, the <code>sam/vmmanagers</code> REST API uses the same filtering criteria as the VM Managers panel	10.0.13.0


KB0102550	Scanner's non-SUA exploiters can potentially cause problems with scanner deinstallation	After the fix, the <i>Uninstall Scanner</i> fixlet removes all exploiters	10.0.13.0
KB0103906	Checkboxes that are in the <i>User Account</i> panel in the <i>Management</i> section have an incorrect clickable area	The issue is fixed.	10.0.13.0
BI-15884	When BigFix Inventory is reinstalled, there is an error in <code>tema.log</code> related to the existence of Full Database Index Reorganization job	If the database index reorganization job already exists, a warning is written to <code>tema.log</code> . The documentation is updated with information about removal of the job when uninstalling BigFix Inventory.	10.0.13.0
BI-15399	When submitting <i>Configure View</i> with an empty drop-down field (for example <i>metric</i>), the field shows an error. Once the drop-down values are chosen, the field is still returning the error, even though the field is submittable.	After the fix, when a drop-down value is chosen, the error will disappear.	10.0.13.0
BI-15401	Long values from the drop-down list are not fully visible when filtering by <i>in set</i> in <i>Configure View</i>	After the fix, long values are fully visible	10.0.13.0
BI-12786	After clicking a link in the <i>Saved Reports</i> or <i>VM Managers</i> panel, the <i>Edit</i> panel is loaded.	The issue is fixed.	10.0.13.0
BI-11849	Number Input brackets accept '-' in Chrome and Edge but not in Firefox.	After the library upgrade, the component works as expected.	10.0.13.0
IJ45254	Computers that run on Solaris have the No Scan Data status, because LPAR capacity that is smaller than 0.01 processor core is not properly handled.	After the fix, data for Solaris computers is displayed properly as 0.01 for capacity values smaller than 0.01 but greater than 0.	10.0.13.0
IJ45003	Statuses of VM managers are not updated in the user interface and the following SQL error can be found in the import logs at the step of importing data from the VM Manager Tool: <code>Cannot insert</code>	After the fix, VM manager statuses are updated properly.	10.0.13.0

	the value NULL into column 'login', table 'temadb.sam.vm_managers_persistent'; column does not allow nulls. UPDATE fails.		
BI-17261	/api/sam/raw_package_f acts API endpoint in a new BFI 10.0.12 installation always returns value 0 of is_suppressed property for windows packages with path or install date present.	The issue is fixed.	10.0.13.0
KB0103961	Heavy load on AD/Domain Controller may occur due to relevance clause evaluation of <i>Clear Corrupted Scanner Installation</i> fixlet.	Fixlet <i>Clear Corrupted Scanner Installation</i> is removed from the BigFix Inventory v10 fixlet site.	10.0.13.0
BI-16742	The message displayed in the dashboard when bundling information is not in catalog is confusing.	The message is changed to clarify that it is required to upgrade BigFix Inventory server in order to update IBM catalog.	10.0.13.0
KB0104583	Slow step <i>ProductInventoryBO.processPath Updates</i> of InventoryBuilder.	Optimized the query by changing the involved columns to the ones already available in existing indexes.	10.0.13.0
KB0103984	Error appearing when removing or updating signature in <i>Catalog Customization</i> panel.	The issue is fixed.	10.0.13.0
KB0103984	Signature tree disappears when Searching in <i>Catalog Customization</i> panel.	The search issue will be fixed after data import following the upgrade of BigFix Inventory.	10.0.13.0
KB0104082	Upgrade might fail due to migration of database tables.	The issue is fixed.	10.0.13.0
KB0104577	Application startup is taking too long.	The issue is fixed via additional indexes.	10.0.13.0
KB0104759	Missing documentation for upgrade fixlet failure.	The documentation is updated with instructions on how to proceed in case of upgrade failure.	10.0.13.0
KB0104252	BigFix Inventory does not work on Korean Windows.	The issue is fixed.	10.0.13.0
KB0104163	Usage reset to zero in multiple scenarios.	The issue is fixed.	10.0.13.0
BI-17215	<i>Export to CSV/PDF</i> functionality does not work in the <i>Cluster State Computer's</i> report.	The issue is fixed.	10.0.13.0

KB0104524	<i>Partition Virtual Processors</i> column in the <i>Hardware Inventory</i> report shows values for Linux.	The column shows values only for AIX.	10.0.13.0
BI-17271	BigFix Inventory server does not start after upgrade when FIPS is enabled, because FIPS settings in <code>java.security</code> file are lost.	BigFix Inventory server starts up normally and FIPS settings are preserved.	10.0.13.0
KB0104645	BigFix Inventory pages and images not loading in a browser.	IBM Java Runtime Environment was upgraded to fix an issue related to IBMJCEPLUS security provider, which was causing the browser to fail loading BFI content.	10.0.13.0
KB0105315	Self-signed server certificate is changed after page refresh. Applies to the <i>Management -> Server Settings</i> panel.	The certificate is generated only once.	10.0.13.0
BI-15862	Incorrect capacity scan import statistics after failure.	The import log file contains corrected information about failures related to processing capacity scans.	10.0.13.0
KB0105312	Software discovery based on package data and template signatures is interrupted when a package version contains unsupported value. Remaining package data is skipped causing incomplete software discovery.	Package data with incorrect version does not prevent other package data from software discovery evaluation.	10.0.13.0

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
KB0104081	Incorrect version for SAS/IML signatures .	SAS/IML signatures are updated for windows and Unix platform to detect the right version.	10.0.13.0
KB0105245	Apache HTTP Server signature on windows causes false discovery.	Apache HTTP Server template signature for windows is deleted to avoid false discoveries with other software.	10.0.13.0
KB0105104	Git template signature does not work for new versions.	Git Template Signature has been modified to discover both old and new versions.	10.0.13.0
KB0105319	Missing default product bundling for a few Microsoft components.	Components are matched with products now. On Software Classification panel, the components are assigned to products.	10.0.13.0

		<p>Fix is implemented for the following components:</p> <ul style="list-style-type: none"> - Microsoft SQL Server 2008 R2 Native Client - Microsoft SQL Server 2012 Native Client - Microsoft SQL Server 2014 ADOMD.NET - Microsoft SQL Server 2014 Management Objects - Microsoft SQL Server 2016 LocalDB <p> <i>Old discovery records will be closed, and new records will be opened.</i></p>	
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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-12108	The CIT scanner produces too many laconic logs from CIT plugins.	Adjusted log levels reduced the number of CIT logs. Also improved description of log entries.	10.0.13.0

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
KB0104525	VM Manager Tool scan crashing when encounters computer with duplicated UUID and "%2f" in its hostname.	VM Manager Tool scan will no longer crash when "%2f" string is encountered in hostname.	10.0.13.0
KB0101056	VMMAN pool_limit causes "Invalid Credentials - attempting" status for many Hyper-V connections.	The VMMAN tool will no longer lock connections for many Hyper-V connections defined.	10.0.13.0

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
KB0103653	Logcollector archives accumulate, when the computer id changes leading to increased disk usage and possible upload issues due to <i>MaxArchiveSize</i> being exceeded.	All Log Collectors are deleted before creating new one.	10.0.13.0
KB0104228	<i>Get Oracle Features</i> fixlet is failing on AIX system with exit code 30.	The issue is fixed.	10.0.13.0
BI-16539	<i>Test CIT Signature</i> fixlet is failing with Relevance substitution failed message.	The issue is fixed.	10.0.13.0

Security enhancements

- rails gem upgrade to 6.1.7.3 (CVE-2023-23913, CVE-2023-28120)
- WebSphere Liberty updated to version 23.0.0.4 (CVE-2023-24998)
- IBM Java Runtime Environment for BFI Server updated to version 8.0.8.0
- MSSQL JDBC Driver updated to version 12.3
- Spring Boot updated to version 2.7.11
- Spring Framework updated to version 5.3.27

VM Manager Tool version and changes

The VM Manager Tool version that is used with this update is 10.0.13.0.

Scanner version and changes

The scanner version that is used with this update is 9.2.31.1000 for Windows and 9.2.31.0000 for other platforms. The disconnected scanner version that is used with this update is 10.0.13.0 and 9.2.31.0 for IBM I.

Changes to supported systems

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

- VMware vSphere 8 - vSphere Hypervisor (ESXi) 8 stand-alone and managed by vSphere vCenter Server 8
- Azure Stack HCI by configuring direct connections to each hypervisor
- Oracle Enterprise Linux 9 by using the BigFix client
- Red Hat Enterprise Linux 9 on IBM Power by using disconnected scanner

- Red Hat Enterprise Linux 9 on zSystems by using disconnected scanner

Added support for the following platforms and systems supported by BigFix Inventory Server:

- Microsoft SQL Server 2022
- Microsoft Windows Server 2022

Existing support will be removed for:

- Microsoft SQL Server 2012 starting from January 2024. For more information about Microsoft withdrawal, see [Software lifecycle](#).

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

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