

BigFix Inventory 10.0.4.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.4.0. 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	140	Yes
BigFix Inventory Software Catalog (main version)	10.0.4.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638578	Yes
BigFix Inventory Server	10.0.4.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.22	Yes
BigFix Inventory Server: ILMT Catalog	9.2.22	Yes
BigFix Inventory Scanner	9.2.22.1000 (Windows) 9.2.22.0000 (other platforms)	Yes Yes
BigFix Inventory Disconnected Scanner	10.0.4.0 9.2.22.0 (for IBM I)	Yes
BigFix Inventory VM Manager Tool	10.0.4.0	Yes
SAP Metric Data Collector	10.0.4.0	Yes

Included Software Catalog

- This release includes Software Catalog version 10.0.4.0 with capability to discover more than 350 software versions.

For more information, please 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_2021_03.pdf

Modified content

The version number of the fixlet is: 10.0.4.0

The following fixlets were updated and should be run to install 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 9.2.14
- Software Catalog Update (if BFI not upgraded)
- Install or Upgrade Scanner
- Install or Upgrade Scanner in private mode on Windows
- Update SAP Metric Data Collector
- Update VM Manager Tool
- Download the Disconnected Scanner Package for IBM I
- Download the Disconnected Scanner Package

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:

- Run Capacity Scan and Upload Results (10.0.4.0)
- Initiate Software Scan (10.0.4.0)
- Upload Software Scan Results (10.0.4.0)

The following fixlets were updated but it does not require any additional action:

- Uninstall Scanner (10.0.4.0)
- Download BigFix Inventory (10.0.4.0)
- Identify Computers on Public Clouds (10.0.4.0)
- Install VM Manager Tool (10.0.4.0)
- Install Additional VM Manager Tool (OPTIONAL) (10.0.4.0)
- Download BigFix Inventory (10.0.4.0)
- Install SAP Metric Data Collector (10.0.4.0)
- Change Scanner Cache Folder (10.0.4.0)
- Collect Specific Registry from Windows Endpoints (10.0.4.0)
- Test CIT signature (10.0.4.0) (use only with support of BFI support)
- Download PVU table (10.0.4.0)

Enhancements and important changes

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

Abstract	Description	Available since
Improved performance of File Facts import step	File Facts import performance has been improved by up to 60% on HCL test environment. Improvement was measured on HCL test environment and may vary depending on customer hardware and number of file facts per computer.	10.0.4.0
Marking status of processed File Facts files	All File Fact files that has been recently imported are marked as read in the sam.last_imported_scan table. Depending on the File Fact file state, one can distinguish between importing correct files (status 0), files with parse errors (status 1), too large files (status 2), files encountering unpacking issues (status 3), and invalid file names (status 4). The status of the last File Fact file import can be changed by importing a proper File Facts file which will set its status to 0. All above situations are reflected in the import log, which provides a meaningful message depending on the situation.	10.0.4.0
Reporting progress of File Fact files and file paths processing	Percentage progress and estimated remaining time of import of file fact files and file paths is written to the import log.	10.0.4.0
Component detailed version based on package version	Installed software components that are detected based on the presence of specific packages are reported with a detailed version which is the same as the package version. The information is shown in the Component Detailed Version column on the Software Classification report and in component_detailed_version column in REST API.	10.0.4.0
Improvements in reporting information about detailed version and file size	The rules, used to determine which detailed version should be shown in case of multiple discovery facts, have been adjusted. For details, see the documentation Component Detailed Version. On the Details page of Software Classification panel, complete set with detailed version information for detected software facts is presented, and file size information for matched file signatures is provided.	10.0.4.0
Download PVU table fixlet	Added the capability to expose to the PVU table which we get from IBM. It can be downloaded using 'Download PVU table' fixlet.	10.0.4.0

	Please note, the server upgrade is required to be sub-capacity compliant.	
Advanced Server Settings new parameter	Added "show_hidden_values" parameter in Advanced Server Settings. Setting this parameter to true will show several parameters used by support when troubleshooting. In previous releases these parameters were set using database queries	10.0.4.0
Search software catalog by component name on the new dashboard	Catalog search option moved to new dashboard. The dashboard is extended with the functionality of catalog search by component name in quick search. Catalog search widget is removed from the previous dashboard.	10.0.4.0
External License API for integration with other licensing tools	You can also use REST APIs /api/sam/v2/license_usage to view licensing information about software that is needed to integrate with other licensing tools in multicluster environments. The REST API is used by License Sender tool to integrate multicluster licensing data in IBM License Service Reporter.	10.0.4.0
Keeping custom scanner configuration while moving to private CIT	The following custom scanner settings will be preserved while moving from global CIT scanner to the private mode: <ul style="list-style-type: none"> - Scanner trace log level - maximum size of trace files - maximum number of trace files 	10.0.4.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.4.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.22 for IBM Virtualization Capacity reporting. For status of IBM validated releases see BFI HCL FAQ	10.0.4.0
Installation Paths data update part of Inventory Builder import performance improved.	Installation Paths data update part of Inventory Builder import performance has been improved by around 50%, important especially for upgrades from version 10.0.1 and below. Improvement was measured on HCL test environment and may vary depending on customer hardware.	10.0.4.0
Changed predefined reports filtering	Changed the vendor reports filters criteria from 'Publisher Name equal to' to 'Publisher in set'. The change has been applied to all vendor specific reports that base on Software Classification report.	10.0.4.0
Improved actions performance on software classification report	Improved performance of the following actions on Software Classification report: confirm, share, exclude.	10.0.4.0
Ability to configure SSL connection to database	User can update the configuration files to enable database encryption on configuration files (server.xml and database.yml). See documentation, Configuring database connection encryption .	10.0.4.0

Removal of "Caused Detection" column and "enable_caused_detection" setting	'Recognized' column is now the primary information. 'Caused Detection' column has been completely removed from "Package Data" and "Scanned File Data" reports, as well as related 'enable_caused_detection' advanced server setting. Saved reports which use this column will not be automatically migrated and they should be re-created manually.	10.0.4.0
Automatic MSSQL database maintenance	New MSSQL job is created for reindexing and reorganization of the inventory DB tables. Job is setup to run daily.	10.0.4.0
CSV file – prevention for formula injection	BFI inserts an apostrophe (') at the beginning of the cell containing characters, such as equals signs (=), plus signs (+), minus signs (-), and "At" symbol (@). Adding apostrophe (') tells excel that the cell doesn't contain formula.	10.0.4.0
Improved validation of part numbers CSV file on Part Number Upload management panel	Added validation of the values in the "Part number" and "Order type" CSV columns to make sure all users' inputs are filtered so only expected characters are allowed.	10.0.4.0
Performance logs are enabled by default	Performance logs will now be enabled by default. They can be disabled and re-enabled at any time. For more information see documentation.	10.0.4.0
Added new predefined custom rules.	Three new predefined custom rules added to suppress doubled discovery from SWID tags and ignore lower quality discovery.	10.0.4.0
Updated JDBC driver for DB2	DB2 JDBC driver (type 4) has been updated to version 11.5.5 (4.28.11)	10.0.4.0
EOS data refresh for Microsoft software		10.0.4.0
Ideas		
New API for Metrics BFINV-I-155	Added capability to provide APIs for users to Add/Create/Update/Delete metrics. For more information on usage of APIs, please refer to REST API for managing license metrics .	10.0.4.0

Defect fixes

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

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

ID	Symptoms	Behavior after you install the update	Available since
Server updates			
KB0085297	CIT Upgrade fails if alternate location is used and BesClient is uninstalled/reinstalled.	Install or Upgrade Scanner fixlet can successfully install the scanner.	10.0.4.0
KB0085082	Data Import: Getting the scan results fails when file has been changed since data import and is requested to fetch during import.	For the File Facts scan results operation is repeated in the new implementation.	10.0.4.0
KB0075700	BigFix Inventory Data Imports suddenly increase in time due to File Facts ETL step	The improved implementation of File Facts import significantly improves the duration of File Fact import and additional protection mechanism against overload.	10.0.4.0
KB0086966	<p>Some AIX systems might have a 'sed' command that is not handling the requests to put line endings. Instead of a new line, 'n' character is placed by dropping '\' from '\n', which is expected to be interpreted as new line.</p> <p>As a result, it creates invalid output and it's neither shown in the BigFix Console nor imported to the BigFix Inventory.</p>	The problem does not occur.	10.0.4.0
KB0086020	Improved actions performance on file scanned data report	Removed some excessive indexes and added new indexes related to Scanned File Data.	10.0.4.0
KB0086349	Add support for ISO SWID Tag in 2009 specification: NetBackup, Splunk, McAfee and more.	BFI supports software identification through ISOfiles which are compliant to 2009 specification.	10.0.4.0
KB0087604	Saved Reports do not Automatically Email when SSO debug logs are enabled.	Saved Reports e-mail notification works properly.	10.0.4.0
KB0085584	File Facts scan with issue in payload - Endpoint side prevention.	[Windows only] 'Software Scan status' analysis status code 5 is set	10.0.4.0

		when software Scan returns empty result for File System scan	
KB0088612	Data Import hangs on DB2 11.5	There is confirmed DB2 bug causing that sporadically query might hang. BFI restart resolves the issue. It is recommended to apply IT35984 as soon as would be released by IBM DB2.	10.0.4.0
KB0085086	Data Import: Using the resync option expose issue with getting the file is no longer there - file is tried to be fetch every import	Files with not matching computer id are discarded and not preserved in database avoiding picking them up again during re-synchronization.	10.0.4.0
BI-3899	Empty rows are displayed when filtering by 'Recognized', 'Caused Detection' columns on Package Data and Scanned File Data reports	For 'Recognized' column, the problem has been fixed. 'Caused Detection' column has been completely removed, as well as related 'enable_caused_detection' setting. Saved reports which use this column should be re-created manually.	10.0.4.0
BI-4654	Warning dialog shows up when stopping application using Windows service.	Stopping and restarting application using Windows service does not trigger any warning popups.	10.0.4.0
BI-4513	For software_instances v2 API, suppression does not work when JSON is submitted with NULL product fields. Also, confirmation is not always migrated.	Suppression works with NULL product fields; confirmation is always migrated.	10.0.4.0
BI-3438	Re-sync option does not work for DB2 if compatibility vector is not set to MYS.	Re-sync option works properly.	10.0.4.0
IJ29172	Software Scan Status Analyses fails when BESClient.exe and _BESData folder are on different drives.	The issue does not occur.	10.0.4.0
IJ29179	Part of the hosts from the same cluster may not be processed even though the scan results are correct (mostly HYPER-V)	The issue does not occur.	10.0.4.0
198123	Audit trail for setting and clearing entitlements does not provide information about the computer	The issue does not occur.	10.0.4.0

	group for which the operation was performed		
198493	After upgrade on Windows tema.log shows database errors [tema]:[ERROR] Java::ComMicrosoftSqlServerJdbc::SQLException: Cannot drop the trigger 'sam.software_facts_persistent_trigger_uuid_discoverable_guid', because it does not exist, or you do not have permission.: drop trigger sam.software_facts_persistent_trigger_uuid_discoverable_guid	The issue does not occur.	10.0.4.0
Scanner updates			
	Memory allocation statistics for 'Out of memory' exceptions	When performing file system or software scanning, the memory requirements for the scanner may reach defined limits. To verify these limits, additional logs with memory allocation statistics have been added, exclusively for the AIX platform.	10.0.4.0
Catalog updates			
KB0087392	SolarWinds Network Config Generator 1.0 discovery too generic.	Discovery changed from file version to file size.	10.0.4.0
KB0088629	VisualSVN Server signatures mismatch due to different manufactures compilations.	Discovery changed from file version to file size.	10.0.4.0
BI-268	Unified versioning of Microsoft Visual Studio.	Versioning of older Microsoft Visual Studio components was changed to meet Microsoft approach to component version.	10.0.4.0
BI-4565	New template discovery for McAfee Agent.	All installed versions of the component are being detected.	10.0.4.0
Document updates			
BI-2480	Updated the phrase "Automated bundling" with "Bundling assistant."	Bundling assistant	10.0.4.0

BI-4414	Updated the document about “upgrade paths for versions 9.2.14, higher and lower.”	Upgrading from version 9	10.0.4.0
BI-4901	Update the document with information about the suggested number of VMs managed by VM Manager tool.	VM Managers performance and stability recommendation is to have less than 10 VM Manager Tool connections for a single VM Manager Tool. Use distributed VM Manager Tools to manage additional connections.	10.0.4.0
BI-4435	Update the document with information about the DEBUG level parameter.	Server log file	10.0.4.0

Security enhancements

To maintain security, the following selected components and libraries were updated.

- axios NPM package to version 0.21.1 - CVE-2020-28168
- IBM Java JRE updated to version 8.0.6.25 CVE-2020-27221
- WebSphere Liberty updated to version 21.0.0.1
- rest-client updated to version 2.0.1
- formtastic updated to version 4.0.1

VM Manager Tool version and changes

The VM Manager Tool version that is used with this update is 10.0.4.0.

Scanner version and changes

The scanner version that is used with this update is 9.2.22.1000 for Windows and 9.2.22.0000 for other platforms. The disconnected scanner version that is used with this update is 10.0.4.0 and 9.2.22.0 for IBM I

Support for new systems

The following table lists new supported systems:

Supported systems and hypervisors
Oracle Enterprise Linux 8 on x86 by using the BigFix
Tencent Cloud Server Instance
Red Hat Enterprise Linux 8.1 and higher 8.x versions on Power by using the BigFix client.
Ubuntu 20.04 on x86 by using the BigFix client
IBM Power Virtual Server on IBM Cloud

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