BigFix Inventory 10.0.2.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.2.0. 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	136	Yes
BigFix Inventory Software Catalog (main version)	10.0.2.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638555	Yes
BigFix Inventory Server	10.0.2.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.20	Yes
BigFix Inventory Server: ILMT Catalog	9.2.20	Yes
BigFix Inventory Scanner	9.2.20.2000 (Windows) 9.2.20.1000 (other platforms)	Yes Yes
BigFix Inventory Disconnected Scanner	10.0.2.0 9.2.20.0 (for IBM I)	Yes Yes
BigFix Inventory VM Manager Tool	10.0.2.0	Yes
SAP Metric Data Collector	10.0.2.0	Yes

Changes to supported systems and upgrade paths

- IBM DB2 10.1 is no longer supported as a database for BigFix Inventory Server in line with supported database list for BigFix platform
- BigFix Inventory 10.0.2 is the last release allowing for direct upgrade path from version older than 9.2.14 (released in December 2018). Starting from the next BigFix Inventory v10.0.3 upgrade from versions older than 9.2.14 will require two upgrade steps - first upgrade to BigFix v10.0.2 then to the recent BigFix Inventory version.

Change in delivery method for IBM Catalog Product Definitions

Starting with BigFix Inventory version 10.0.2.0, updates to licensing definitions and bundling information for IBM products will be available only with updates to BigFix Inventory server code. Before this change, these updates were packaged with updates to the BigFix Inventory software catalog. In order to remain compliant with IBM licensing and bundling requirements, you will need to stay current with the latest BigFix Inventory release and cannot manage IBM changes via monthly catalog distribution. This change was introduced to align with IBM announcement for version 9.2.20.0 of IBM License Metric Tool. For more information please refer to this link https://forum.bigfix.com/t/bigfix-inventory-and-ibm-catalog-product-definition-changes/35683

Changes to user interface

- Default dashboard now provides easy access to vendor-specific predefined reports and other types of information.
- Vendor-specific predefined reports that provide software discovery and licensing information for specific software vendors, such as Microsoft, Oracle, Adobe, IBM, HCL, SAP, and VMware
- Installation path is now visible on inventory reports for all discovered software (previously it was visible only for IBM software)

Included Software Catalog

- Added 631 new signatures and 70 new software vendors
- Added discovery capability of Tableau Desktop and Tableau Server
- Several defects have been fixed

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_2020_09.pdf

Modified content

The version included in the fixlet names is: 10.0.2.0

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 10.x
- Software Catalog Update
- 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:

- Initiate Software Scan
- Initiate Software Scan on Shared Disks
- Upload Software Scan Results
- Run Capacity Scan and Upload Results
- Run Capacity Scan on Virtualization Hosts
  Collect Detailed Hardware Information
- Schedule VM Manager Tool Scan Results Upload
  Discover Remote Shared Disks

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

- Configure File Checksum Collection
- Download IBM BigFix Inventory
- Install Additional VM Manager Tool (OPTIONAL)
- Install SAP Metric Data Collector
- Install VM Manager Tool
- Configure Scanner Query Timeout
- Configure Scan Cache
- Collect Specific Registry from Windows Endpoints
- Change Scanner Cache Folder
- Edit Scanner Trace Settings
- Force VM Manager Tool Scan Results Upload
- Uninstall Scanner
- The following fixlet was added but it does not require any additional action.
- Configure Collection of Additional Properties of Windows Executables

Enhancements and important changes

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

Abstract	Description	Available since
Option to enable - User management actions available in audit trail report	New user management parameter has been added as an option to track local user management operations, creation, deletion, and modification of users and user role groups through Management -> User panel... This feature is activated through Advanced Server Setting. By default, this feature is disabled. For enabling this feature, please see documentation, https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/admin/r_admin_server_parameters.html.	10.0.2.0
Installation Path is visible on Software Classification report for non-IBM software	Installation Path is reported on Software Classification report also for non-IBM software. It is possible to create reports, filter, and sort over the installation path. Each discovered instance of a component is presented separately on the report, and all operations available from the Software Classification panel, like Assign, Exclude, confirm can be performed on the instance level. This feature is available only for software discovered by mechanism covering path detection The details view of the Software Classification report will show now just the matched detections, the not matched signatures are not listed. If a product has been installed in many paths – the details view will show only the relevant path for the selected row.	10.0.2.0
Default exclusion list on windows extended to ignore discovery noise	For fresh scanner installation list of exclusions has been extended with directories containing large number of files with gathered extension not relevant to the software discovery: %CSIDL_WINDOWS%/servicing – standard Windows directory */Windows.old/ - Copy of Windows directory made by upgrade process ?:/$WINDOWS.~BT/ - some leftovers visible as incoming and having servicing path	10.0.2.0

	?:/Windows/servicing/ - when Windows is not current Windows directory, also shown in incoming data from computer ?:/ProgramData/Docker/windowsfilter/ ?:/ProgramData/Package Cache %CSIDL_WINDOWS%/SoftwareDistribution	
IBM software catalog available only with server updates	Starting from IBM ILMT 9.2.20, the software catalog is a part of LMT application and IBM does not support manual catalog update any longer: https://www.ibm.com/support/pages/node/6223460. The same rule applies to BigFix Inventory 10.0.2 and higher, with IBM catalog as a part of the application that requires upgrading. However, the definition of the software catalog does not change for other vendors, and the manual updates continue to be supported.	10.0.2.0
Ready-to-use vendor-specific reports	Vendor-specific predefined reports that provide software discovery and licensing information for specific software vendors like Microsoft, Oracle, Adobe, IBM, HCL, SAP, VMware. These reports help Software Asset Managers manage software at their organization and get prepared for contract negotiations and license audits.	10.0.2.0
Default dashboard change to provide easy access to vendor-specific predefined reports	Starting from 10.0.2.0, BigFix Inventory default dashboard shows the vendor-specific predefined reports summary of the selected inventory reports and a preview of security features. The dashboard reports have been grouped by categories to improve visibility of the available reports.	10.0.2.0
Support for ISO/IEC 19770-2 software identification (SWID) tags for patch level discovery	Component Detailed Version provides complete products fixpack level information expressed via ISO 19770-2 patch/delta tags. Starting from 10.0.2.0 Fixlet and Server update there is added support for ISO 19770-2 patch/delta tags. Before ISO tags marked as patch/delta has been rejected both on endpoint and server side. Starting from 10.0.2 update using new Initiate Software Scan fixlet and BigFix Inventory Server will also import version information from delta/patch tags and present the highest version as Component Detailed Version.	10.0.2.0

Reduced memory utilization on the server during API calls execution and improved responsiveness	The JSON response method have been changed. The responses are streamed now. With this improvement, pagination in the API is optional and all data can be fetched with a single query. The applications integrated with BigFix Inventory and using the pagination feature, should consider increasing the page size or dropping the paging option for improved response time. 3rd party applications integrating with the BFI and using paging should consider increasing page size or dropping paging for improved response times. For details please see documentation In test environment response time improvement up to 10% has been observed	10.0.2.0
Process to manage multiple entries of discovered same software instance	A new document is available on request to BigFix Inventory Support which describes how to manage discovery of products that are discovered by multiple discovery methods (for example, Oracle database or Microsoft Exchange server). For these products users may find multiple entries in inventory reports that come from different discovery methods. Users who would like to see selected entries, can refer to this document for information on how to suppress unwanted data from BigFix Inventory reports.	10.0.2.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.2.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.20 for IBM Virtualization Capacity reporting For current status of IBM validated releases see http://public.dhe.ibm.com/software/passportadvantage/SubCapacity/BFI_and_HCL_FAQ.pdf	10.0.2.0
BFI Data Import: Improved processing time and stability for File Facts import step	Index added to avoid inefficient execution plans especially when majority of File Facts has been changed.	10.0.2.0
Catalog updates		
New Microsoft Visio 2019 signatures	Catalog contains two new signatures for professional and standard editions, for 2019 version. Signatures are based on executable file and package data, where package data differ between two editions.	10.0.2.0

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			
KB0080818	When script "setup-server-linux-x86_64.sh" is executed to run BFI installer, following error message is shown on RHEL 6: ./setup-server-linux-x86_64.sh[141]: [: 6Server: arithmetic syntax error	No error messages	10.0.2.0
KB0081683	Added information in the document about IBM i Catalog. Updated relevant sections that IBM i Disconnected Scanner package includes an embedded Software Catalog and the option to update Software Catalog has been disabled since BFI version 9.2.17.	Available in documentation in section, https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/planinconf/t_disc_downloading.html	10.0.2.0
KB0079282	Changed documentation to point to HCL support instead of IBM support	Available in documentation in section, https://help.hcltechsw.com/bigfix/9.5/inventory/Inventory/security/t_keystore_password_configuration.html	10.0.2.0
KB0080332	Updated documentation on DB2 maintenance procedures	Available in documentation in section, https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/tuning/t_maintain_database.html	10.0.2.0
KB0081958	Added information in the documentation that creating more than 20 computer groups may impact the performance.	Available in documentation in section, https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/planinconf/t_setting_up_computer_groups.html and https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/tuning/tuning_main.html	10.0.2.0

KB0078838	BFI session timeout doesn't work when SSO is enabled. After 20 minutes of inactivity after page is being refresh, BFI is redirected to default identity provider page which is serving new cookie. On most panels it is not causing any problems, but when customer will apply any filter to the panel then Unexpected Single Sign On Error is appearing. In dev tools SAML20UnsolicitedState is visible during wrong redirection.	Session will respect value set for time out.	10.0.2.0
KB0078044	"Catalog Download" task overwrites the new catalog on endpoints because the relevance clause inside checks if the catalog version is different.	"Catalog Download" task is relevant only if the existing endpoint catalog is older. The documentation has been updated with information that changes in the file extension list should be made after contacting HCL support.	10.0.2.0
KB0081727	Failed Imports might cause keeping removed File Facts, ISO Tags and Catalog Scan results	A condition has been applied to nominate facts for removal to properly consider all scan results processed in current import.	10.0.2.0
KB0081307	Package Data view shows removed data in context of the Computer	Removed package data is no longer displayed when viewing reports from a computer or computer group context.	10.0.2.0
KB0081394	Java usage will be not reported on selected computer with deactivated collection. Application usage by path may create a huge result file and impact Platform Replication.	The output of the usage scan has been limited, and the maximal size of it has been set to 1 MB to prevent impact on BigFix Platform.	10.0.2
IJ26396	Import of data fails during the upload of the PVU table and the following error is written in the log. ERROR: [ILMTCore] (ImportThread) doAction java.lang.ArithmeticException: divide by zero at com.ibm.ilmt.core.etl.core.actions.pvutable.	Data import does not fail any more after the PVU table upload.	10.0.2.0

	RefeshProcessorMeasuresForx86ManagedNodes.execute (RefeshProcessorMeasuresForx86ManagedNodes.java:48) at com.ibm.ilmt.core.etl.core.actions.VUTImportAction. doAction(VUTImportAction.java:78)		
IJ25458	The Schedule VM Manager Tool Scan Results Upload fixlet is not relevant on Cent OS due to relevance restriction according to which the fixlet should be relevant on Red Hat Linux but not SUSE Linux.	Scheduling of VM Manager Tool Scan Results Upload fixlet is relevant on Cent OS endpoint.	10.0.2.0
IJ25599	Computer that is identified as Oracle Public Cloud has wrong value in the Computer Type column on the Hardware Inventory report.	The issue does not occur.	10.0.2.0
IJ25697	When the number of partition cores exceeds 999 on the Hardware Inventory report, the following error is displayed: Your database is offline/inaccessible, or your database server credentials are incorrect or have expired. Please contact the administrator or refer to tema.log for more information.	The issue does not occur.	10.0.2.0
197234	When the number of CPUs is increased on an LPAR that is monitored by using a disconnected scanner, the changed number of CPUs is not reflected in BigFix Inventory.	The issue does not occur.	10.0.2.0
BI-817	Long execution of "Generate Software Components" Data Import step up to 10h	The query has been rewritten with dedicated implementation for MS SQL and DB2 databases to optimize execution time.	10.0.2.0
BI-158	Adjusting look and feel to be coherent	Change highlights of menu options on the whole UI to light blue Management: Roles -> 14 font size for row number in the table Directory Server -> Management: Single Sign-On Settings -> LTPA, increase	10.0.2.0

		'Directory Server' minimum size of the drop down (min-size 300px), selection color change to set placeholder 'Select Directory Server', color of selection (#cce8f2) Disabled 'Save' until the user select all the options in forms, check mandatory elements before enabling button Management: Server Settings -> information massage on hover, the message is hidden when user stop hovering Management settings panels when there is no table: texts moved to center Updated color of the error/warning messages on the whole UI	
BI-1348	When running BFI installer there were messages generated referring to IBM	Generated messages by installer are now referring to HCL.	10.0.2.0
BI-732	Sorting columns on Contact Usage Data generates error message	The issue does not occur.	10.0.2.0
BI-1355	Saved Reports filtering criteria is disabled after selecting row	The issue does not occur.	10.0.2.0
BI-763	Added check in installation script to not install on DB2 11.1 as this version is not supported	Installation on not supported DB2 11.1 is blocked.	10.0.2.0
BI-1218	SAP Metric Data Collector does not work for version 9.x	Fixed relevance script and data can be collected now	10.0.2.0
BI-38	Cannot load Software Classification after Data Source is removed and Data import was not yet run	The issue does not occur.	10.0.2.0
BI-62	Updated document with information about how 'Initiate Software Scan' fixlet collects the edition information from Windows Server configuration stored in Windows Registry and adds the edition into Windows Package information.	Available in the document at https://help.hcltechsw.com/big fix/10.0/inventory/Inventory/so ftinv/c_enterprise_applications _inventory.html	10.0.2.0
BI-480	SAP tool install log is empty on Windows	Log is generated and it is not empty.	10.0.2.0
BI-1378	Missing scrollbar/some items not visible in Saved Reports menu. The issue is present even while using Full HD resolution	The issue does not occur.	10.0.2.0

BI-2103	Wrong name of columns on Audit Trail when user have limited permissions: Action time instead of Modification Date Action details instead of Details	Columns have proper naming	10.0.2.0
BI-2307	Scan File Data not removed on delta scans	File Data removed when software is not present on given machine	10.0.2.0
BI-622	Missing column order in scheduled reports. Column order is sometimes different in scheduled reports than in reports generated from UI	Scheduled reports columns have same order as columns on UI	10.0.2.0
BI-158	Software Classification widget percent sum of completed and pending instances on IBM Software Classification widget could be higher than 100%	Calculation corrected 100% value is not exceeded	10.0.2.0
Scanner updates			
197183	Software scan unnecessarily follows symlinks for paths defined in excludeDirectory/includeDirectory properties.	The issue does not occur.	10.0.2.0
IJ24961	4 cores Oracle Netra Sparc T4-1 is being discovered as 8 cores. Number of cores mismatch has caused a misleading hardware scan output.	The issue does not occur.	10.0.2.0
IJ23404	It has been confirmed that in a very rare case, on some unusual UNIX OS setups, under circumstances that have not yet been precisely defined, the mechanism of caching the scan data by the software scanner fails. Due to this error, the scanner is looping through the cache data, and as a result occupies one of the threads available on the machine. The issue is caused by the incorrect processing of scanner cache data.	New experimental cache was introduced. For more information, see: APAR IJ23404.	10.0.2.0
IJ23587	The capacity scan returns the following error: "Could not load a transcoding service". The problem is caused by incorrect settings of the system's locale.	The issue does not occur.	10.0.2.0
197728	Subcapacity values are incorrectly counted on Solaris x86 with kernel zones.	The issue does not occur.	10.0.2.0
KB0080200	Scanner misinterprets SMBIOS structure on Linux. 'ComponentID' section is empty due to cpuid component not being able to read SMBIOS data on Linux	The issue does not occur.	10.0.2.0

KB0081623	File facts/package data are not being preserved in database despite setting raw_data_api_history_keep_days value as more than 0. raw_data_api_history_keep_days was being overwritten by pruning_days_to_keep	BFI will keep the raw data in the database for a duration specified in raw_data_api_history_keep_days parameter	10.0.2.0
	Content updates		
KB0081663	Initiate Software Scan fixlet not applicable on Solaris endpoints	Initiate Software Scan becomes relevant on all Solaris endpoints	10.0.2.0
	Catalog updates		
KB0080543	Documentation is updated with information about excluded or suppressed instances of licensed computers not being shown under Contract data. The advantage of using Metrics over Contracts is added in the document.	Available in documentation in section, https://help.hcltechsw.com/bigfix/10.0/inventory/Inventory/softinv/c_contracts.html	10.0.2.0
KB0081696	SoftArtisan OfficeWriter is being mismatched with other products based on the same file and file version	Changed file version to file size for all signatures based on 'licensemanager.exe'.	10.0.2.0
KB0081725	Tibco Rendezvous is being detected twice on one software installation	Change in signature body to filter installation path by 'bin/' and the end.	10.0.2.0
KB0081437	Tableau software is being detected with wrong version reported	Deletion of old, and creation of new template signatures, that differ between Server and Desktop versions based on package name. New discovery will be visible just after next import (no scan is required).	10.0.2.0
KB0081777	Signature for Studio for ActiveX is not supporting newer versions	Deletion of old file signature and replacing it with new package template signature. New discovery will be visible just after next import (no scan is required).	10.0.2.0
KB0082293	The following IBM Components are missing default bundle options in BFI Software Classification Report: • AIX 7.1 Enterprise Edition 1.3 • AIX 7.2 Enterprise Edition 1.3 • IBM Security Guardium Data Protection 11.2	The following IBM Components are correctly bundled in BFI Software Classification Report: • AIX 7.1 Enterprise Edition 1.3 • AIX 7.2 Enterprise Edition 1.3	10.0.2.0

	• IBM Business Automation Workflow Enterprise for Non-Production Environment 20.0	• IBM Security Guardium Data Protection 11.2 • IBM Business Automation Workflow Enterprise for Non-Production Environment 20.0	

Security enhancements

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

- Rails upgraded to version 5.2.4.3 - CVE-2019-5418, CVE-2019-5419, CVE-2019-5420
- Nokogiri-1.6.8.1 patched to use newer Xerces 2.12.0
- jQuery upgraded to 3.5.1 - CVE-2020-11022, CVE-2020-11023
- Websphere WLP upgraded to 20.0.0.5 - CVE-2020-4329, CVE-2020-4303, CVE-2020-4304
- Java upgraded to 8.0.6.15 - CVE-2020-2781, CVE-2020-2601, CVE-2020-14621, CVE-2020-14581, CVE-2020-14579, CVE-2020-14578, CVE-2020-14577, CVE-2020-2590

VM Manager Tool version and changes

- The VM Manager tool version that is used with this update is 10.0.2.0 and it includes fix for IJ24961. Please refer to the defect fixes table for details.
- The 32-bit version of the VM Manager tool is no longer supported.

Scanner version and changes

The scanner version that is used with this update is 9.2.20.2000 for Windows and 9.2.20.1000 for other platforms. The disconnected scanner version that is used with this update is 10.0.2.0. As an exception, the disconnected scanner version for IBM I is 9.2.20.0.

Support for new systems and hypervisors

The following table lists new supported systems and hypervisors:

Supported systems and hypervisors
SLES 15 SP1 on Power
vSphere ESXi 7.0 and vSphere vCenter Server 7.0
Disconnected scanner on Red Had Enterprise Linux 8.1 on Power
Disconnected scanner on Ubuntu 20 x86

The following table lists systems and hypervisors for which support is removed starting from this update.

End of support for systems and hypervisors
DB2 10.1
VM Manager tool version 32-bit
IBM i 6.1

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