

BigFix Inventory 10.0.5.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.5.0. 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	143	Yes
BigFix Inventory Software Catalog (main version)	10.0.5.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638622	Yes
BigFix Inventory Server	10.0.5.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.23	Yes
BigFix Inventory Server: ILMT Catalog	9.2.23	Yes
BigFix Inventory Scanner	9.2.23. 1000 (Windows) 9.2.23. 0000 (other platforms)	Yes Yes
BigFix Inventory Disconnected Scanner	10.0.5.0 9.2.23.0 (for IBM I)	Yes Yes
BigFix Inventory VM Manager Tool	10.0.5.0	Yes
SAP Metric Data Collector	10.0.5.0	Yes

Changes to TLS support

After upgrading to version 10.0.5, TLS 1 and TLS 1.1 are disabled and do not work. Only TLS 1.2 is supported. Therefore, customers may notice connection issues to database and hypervisors from VM Tool.

To mitigate problem on MS SQL, please install appropriate Software Pack / Content Update for Microsoft SQL Server database ([Software requirements](#)).

To migrate problem on VMware ESXi upgrade to VMware ESXi 6.0 Update 3 ([Detailed system requirements](#)).

Changes to contract management

Contract can now be defined for product and any metric in new *All Contracts* report. This report is available from *Reports* menu and from new *Contracts* section in main dashboard. This upgrade includes the capability to define contracts manually. API for integration and automation will be available shortly.

Custom metrics management is available in both *Products & Metrics* and *All Contracts* reports. New custom metrics can be added, modified, assigned to products, used in new contracts definition, software bundling and as filtering option. *Product Metric per Group* is new report with supporting data for contracts but also offers more reporting capability. With new *Product Metric per Group* report, it is now possible to

see product metric calculation per computer group in one view. For optimal performance in current version, this report supports by default up to 20 computer groups. Even if more computer groups are defined, the additional reports are not listed.

All panels related to previous contract management functionality are marked as deprecated and will be hidden by default in the future BigFix Inventory release with option to enable them back.

For more information refer to user [documentation](#).

Support for BigFix platform Server Based Computer Groups

BigFix 10.0.4 introduced Server Based Computer Groups which require dedicated support. If BigFix Inventory import was already run with previous version of BigFix Inventory (lower than 10.0.5) then there is a need to resynchronize computer group definition, for details please see [documentation](#).

Included Software Catalog

This release includes Software Catalog version 10.0.5.0 with capability to discover around 360 new 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_07.pdf

Modified content

The version number of the fixlets is 10.0.5.0.

Fixlets were updated and these fixlets will no longer use zip/unzip to pack/unpack files, but 7zip on Windows.

- Scanner:
 - Install or Upgrade Scanner
 - Install or Upgrade Scanner in private mode on Windows.
 - Initiate Software Scan
 - Upload Software Scan Results
 - Force Reupload of Software Scan Results
 - Run Capacity Scan and Upload Results
 - Run Capacity Scan on Virtualization Hosts

- VM Manager:
 - Install VM Manager Tool
 - Install Additional VM Manager Tool
 - Update VM Manager Tool to Version
 - Force VM Manager Tool Scan Results Upload
 - Schedule VM Manager Tool Scan Results Upload

- Troubleshooting:
 - Collect Logs from Endpoints
 - Edit Scanner Trace Settings

- BigFix Inventory Update:
 - Upgrade to the latest version of BigFix Inventory
 - Upgrade to the interim version 10.0.2.0 of BigFix Inventory if version older than 9.2.14
 - Download the Disconnected Scanner Package
 - Download the Disconnected Scanner Package for IBM i
 - Software Catalog Update

- Other
 - Install SAP Metric Data Collector
 - Update SAP Metric Data Collector
 - Identify Computers on Public Clouds
 - Get Oracle Concurrent Sessions Number
 - Get Oracle Features
 - Test CIT signature

Enhancements and important changes

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

Abstract	Description	Available since
Improved contracts management	Contract can be defined for product and any license metrics including custom. New reports, <i>All Contracts</i> and <i>Product Metric per Group</i> support now reporting for up to 20 computer groups. Previous contract functionality is marked as depreciated.	10.0.5.0
Custom metrics management on Products & Metrics report	Adding, modifying, and deleting custom metrics is allowed. New metrics can be assigned to products used in new contracts definition, software bundling and can be used as filtering option as well.	10.0.5.0
Product publisher name available on Software Classification report	<i>Product Publisher Name</i> column is added on Software Classification report. This column is hidden by default in base view.	10.0.5.0
Component Detailed Version column added to predefined reports	Component Detailed Version column is added to the following reports on Software Classification panel: <ul style="list-style-type: none"> • Software Installations • Current Installations • Software: Discovered in the last 2 weeks 	10.0.5.0
Information about duplicated UUID visible in TODO list	To Do list is extended with information that there are computers which have duplicate UUIDs. An appropriate warning with a list of these computers is written to the import log. For troubleshooting the issue and more details, refer to Duplicate UUIDs problem .	10.0.5.0
One API for discovered software covering both software classification and package data	Unified API: combine package data with software instances data. New API that shows currently installed packages and software instances in one view	10.0.5.0
Suppress Package Data option	There is new option available in Package Data report to suppress package entries not relevant for the report. This option works like Suppress option in Software Classification Report with one difference of automated suppression of the same package entries from all computers including future discovery.	10.0.5.0
Support for BigFix Platform 10.0.4 Server Based Computer Groups	Added support for BigFix Platform 10.0.4 Server Based Computer Groups. Recommended to upgrade BigFix Inventory first before defining Server Based Computer Groups.	10.0.5.0

Support for GZIP format distribution of Software Catalog to the endpoints	Software Catalog which is automatically downloaded from BigFix Inventory by endpoints in now in GZIP (.gz) format for all operating systems. The new catalog will be generated and sent during the first data import after upgrade.	10.0.5.0
BFI installation date is added to audit snapshot	BFI installation date is added to "data_condition.txt" file of audit snapshot.	10.0.5.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.5.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.23 for IBM Virtualization Capacity reporting For status of IBM validated releases see following BFI FAQ Document .	10.0.5.0
Updated PVU table	Updated Processor Value Unit table to version 9.2.23.0	10.0.5.0

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			
KB0088181	On Windows systems, when Scanner trace log level is set to MAX, wscansw.exe Catalog Based Scan step significantly increases its duration also causing high CPU usage.	This has been resolved and duration or CPU usage do not occur anymore.	10.0.5.0
KB0089750	Shared Disk import fails with ERROR: LMT ETL step failed, Value is too long.	The issue is fixed.	10.0.5.0
KB0089733	BFI cannot connect to LDAP/LDAPS.	The issue is fixed. If the problem persists after upgrade, refer to documentation	10.0.5.0
KB0089710	Issue with the branches cause that Oracle discovery based on ISO is not reported.	The issue is fixed.	10.0.5.0
KB0091200	Schema update fails on dropping DBO.SAM_FILE_FACTS_SCD_SCAN_FILE_ID_INDEX	The issue is fixed, and schema update works properly.	10.0.5.0
KB0091029	OutOfMemory exception during File Facts import. Import is hanging.	The issue is fixed.	10.0.5.0
KB0090178	Performance fix on Inventory Builder: Discovered Software Details	Optimized algorithm to overcome bad execution plans on MS SQL	10.0.5.0
KB0089730	BigFix Inventory 10.0.4.0 schema update is failing	Defect fixed and the update is not failing	10.0.5.0
KB0090975	BigFix Inventory SQL temadb maintenance job is failing on MS SQL with SQL_Latin1_General_CP1_CS_AS collation is set on the MS SQL instance	Job definition has been adjusted to work on case sensitive environments. Jobs has been also split into two tasks: Check the BFI Import and Reorganize all indexes	10.0.5.0
KB0091207	"Has Usage" values in the in the Usage per Computer panel were set incorrectly to "No" in some cases. Moreover, CSV and PDF report files exported in the panel were missing usage details for	The issue is fixed for new and updated systems.	10.0.5.0

	records with the "Has Usage" value set to "No".		
KB0091264	BFI server upgrade issue from V.9.2.11 to v10.0.2 when executing migration script 1526296744_jupiter_fix_prod_in v_apar_ij06399.rb	The fix is included in BigFix Inventory 10.0.5, however, HCL support should be contacted to get a hotfix for BigFix Inventory version 10.0.2.	10.0.5.0
KB0090734	Import fails with duplicate key error after upgrade to BFI v10.0.4	Adjusted population of the dictionary, as well as trimming the data after gathering. Server now supports versions with the trailing spaces.	10.0.5.0
KB0090014	Import fails with duplicate key error after upgrade to BFI v10.0.4	Adjusted the checksum calculation for the version text. The server will now calculate proper checksum for the '0.0' version	10.0.5.0
KB0091465	Outdated VM Manager Status for non VM Manager managed endpoints	Incorrect condition for highlighting results as outdated adjusted to exclude physical/bare metal endpoint.	10.0.5.0
KB0091337	Solaris x86 Partition Cores not updated after upgrading to 10.0.2	Due to changes in underlying Solaris x86 processing, information shown on UI was not updated. Information is updated after first data import. PVU / RVU MAPC calculation was not affected.	10.0.5.0
KB0091089	Delete false end of support date for HCL products	End of supports dates set by IBM to 2019-07-01 for HCL products were deleted since support is continued by HCL now. In BigFix Inventory lower than v10.0.5 and IBM License Metric Tool those dates are still set. For details see Interpret EOS dates.	10.0.5.0
BI-3828	BFI is starting for a long time (30 minutes or more), nothing shown on UI. Occurs when application is not able to connect to database.	Database connection handling was improved. Proper messages appear when connection to database is lost. Re-connecting was also improved.	10.0.5.0
BI-5125	During Install Path update step of inventory builder (adding ISV paths) - instance and bundling tags updated improperly on	This issue is fixed, and tags are updated properly.	10.0.5.0

	shared instances, e.g., shared instances have tags from original instances.		
BI-5202	After adding a new metric to a product, Install Seats metric is removed from this product after the next data import.	The issue is fixed. When there is first import after BigFix Inventory upgrade, missing metrics will be restored.	10.0.5.0
BI-4601	Registered Users metric aggregation performance is very slow.	Performance of Registered Users and other metrics aggregation is improved. Aggregation calculation uses now all logical CPUs by default.	10.0.5.0
BI-4728	VMMManager Upgrade was behaving different in non-windows when Copy folder was not present	VMMManager action for non-windows is now in-line with windows.	10.0.5.0
BI-5168	When Upgrade was triggered, if there were no necessary permissions for the reindexing job then there was an error without sufficient information	During upgrade, checks were added to validate DB owner and edition of DB and necessary warnings/ information is displayed.	10.0.5.0
IJ30106	When a new connection to Oracle VM Server is defined in License Metric Tool, status of all existing Hyper-V connections changes to <i>Invalid Credentials</i> .	The issue does not occur.	10.0.5.0
198690	An unexpected error might occur when SSO is configured without properly configured Webseal Reverse Proxy.	The issue does not occur.	10.0.5.0
198541	When FIPS compliance is enabled and server is upgraded, it is not possible to log in to UI.	The issue is fixed.	10.0.5.0
198507	The OutOfMemoryError exception is thrown by the application server.	Max heap size has been increased for default configuration.	10.0.5.0
198503	When the Docker scan is disabled, the /var/lib/docker folder is unnecessarily scanned.	Docker directory is excluded from scan when docker scan is disabled.	10.0.5.0
198769	When you run the vmman - retrieveddebugdata command, the connection fails with the following status: <i>Invalid Credentials - Cannot complete</i>	The issue is fixed.	10.0.5.0

	<i>login due to an incorrect username or password. The problem occurs if the username or password that is specified for the VM manager contains the ampersand (&).</i>		
Content updates			
KB0089469	Run Capacity Scan on Virtualization Hosts is relevant even for endpoint not being hypervisor host	Updated relevance to check if system is capable to be a hypervisor: module kvm listed in /proc/modules processor got flag vmx or svm in /proc/cpuinfo. As a result, fixlet is no longer applicable for the endpoint not capable to host.	10.0.5.0
KB0091295	"Get Oracle Features" fixlet placing the file lmt_bfi_get_script.sh always in instance owner's folder	An option to use temporary folder instead of Oracle instance owner's folder is added.	10.0.5.0
KB0090976	docker host's BESClient installation is discovered in docker containers when the host volume is visible on docker	The docker host's BESClient installation is not discovered on docker	10.0.5.0
KB0087650	Software Scan returns with error code 1	Fixed and the behavior is no longer observed	10.0.5.0
KB0092316	Fixlet "Upgrade to the latest version of BigFix Inventory (10.0.5.0)" may fail during the execution.	The issue does not occur.	10.0.5.0
Catalog updates			
KB0091403	Signature for Sybase Adaptive Server Enterprise v11.1 needs to be deleted due to false discovery with other products.	The signature was deleted.	10.0.5.0
KB0091154	NetBackup 3.0 signature is falsely discovering other software due to wrong CIT operator	The CIT operator was changed. The discovery is now valid.	10.0.5.0
KB0091415	Signatures for "Checkpoint SmartConsole" require deletion of file version. Only file size should be checked.	Two signatures with incorrect "1.0" version were modified – check for the version was deleted.	10.0.5.0

KB0091284	Signatures for “Microsoft .NET Core” v1.1 and v1.0 need to be deleted. Template signature with version restriction needs to be updated for version 1.x	Signatures for “Microsoft .NET Core” v1.1 and v1.0 were deleted. Template signature with version restriction was updated for version 1.x	10.0.5.0
KB0089612	Signature for component IBM Tivoli Enterprise Console 3.9 delivers false discovery.	The signature was deleted.	10.0.5.0
KB0089415	File confix.xml is used as main discovery point causing extensive file read (long scan time and CPU utilization).	Two signatures were deleted.	10.0.5.0
KB0091120	Discovery for Oracle Clusterware reports wrong component version.	Signature for version 10.2 was fixed. Next catalog will provide new way of discovery for this software.	10.0.5.0
BI-5659	Component name of “InstallShield” 11.0 and 11.5 should be changed to “InstallShield Scripting Engine”.	Product “InstallShield Scripting Engine” was added. Component name was changed for the version and two releases.	10.0.5.0
BI-5954	Signatures for the Adobe Acrobat Reader DC versions 2020, 2021, 2022 are missing.	Signatures for the Adobe Acrobat Reader DC versions 2020, 2021, 2022 were added.	10.0.5.0
Document updates			
KB0089517	'Bundling assistant' still not referred as 'Automated bundling' across the document.	Corrected the phrase 'Bundling assistant' across the document. After changing 'Automatic Bundling' feature name to 'Bundling Assistant' not all documentations pages were updated. Doc link: BFI 10.0 document	10.0.5.0
KB0090889	Document limitation on vulnerabilities found in BFI	Improved documentation about elements impacting accuracy of CVE reporting in BFI Doc link: Checking common vulnerabilities	10.0.5.0
KB0089359	Issue with VM manager central ID	Added a note in the VM Manager Installation requirement section about the BESRootServer.	10.0.5.0

		Doc link: VM Manager Tool installation requirements	
KB0092166	BFI 10.0.3 import after upgrade from 10.0.1 taking over 500 hours	Updated the document about performance improvement of computers that involves using the <i>maxAggregationThreads</i> and <i>maxReaggregationThreads</i> variables to control the number of CPUs being used. Doc link: Advanced server settings	10.0.5.0
BI-5023	Update the document for UUID, Outdated VM Manager Data status and correct the information about WinRM command and Hyper_v URL.	Updated the document with information about: <ul style="list-style-type: none"> • Troubleshooting No VM Manager data status • Corrected the syntax of a WinRM command. • Updated 'Identifying computers in public clouds' section. • Corrected the 'default port' used in configuring WinRM. Doc links: <ul style="list-style-type: none"> • Licensing rules • Identifying computers in public cloud • Configuring WinRM • Adding VM managers in central mode 	10.0.5.0
BI-5256	End Of Support Date is not correct for various Microsoft Products	Added the information that the End of Support date for Microsoft Component in Software Component shows the 'extended support date' and not the 'end of support date'. The date can be manually updated. Doc link: Changing the EOS	10.0.5.0
BI-6025	Update software requirements and SPCR details	Updated 'security enhancements' in the what's new, new requirements in the software requirements and system requirements. Doc links: <ul style="list-style-type: none"> • What's new 	10.0.5.0

		<ul style="list-style-type: none"> • Software requirements • System requirements 	
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Security enhancements

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

- Rails upgraded to version 5.2.6 - CVE-2021-22880, CVE-2021-22904, CVE-2021-22885
- Bundler upgraded to version 2.2.20 - CVE-2019-3881, CVE-2020-36327
- IBM Java Runtime upgraded to version 8.0.6.30
- IBM WebSphere Liberty upgraded to version 21.0.0.6

VM Manager Tool version and changes

The VM Manager Tool version that is used with this update is 10050. Logs per VM Manager are included in config files for better readability of logs.

Scanner version and changes

The scanner version that is used with this update is 9.2.23.1000 for Windows and 9.2.23.0000 for other platforms. The disconnected scanner version that is used with this update is 10.0.5.0 and 9.2.23.0 for IBM I.

Supported new systems and hypervisors.

The following table lists new supported systems:

Supported systems and hypervisors
NEC Cloud IaaS Instance
Support for MS SQL 2019 as database for BigFix Inventory
Debian 10 x86 (64 bit) by using the BigFix client
Red Hat Enterprise Linux 8 on zSystems by using the BigFix client
Red Hat Virtualization 4.4
SLES 15 on zSystems by using the BigFix client
Ubuntu 18 guest on Ubuntu KVM on Power by using the BigFix client and the disconnected scanner

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