

BigFix Inventory 10.0.9.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.9.0. 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	153	Yes
BigFix Inventory Software Catalog (main version)	10.0.9.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638729	Yes
BigFix Inventory Server	10.0.9.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.27.0	Yes
BigFix Inventory Server: ILMT Catalog	9.2.27.0	Yes
BigFix Inventory Scanner	9.2.27.1000 on Windows 9.2.27.0000 on other platforms	Yes Yes
BigFix Inventory Disconnected Scanner (incl. package for Containers)	10.0.9.0 9.2.27.0 on IBM I	Yes Yes
BigFix Inventory VM Manager Tool	10.0.9.0	Yes
SAP Metric Data Collector	10.0.9.0	Yes
BigFix Inventory Image Scanner Script	10.0.9.0	Yes
BigFix Inventory Scanner Service	10.0.9.0	Yes
BigFix Inventory Cloud Adapter	10.0.9.0	Yes
Software Data Harvesting Tool for BigFix Inventory	1.1	Yes
BigFix Inventory Keystore Migration Tool	1.0	New

Allowed upgrade path

Minimal version recommended for direct upgrade path: **9.2.16**

For versions older than **9.2.16** **upgrade first to 10.0.2** using an already available fixlet.

BigFix Inventory Scanner Service 10.0.8.0 (previous version) is not compatible with BigFix Inventory Server 10.0.9 due to a change of success response code from 200 to 204.

BigFix Inventory Server 10.0.9.0 supports BigFix Inventory Scanner Service v 10.0.9.0 only.

After upgrading BigFix Inventory server with FIPS function enabled ensure that java.security files contain RSAPSS, RSASSA-PSS listed in jdk.tls.disabledAlgorithms. For more information, see [Configuring the server to achieve FIPS compliance](#).

DB2 10.5 support will be removed starting from future release

BigFix Inventory v10.0.9.0 is the last release with support for DB2 10.5. Future releases of BigFix Inventory will no longer support DB2 10.5.

IBM withdrew support for DB2 10.5 in April 2020. For more information, see: [Software lifecycle](#).

Changes to Software Discovery in Containers



This feature is licensed under Active Container SKU/unit of measure.

Image Scanning solution now supports use of Podman in addition to Docker (r) as the runtime for executing scans. Image scanner was verified against Podman versions: 1.9.x, 3.2.x.

Note: Podman version 2.0.x is not supported due to a known issue:

<https://github.com/containers/podman/issues/7515>

BigFix Inventory Server 10.0.9.0 supports BigFix Inventory Scanner Service v 10.0.9.0 only due status code change for successful data upload.

Changes to UI Components in New Contracts

UI components were updated to the latest version to resolve a few usability issues and limitations. With this change there is one new limitation: it's not possible to type "-" in Number text fields of Edit/New Contract dialog in Firefox web browser. Users can use mouse wheel or arrow keys to get negative numbers.

Included Software Catalog

This release includes Software Catalog version 10.0.9.0 with capability to discover 470+ new software versions including but not limited to the following software manufacturers: Adobe, AutoDesk, Cisco Systems, Hewlett-Packard, Microfocus, Microsoft, Oracle.

New template signatures included in this release cover 50+ new software versions:

Template signature is a method of discovery where the version of a component is detected automatically, and specific version added to the catalog on fly. Such template signatures include all component versions. They are used when the software is frequently updated and deployment method is not changed. One template covers 10+ software versions.

Publisher Name	Component Name	Platform	Release
Tripwire, Inc.	Tripwire Axon Agent	WINDOWS, UNIX	10.0.9.0
Tripwire, Inc	Tripwire Enterprise Console	WINDOWS	10.0.9.0
Microfocus	eDirectory	WINDOWS, UNIX	10.0.9.0
Microfocus	Access Manager	UNIX	10.0.9.0
OpenSSL Project	OpenSSL	UNIX	10.0.9.0



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, to above when discovery is based on 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).

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_2022_07.pdf

Modified content

The version number of the fixlet is: 10.0.9.0

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

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
- Run Capacity Scans and Upload Results
- Get Oracle Features
- Get Oracle Concurrent Sessions Number


The following fixlets were updated or added:



- Configure Scan Cache
- Uninstall Scanner
- Test CIT Signature
- Clear Corrupted Scanner Installation
- Run Software Data Harvesting Tool
- Clear cache to force rescan Docker containers during next Software Scan (*this task refers to the old functionality, ISO tagged software scan on Docker containers*)
- Force Reupload of Software Scan Results
- Upgrade to the interim version 10.0.2 of BigFix Inventory if version older than 9.2.14 (*no name change in 10.0.9, note that the latest minimal version for direct update is 9.2.16*)
- Update the Log4j library in VM Manager Tool to version 2.17.1 (*no changes in 10.0.9*)



Enhancements and important changes

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

Abstract	Description	Available since
Removal of deprecated features and panels	<p>The following panels, related data and import steps are removed:</p> <ul style="list-style-type: none">• Contracts (Deprecated)• Contract Usage Data (Deprecated)• Software Installations (Deprecated)• Inventory Exploration (Deprecated)• Unrecognized Files <p>Custom data related to these panels (e.g., deprecated contracts definitions or saved reports) must be migrated to use supported panels before upgrade, because it will be deleted during update.</p> <p>This results in reduced import time. For specific details refer to Removed Data Import steps section.</p>	10.0.9.0
Template signatures support in Catalog Customization	<p>Catalog Customization panel has an option to create template signatures with auto-detectable versions of software components (based on file or package version). For more information, see Catalog customization process.</p>	10.0.9.0
New BigFix Inventory Scanner experimental cache implementation	<p>BigFix Inventory Scanner (CIT) includes a new type of cache for filesystem information (file listing) with lower footprint and allowing to query the cache. It enables troubleshooting CIT as well as conducting the PoC's for new capabilities requiring checking against files.</p>	10.0.9.0
Added support for Podman runtime in Container Images Scan solution	<p>Image Scanning solution supports use of Podman (https://podman.io) in addition to Docker (r) as the runtime for executing scans.</p> <p> <i>This feature is licensed under Active Container SKU/unit of measure.</i></p>	10.0.9.0
Extension of REST APIs	<p>The following changes are introduced in REST APIs.</p> <ul style="list-style-type: none">- The <code>api/sam/v2/license_usage</code> is extended with information about ratio that is applied to convert product license metrics to license metrics of the FlexPoint bundle or Cloud Pak to which the product is assigned. New columns available: <code>product_bundle_ratio_divider</code>, <code>product_bundle_ratio_factor</code>.- The <code>computer_hardware</code> association is extended with information about the hardware architecture. New column available: <code>platform</code>	10.0.9.0

Added log rotation policy to BFI Cloud Adapter and BFI Scanner Service	Log rotation policy was added to BFI Cloud Adapter and BFI Scanner Service. The default configuration work as follows <ol style="list-style-type: none"> 1. roll over (archive) log file every day 2. each log file is at most 10 MB 3. keep maximum of 365 archive log files 4. keep maximum of 100 MB of all archive log files 	10.0.9.0
New predefined license metrics	The following metrics are added: Named User, Client Access License (CAL), Management License (ML). To use any of the metrics in bundling, assign it to a product on Products & Metrics panel. License calculations are not yet supported for those metrics. The option to set metric values manually is active.	10.0.9.0
Reporting PVU and VPC metrics for IBM DB2 that runs in the warm standby mode	Support for the licensing model of IBM DB2 for product instances that run in the warm standby mode that consume a fixed number of PVUs or VPCs. When user assigns product instances with the PVU Warm Standby or VPC Warm Standby metric, License Metric Tool reports 100 PVUs or 1 VPC per instance respectively.	10.0.9.0
Updated Unix discovery of OpenSSL to report detailed version	Existing discovery for OpenSSL was deleted. Added a new template signature for OpenSSL for UNIX platform with support for multiple versions.  <i>Old discovery records will be closed, and new ones will be opened.</i>	10.0.9.0
New discovery for Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS_AAAI)	Discovery of Oracle Financial Services Advanced Analytical Applications Infrastructure was added for UNIX platform for version 8.0 and 8.1.	10.0.9.0
New discovery for HCL Domino Server and HCL Domino Enterprise Integrator	Detection added for versions 11 and 12 (release reported in the Detailed Version for HCL Domino Server) for Windows and Unix platforms.	10.0.9.0
New discovery for Microfocus Products (Sentinel Enterprise and Sentinel for Log Management, eDirectory & Access Manager)	Added discovery for: <ul style="list-style-type: none"> • Sentinel Enterprise and Sentinel for Log Management: <ul style="list-style-type: none"> ○ Platforms: UNIX ○ Versions: 8.2, 8.3, 8.4 & 8.5 • eDirectory: <ul style="list-style-type: none"> ○ Platforms: Windows and UNIX ○ Added a new eDirectory template signature with support for multiple versions • Access Manager: <ul style="list-style-type: none"> ○ Platforms: UNIX 	10.0.9.0

	<ul style="list-style-type: none"> ○ Added a new Access Manager template signature with support for multiple versions 	
Updated discovery of Tripwire Enterprise Console and Tripwire Axon Agent	<ul style="list-style-type: none"> ● Deleted detection of Tripwire Enterprise Console and replaced it with new template signature for Windows platform with support for multiple versions ● Deleted detection of Tripwire For Server, Tripwire Enterprise Server ● Added two template signatures for Tripwire Axon Agent, one each for Windows and Unix platforms with support for multiple versions. <p> <i>Old discovery records will be closed, and new ones will be opened.</i></p>	10.0.9.0
Clean-up of Adobe CC suite	<p>Discovery mechanism of Adobe CC products was improved. Definition source was corrected to HCL for some products. Versions were removed from component names. Improved discovery for:</p> <ol style="list-style-type: none"> 1. Adobe Premiere Pro CC 2. Adobe Bridge CC 3. Adobe Premiere Rush CC 4. Adobe Dimension CC 5. Adobe Extension Manager CC 6. Adobe Edge Code CC 7. Adobe Edge Inspect CC <p> <i>Old discovery records will be closed, and new ones will be opened.</i></p>	10.0.9.0
Definition source corrected to HCL for Adobe products.	<p>Definition source was corrected on product, version, release, component and signature view to HCL or IBM Internal Development for Adobe products which have discovery created by HCL. This is catalog definition property change without impact on the discovery.</p>	10.0.9.0
New discovery for IBM Semeru Products	<p>Added discovery for:</p> <ul style="list-style-type: none"> ● IBM Semeru JDK Open Edition: <ul style="list-style-type: none"> ○ Platforms: Windows and UNIX ○ Versions: 8.0, 11.0, 16.0, 17.0, 18.0 ● IBM Semeru JRE Open Edition: <ul style="list-style-type: none"> ○ Platforms: Windows and UNIX ○ Versions: 8.0, 11.0, 16.0, 17.0, 18.0 ● IBM Semeru JDK Certified Edition: <ul style="list-style-type: none"> ○ Platforms: UNIX ○ Versions: 11.0, 17.0 	10.0.9.0
Product name for Microsoft Visual Studio Test Professional	<p>The component name for “Microsoft Visual Studio Test Professional” was changed to “Visual Studio Test Professional” – now it aligns with the actual product name.</p>	10.0.9.0

shouldn't have "Microsoft" in the name	 <i>Old discovery records will be closed, and new ones will be opened.</i>	
Updated component version for Microsoft Visual Studio Express for Web	The component version '12.0 Update 5' was changed to '12.0' for Microsoft Visual Studio Express for Web  <i>Old discovery records will be closed, and new ones will be opened.</i>	10.0.9.0
End of Support information refresh for Microsoft	The end of support date was updated for 24 Microsoft components and added for 34 more components.	10.0.9.0
End of Support information refresh for IBM	EOS information has been updated to the latest available version (in line with ILMT components v 9.2.27)	10.0.9.0
Software Data Harvesting Tool: Changed content of uninstall packages.	Software Data Harvesting Tool now collects the full MSI Install Location file path instead of folder path only	10.0.9.0
Software Data Harvesting Tool: Shortcut Scanner can now handle custom paths for Desktop and Startup menu.	The shortcuts scanner now uses Windows registry to get the Desktop, Start Menu, Programs and Startup folders. This data is collected for all the users.	10.0.9.0
Software Data Harvesting Tool: Harvesting tool now filters out shortcuts with names containing hostnames	Hostnames are masked in the Shortcut names. If there is a possibility that the shortcut name contains a username, then data is not collected for that shortcut.	10.0.9.0
Software Data Harvesting Tool: Collect uninstall registry entries of applications installed per-user	Windows Uninstall Registry for every user is scanned now to collect package data for installed applications.	10.0.9.0
VM Manager Tool, SAP Tool: install/upgrade fixlet support for migration of keystores from JCEKS to PKCS12.	When upgrading from version prior to 10.0.8.0 the keystores are automatically converted to the new format.	10.0.9.0
Cloud Adapter, Scanner Service: support for migration of keystores from JCEKS to PKCS12.	When upgrading from version prior to 10.0.8.0 keystore must be migrated manually using keystore migration tool. For details regarding the procedure refer to containers documentation	10.0.9.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.9.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.27 for IBM Virtualization Capacity reporting. The update covers IBM subcapacity calculation, IBM Catalog, PVU and Scanner parity.	10.0.9.0

	For status of IBM validated releases see following BFI FAQ Document .	
IBM Java Semeru Runtime Open Edition for BigFix Inventory tools	The following Inventory tools have a new Java Runtime Environment: VM Manager Tool, SAP Tool, Cloud Adapter, Scanner Service	10.0.9.0
Clear Corrupted Scanner Installation fixlet enhancement	Fixlet now detects corrupted catalog_version.info file, which prevents catalog update action from succeeding.	10.0.9.0

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
BI-9838	Import fails after update from 9.2.16 when detected isotag signature has changed in software catalog. Error in logs: Java::ComIbmDb2JccAm::SQLException: An error occurred in a triggered SQL statement in trigger "SAM.SOFTWARE_COMPONENTS_TRIGG".	Issue is fixed	10.0.9.0
BI-10180	Generated error message on Server Settings panel contains punctuation errors.	Error messages displayed on UI have been corrected.	10.0.9.0
BI-9857	Catalog customization allows to rename a product to a name which is already used by the same publisher.	An error message is displayed that the product name is already used.	10.0.9.0
KB0097450	There is a red 'X' mark next to signature discovery explanation for positive past CIT detection.	There is a yellow '!' mark showing a potential scan issue, with explanation on next steps.	10.0.9.0
KB0097416	Warning in IsotagRule step of Data Import - 'Could not save ActiveModel'	Improved handling of ISO files with empty publisher. Messages displayed are clearer.	10.0.9.0
KB0072863	Incorrect interpretation of template signatures by BigFix Inventory server may lead to multiple product discovery	Complex template signatures are handled correctly.	10.0.9.0
BI-10321	Drill down to the Software Classification is not adjusted to reporting period for Install Seats metric in All Metrics and Product Metrics per Group reports.	Reporting period of the Software Classification report is the same as in the All Metrics and Product Metrics per Group reports	10.0.9.0
BI-9984	Mac OS signatures always display "Has Usage" set to "Yes" even if signature couldn't provide such information	Usage information is corrected.	10.0.9.0

BI-10260	The Package Summary report shows computers for which a user has no permission to access.	Fixed by listing only the computers which the user has access to.	10.0.9.0
KB0098523	Contract reporting does not take into account different computer group aggregation periods	Every Data Import refresh of view sam.current_metric_values uses proper aggregation period for computer group	10.0.9.0
BI-10875	Import from BigFix 9.5.4 fails when the BigFix was not available during previous import	BigFix DataSource version is not cached in case of issue with accessing datasource.	10.0.9.0
KB0098658	When BFI server is being started when its database is not available, BFI may not be available	BigFix Inventory Server initialization waits indefinitely until database is available	10.0.9.0
BI-10655	SLM tags for template component can cause failure of InsertForNewSlmTags import step	SLM tags for template component do not cause import failure anymore	10.0.9.0
KB0095262	Cannot delete SSO configuration	Skipping deletion of <samlWebSso20> tag no longer causes an error when deleting SAML SSO configuration	10.0.9.0
KB0098526	Unable to remove computer property even if not used	The issue has been fixed	10.0.9.0
BI-10997	<p>1. Enabling debug logs for tema was enabling debug logs for import as well</p> <p>2. Only commented - DTEMA_LOG_DEBUG parameter in jvm.options was making debug logs for tema disabled. Any other value of the parameter either if it was 'false' or anything else was making debug logs for tema enabled</p> <p>3. Description of a setting "Enable debug level logging during data imports" in Advanced Server Settings wasn't describing what "default logging level" is</p>	<ul style="list-style-type: none"> Enabling debug logs for tema is not enabling debug logs for import anymore DTEMA_LOG_DEBUG parameter accepts only 2 values - 'true' and 'false'. Any other value will be rejected. Commenting the parameter works as a false. Description of what "default logging level" means in imports has been added under the setting 	10.0.9.0
KB0098382	Old scan file data not removed leading false-positive discoveries	The issue has been fixed	10.0.9.0
KB0098905	Clusters API /api/sam/clusters returns both deleted and inactive	Data from deleted VM Managers is not shown. Added	10.0.9.0

	VM Managers with no information which are active, creating confusion.	ability to filter by and display VM Manager status.	
KB0098416	Data import failing with message "The update count value is out of range."	Added a new hidden/opt-in feature for regular pruning of historical data. In advanced server settings, the maximum_data_lifetime parameter is set by default to 0 (disabled). With enabled feature historical entries closed before defined number of days are removed completely from the BFI. This improves the overall performance of future data imports.	10.0.9.0
KB0098413	Modification of product's default metric assignment reverts after import.	The issue has been fixed.	10.0.9.0
BI-8457	React-UI Patronus Defect Fixes	<ol style="list-style-type: none"> 1. Ctrl + A selection shortcut works in number inputs in Edit Contract dialog 2. Date Selector does allow to translate "Select Month" and "Select Year" labels 3. Date Selector – Correct month shown after selecting a month with less days than currently selected day of a month 	10.0.9.0
BI-10871	Custom rules are not applied in some cases	Import now applies custom rules also for discoveries found in current import, not only previous successful import process.	10.0.9.0
KB0098863	BFI Server Installer. Keystore file "key_bfi_db.jks" is not converted during upgrade	Keystore for the Database certificate is preserved and converted when needed during upgrade.	10.0.9.0
KB0098383	The upgrade to BFI 10.0.8.0 fails because of additional SSL tags in server.xml: Exception:Unexpected number of the <ssl> tags in server.xml	All found <ssl> are processed during the upgrade of the BFI server.	10.0.9.0





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
KB0093801	Missing UUID for Solaris 11 VMs on VMWARE	Improved reading SMBIOS data on this setup.	10.0.9.0
-	Using CIT 9.2.25 import of HW scan fails because physical Hyper-V boxes are treated as VMs., Physical Hyper-V boxes are incorrectly recognized as VirtualMachineGuest group is being included in the HW scan output.	Regression introduced 9.2.25 Physical Hyper-V boxes are correctly recognized.	10.0.9.0

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-11155	VM Manager Tool produces misleading logs	When VM Manager Tool connects to a Hyper-V instance, logs on INFO level will be more readable, explaining that different protocols are checked. Logs on DEBUG level will contain details when a protocol does not work.	10.0.9.0

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
BI-10414	There were 3 duplicated Microfocus publishers. (Micro Focus Ltd., Micro Focus (NetManage) and Micro Focus International Limited)	<p>Duplicated publishers were deleted, and products assigned to them were moved to correct Microfocus publisher.</p> <p> <i>Old discovery records will be closed, and new ones will be opened.</i></p>	10.0.9.0
KB0098728	The "LMTOOLS Utility" component was wrongly discovered with Adobe as publisher.	"LMTOOLS Utility" is embedded software and shouldn't be detected, discovery was removed.	10.0.9.0
BI-11643	Oracle Database and Oracle Database Client 18, 19 and 21 components had version number with ".0" added but shouldn't because they report release in the detailed version.	<p>Version numbers were corrected.</p> <p> <i>Old discovery records will be closed, and new ones will be opened.</i></p>	10.0.9.0
KB0099114	Microsoft Visio and Project versions 2019 and 2021 had no usage capability after change of the discovery mechanism.	<p>Enhanced way of discovery to have usage capability for 9 components:</p> <ul style="list-style-type: none"> • Microsoft Project Professional 2019 • Microsoft Project Professional 2021 • Microsoft Project Standard 2019 • Microsoft Project Standard 2021 • Microsoft Visio for Microsoft 365 • Microsoft Visio Professional 2019 • Microsoft Visio Professional 2021 • Microsoft Visio Standard 2019 • Microsoft Visio Standard 2021 • Microsoft Visio for Microsoft 365 <p> <i>Discovery will disappear until the next scan and data import. Catalog propagation to endpoints is required.</i></p> <p> <i>Old discovery records will be closed, and new ones will be opened.</i></p>	10.0.9.0

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
KB0098299	Get Oracle features fixlet failing to read ORACLE home and SID	Issue is fixed	10.0.9.0
KB0098415	Run Capacity Scan and Upload Results fails with exit code 0	The issue is fixed. Now the setting capacityNewFile is assigned only once.	10.0.9.0
KB0097418	Filtering of App Usage from endpoint is insufficient. After deleting an executable file of a running application, the process name in collected usage data has unwanted “(deleted)” suffix.	Applications with deleted executable file are excluded from usage collection.	10.0.9.0
BI-11130	Clear Scanner Installation fixlet was failing when cit.ini was empty or unreadable	Issue is fixed	10.0.9.0
KB0098714	Initiate Software Scan fails on Sun OS v5.10 client due to failing relevance	Issue is fixed	10.0.9.0
KB0098639	Issue with docker scan cache cleaner fixlet: BigFix Inventory Scanners do not seem to clean-up after themselves with regards to Docker container discoveries	Created a new fixlet: ‘Clear cache to force rescan of Docker containers during next Software Scan’	10.0.9.0
KB0099155	CPU spikes during capacity scan	Created KB0099155 about controlling CPU usage by BigFix Client and BigFix Inventory scans. Improved setting Client Properties and enforcing lower process priority on non-Windows endpoints in Run Capacity Scan and Upload Results fixlet	10.0.9.0

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

ID	Symptoms	Behavior after the update	Available since
KB0097891	Mistake in docs regarding key generation	Updated the command with “-aes256 2048” in the private key. Doc link: Creating private keys and certificates	10.0.9.0
KB0099289	No information about computer_group_id filter limitation in Retrieval of hardware inventory (v2)	Removed the parameter, computer_group_id from the document as this is an internally used column Doc link: <ul style="list-style-type: none"> • Retrieval of hardware inventory (v2) • Retrieval of software inventory (v2) 	10.0.9.0
KB0098857	Contract documentation incorrect and confusing	Added precise information about CSV file encoding and content requirements in contracts import page. Doc link: Importing contracts using CSV files	10.0.9.0

BigFix Inventory Server API changes

- Historical API /api/sam/software_instances is now based on new software installations instead of the deprecated ones. The meaning of columns deleted, id, software_fact_id and underlying data model is changed.
It is recommended to use the new API api/sam/v2/software_instances (no changes in it).
- Disconnected scanner upload API (/api/upload_scan REST API) reports in case of success HTTP code 204 instead of 200.
- The api/sam/v2/license_usage is extended with information about ratio that is applied to convert product license metrics to license metrics of the FlexPoint bundle or Cloud Pak to which the product is assigned. New columns available: product_bundle_ratio_divider, product_bundle_ratio_factor.
- The computer_hardware association is extended with information about the hardware architecture. New column available: platform
- KB0098905 Clusters API /api/sam/clusters: data from deleted VM Managers is not shown. Added ability to filter by and display VM Manager status.

Removed Data Import steps

As part of “Removal of deprecated features and panels” also following Data Import steps were removed:

- SAM::ContractFact.before_snapshot
- SAM::Contract
- SAM::SoftwareFact
- SAM::SoftwareFactHierarchy
- SAM::SoftwareFactHierarchyPivot
- SAM::ComputerGroupCatalogHierarchy
- SAM::ContractDimension
- SAM::ContractFact
- SAM::ComputerGroupDiscoverableRollup
- SAM::ComputerGroupCatalogHierarchyRollup
- SAM::ComputerGroupUnmatchedFile

After upgrade they will no longer contribute to data import duration resulting in shorter Data Import time.

Sum of the execution time of the above steps gives the import time improvement after upgrade.

Security enhancements and libraries updated

- IBM Java Runtime updated to version 8.0.7.6 (CVE-2021-35550) for the BigFix Inventory server
- IBM WebSphere Liberty updated to version 22.0.0.6 (CVE-2022-22475)
- Moment.js library updated to version 2.29.2 (CVE-2022-24785)
- Rack gem upgraded to 2.2.3.1 (CVE-2022-30122)
- InstallAnywhere 2014 SP1 upgraded to 2021 SP2
- Patronus React library is updated to version 2.7.1.

VM Manager Tool version and changes

The VM Manager Tool version that is used with this update is 10.0.9.0.

Scanner version and changes

The scanner version that is used with this update is 9.2.27.1000 for Windows and 9.2.27.0000 for other platforms. The disconnected scanner version that is used with this update is 10.0.9.0 and 9.2.27.0 for IBM I.

Supported new systems and hypervisors

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

- Ubuntu 18 and Ubuntu 20 on zSystems by using the disconnected scanner
- Windows Server 2022 Hyper-V feature
- VMware Cloud on AWS

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