

BigFix Inventory 10.0.11.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.11.0.

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	157	Yes
BigFix Inventory Software Catalog (main version)	10.0.11.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638755	Yes
BigFix Inventory Server	10.0.11.0	Yes
BigFix Inventory Server: ILMT Core library	9.2.29.0	Yes
BigFix Inventory Server: ILMT Catalog	9.2.29.0	Yes
BigFix Inventory Scanner	9.2.29.1000 on Windows 9.2.29.0000 on other platforms	Yes Yes
BigFix Inventory Disconnected Scanner (incl. package for Containers)	10.0.11.0 9.2.29.0 on IBM I	Yes Yes
BigFix Inventory VM Manager Tool	10.0.11.0	Yes
SAP Metric Data Collector	10.0.11.0	Yes
BigFix Inventory Image Scanner Script	10.0.11.0	Yes
BigFix Inventory Scanner Service	10.0.11.0	Yes
BigFix Inventory Cloud Adapter	10.0.11.0	Yes
Software Data Harvesting Tool for BigFix Inventory	1.1	No
BigFix Inventory Keystore Migration Tool	1.0	No

Allowed upgrade path

It is recommended to upgrade BigFix Inventory frequently to benefit from new features and security fixes. Please plan at least one upgrade per year.

Starting from 10.0.10.0 release, to ensure smooth upgrade process, support is provided for direct upgrade from the last 8 server releases. The minimal version for direct upgrade path is increased with every release.

Depending on the version number, one or more update steps are necessary. The minimal version for direct upgrade path is **10.0.3.0**. For versions up to 10.0.1.0 (inclusive), upgrade first to 10.0.2.0 then upgrade to 10.0.10.0 using *Upgrade to interim version* fixlets.

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

Changes to supported systems

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

- AIX 7.3
- Red Hat Enterprise Linux 9
- Ubuntu 22.04
- KDDI Cloud for Linux
- Solaris 10*

*Solaris 10 is still supported by BigFix Inventory with the use of BigFix Platform Agent 9.5 on both BigFix Platform 9.5 and 10. IBM has discontinued Solaris 10 as IBM sub capacity eligible platform. Please use actions, such as 'Initiate Software Scan' from this release as it includes improved support for handling Solaris package manager combinations.

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

Changes to contracts management

This release offers additional enhancements for contracts management.

- A new *Product Metrics per Contract* panel is available using the drill-down option from Products column in the *All Contracts* panel.
- A recalculation option is available in the *All Contracts* panel to quickly recalculate metric value in case there are changes in contract definition. For contracts that require recalculation, a special icon is displayed.
- Support for a new metric **Microsoft SQL Server Physical Processor Cores** in line with the latest Microsoft product terms. This new metric is calculated once the contract is defined to provide SAM with full control for the specific group and contract it is needed. Enabling license usage calculation on computer group definition to calculate this metric is no longer required. This new metric is managed through contract definition and due to this reason, its value is not presented in the *All Metrics* panel.

Note: *Thanks to the contract definition, the current metric value for this metric is calculated based on recent data. In terms of All Metrics, the calculation is available by default for 90 days period (depending on computer group definition). Newly supported metrics and selected existing metrics will use this new mechanism in future releases.*

- A quick link to *All Contracts* is available from *All Metrics* originated reports.
- A hands-on contract management tutorial is available in the product documentation under [Contracts management](#).

For the complete list of changes see, [Enhancements and important changes](#) section and items starting from [Contract Management].

Note:

1. Managing contracts through custom fields on the *All Metrics* panel will be deprecated in future.
2. IBM Flexpoint bundles and IBM Cloud Packs are still not supported by *All Contracts*.
3. *Product Metrics per Group* report is still available from the main menu to allow reporting of highwater mark metrics with split per computer group.
4. For 'Recalculation' details see the 'Recalculation button' topic in the [Enhancements and important changes](#) section.

Extended Oracle Database Features Discovery

Reporting covers Oracle pluggable databases and additional licensable options including Tuning Pack, Oracle Database Lifecycle Management Pack, Data Masking and Subsetting Pack.

Improved support for Oracle Database 11, old versions of UNIX devices (Solaris & AIX) and extended list of return codes for troubleshooting.

For the complete list of changes see [Enhancements and important changes](#) section and items related to Oracle Database.

Note: Extended discovery is available with use of *Get Oracle Features* fixlet. For details, refer to [Extended discovery of Oracle Database](#).

Included Software Catalog

This release includes Software Catalog version 10.0.11.0 with capability to discover 170+ new software versions including but not limited to the following software manufacturers: Adobe, Autodesk, Cisco, Citrix, McAfee, Microsoft, Oracle, RED HAT, and VMware.

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_12.pdf

Modified content

The version number of the fixlet is: 10.0.11.0

The following fixlets were updated and should be run to install the latest versions of the specific components:

- Upgrade to the latest version of BigFix Inventory
- Update VM Manager Tool to version
- Update SAP Metric Data Collector
- Install VM Manager Tool
- Install SAP Metric Data Collector
- Install Additional VM Manager Tool
- Download the Disconnected Scanner Package for IBM i
- Download the Disconnected Scanner Package
- Download the BigFix Inventory Container Solution Packages
- Download BigFix Inventory
- Install or Upgrade Scanner in private mode on Windows
- Install or Upgrade Scanner
- Software Catalog Update (*if BFI is not upgraded*)
- Download PVU table (*if BFI is not upgraded*)
- Upgrade to the interim version 10.0.2.0 of BigFix Inventory (*translation correction*)
- Upgrade to the interim version 10.0.10.0 of BigFix Inventory (*adjusted applicability to follow minimal version for direct upgrade to current version*)

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

The following fixlets were updated or added:

- Get Oracle Features
- Get Oracle Concurrent Sessions Number
- Identify Computers on Public Clouds
- Analyze the Relevance of a Fixlet or Task
- Force Reupload of Software Scan Results

Enhancements and important changes

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

Abstract Story	Description	Available since
[Contracts management] New recalculation button added to All Contracts	<p>Added a new 'Recalculate' button in the <i>All Contracts</i> panel, which is available when one or more contracts require recalculation as per one of the following scenarios:</p> <ul style="list-style-type: none">• Contract has been changed• Contract has been added or imported• Product list or computer group have been modified in a Contract <p>Note: There is no information about progress of recalculation on the <i>All Contracts</i> panel. However, the content of the panel will be refreshed when the recalculation is complete.</p> <p>Note: When a new computer group is added, BigFix Inventory requires another Data Import to correctly calculate the existing contracts.</p> <p>Note: In case of any changes on the <i>Software Classification</i> panel, such as exclusion or reassignment, data needs to be recalculated from the <i>All Metrics</i> panel for a given Computer Group, or by a manual or scheduled Data Import. Otherwise, 'Recalculation Pending' indicator may be visible on the <i>All Contracts</i> panel.</p>	10.0.11.0

<p>[Contracts management] New Product Metrics per Contract panel</p>	<p>The <i>Product Metrics per Group</i> panel has been replaced with <i>Product Metrics per Contract</i> which can be accessed by clicking on corresponding Products on the <i>All Contracts</i> report.</p> <p>The new panel shows current metric values for each product that is assigned to a particular contract. The panel is also enhanced by an additional column 'Recalculation Pending' which reflects the status of recalculation (applicable to all metrics), and 'Is Incomplete' column which indicates that the metric quantity might not be calculated correctly, because hardware inventory data from at least one computer is not complete (currently applicable only to Microsoft SQL Server Physical Processor Cores Metric).</p> <p>Depending on the type of a given metric, clicking on a selected Product Name redirects users to <i>Software Classification</i> panel or <i>All Metrics</i> panel. This report lists all the software instances used for the calculation of this metric.</p> <p>Note: The new panel does not provide the option to set a metric value for not calculated metrics. For this purpose, go to <i>All Metrics</i> panel.</p> <p>Note: Product name link might not open the target page properly when the local date of a computer where the web browser is used is different than the current date in UTC. The link can be opened after changing the time zone of a computer with the web browser to a time zone with the same local date as current date in UTC.</p>	<p>10.0.11.0</p>
<p>[Contracts management] All Contracts panel changes</p>	<p>Starting from this release, the column Current Measured Value displays 'n/a' only if a metric is not calculated by BigFix Inventory or if there are no products added to the Contract. In any other case, it displays a number.</p>	<p>10.0.11.0</p>

<p>[Contracts management] New Metric Microsoft SQL Server Physical Cores</p>	<p>Added a new metric 'Microsoft SQL Server Physical Cores' for the per core physical licensing model. The new metric is calculated as per data available for the given (current) day and follows the latest Microsoft SQL Server product terms.</p> <p>Microsoft SQL Server Product Terms: https://www.microsoft.com/licensing/terms/productoffering/SQLServer/</p> <p>Note: This metric is calculated only when there is a contract defined with this metric. Metric value is no longer visible from the <i>All Metrics</i> panel.</p>	<p>10.0.11.0</p>
<p>All Metrics changes</p>	<p>The <i>All Metrics</i> report does not display Metric Quantity for the new metric 'Microsoft SQL Server Physical Cores'. In future, <i>All Metrics</i> panel will also not display it for all the metrics supported through contracts.</p> <p>For such metrics, the column Metric Quantity will display the text 'Calculated for Contract'. Users can easily go to <i>All Contracts</i> using the newly added 'Go to All Contracts' link displayed close to edit option.</p>	<p>10.0.11.0</p>
<p>Option to delete historical Computers and Software detections from database</p>	<p>Added a new option 'maximum_data_lifetime' to <i>Advanced Server Settings</i> which allows users to remove (from the database) computer and software detection records closed earlier than the specified number of days.</p> <p>The records being removed are distributed over multiple Data Imports. During a single Data Import there are not more than 10,000 computers and 50,000 software detections removed. This allows users to safely enable this option without a significant increase in Data Import time.</p> <p>Note: This option removes the data completely from the database. Before activation ensure that you have preserved copies of reports covering records in the past or complete database backup.</p>	<p>10.0.11.0</p>

<p>Oracle Database discovery improvements</p>	<p>Support for Oracle pluggable databases (CDB/PDB) discovery and reporting of their licensable options.</p> <p>Improved discovery of the following licensable options:</p> <ul style="list-style-type: none"> • Tuning Pack / Potential use of Tuning Pack depending on found evidence • Oracle Database Lifecycle Management Pack is reported always as 'Potential use of Oracle Database Lifecycle Management Pack' • Data Masking and Subsetting Pack - Extended analysis of data from Oracle Enterprise Management Packs • Configuration Management Pack <p>Improved support for Oracle Database 11. Added Support to handle Oracle Database 19c and 21c.</p> <p>Report a legacy 'Database Configuration Pack' to help Software Asset Managers with managing licenses for Oracle Database Lifecycle Pack. This allows SAM to map this legacy option to Oracle Database Lifecycle Management Pack.</p>	<p>10.0.11.0</p>
<p>Oracle Database serviceability improvements</p>	<p>Improved error handling & reporting</p> <ul style="list-style-type: none"> • Provide feedback (return codes) to users of BigFix Inventory Extended Oracle Discovery on technical issues during scanning databases for example, due to Oracle databases being in a 'Mounted' state when license-relevant data is not available to be collected • Faster failing BigFix Inventory Oracle Discovery module on a computer where it is not possible to connect to Oracle Database • Description of return codes is included in the official BigFix Inventory documentation <p>Improved mechanism for applicability of BigFix Inventory Extended Oracle Discovery to be executed only on systems where an Oracle Database is running. If a custom site is used, propagation is needed to update the fixlet.</p> <p>Improved syntax compatibility with old versions of UNIX machines (Solaris & AIX).</p>	<p>10.0.11.0</p>

	<p>Improved handling of unknown users.</p> <p>Check if a database is running under a docker environment, with LDAP users, or in Solaris Zones, to exclude it from processing.</p> <p>Note: BigFix Agent should be installed in the same zone in which the Oracle Database process is executed.</p> <p>Increased timeout to 1 hour for processing Oracle licensing-related data on large databases.</p> <p>Improved performance in handling large databases.</p>	
IBM Virtualization Capacity reporting equivalent	<p>BigFix Inventory 10.0.11.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.29 for IBM Virtualization Capacity reporting.</p> <p>For status of IBM validated releases see following BFI FAQ Document.</p>	10.0.11.0
Updated PVU table	Updated Processor Value Unit (PVU) table to version 08/24/2022	10.0.11.0
End of Support information refresh for IBM	End of support information has been updated to the latest available version (in line with ILMT components v 9.2.29).	10.0.11.0
[Serviceability] Add rule matches output to mustgather.	Logs collected for 'Computer Support Data' now include rule match data in order to improve customer support	10.0.11.0
Additional interim upgrade fixlet	Added fixlet for interim upgrade to version 10.0.10.0 of BigFix Inventory server instances between version 10.0.2.0 (inclusive) and 10.0.3.0 (exclusive, the minimal version eligible for direct upgrade to latest release).	10.0.11.0
Improved static asset serving	Improved UI response time in BigFix Inventory thanks to the Cache-Control header. Assets are now served with 'Cache-Control' : 'private, max-age=36000'	10.0.11.0
Software defined with template signatures is available in BigFix Inventory before discovery	Software products, for which only template signatures are available, can be used in <i>All Contracts</i> , <i>Software Classification</i> , and <i>Product & Metrics</i> panels, even if they have not been discovered on any computer.	10.0.11.0

All template derived components are assigned to a single, generic product release	<p>Components discovered with template signatures are by default bundled to one product having '*' for the release number instead of numbers which related to auto-detected versions.</p> <p>Component version numbering remains the same.</p> <p>The change is applicable also to product_release column from <code>api/sam/v2/software_instances</code> REST API.</p> <p>It does not affect license calculations.</p>	10.0.11.0
Support for modification of a software defined with a template signature	Modification of a name and publisher of a software defined with a template signature in software catalog is propagated to software discovered with the template signature.	10.0.11.0
Support for modification of a template signature	Modification of a template signature in Software Catalog is propagated to software discovered with the template signature.	10.0.11.0
User friendly warning message while downloading Harvested Data for Harvester Tool	Added an improved and shortened warning message for better readability.	10.0.11.0
Hands-on documentation on Contracts Management in BigFix Inventory	Added a section to include the hands-on tutorial for contracts management. Doc link: Contracts management	10.0.11.0
Enhancement of Oracle Java Detection	Enhanced discovery of existing Oracle Java signature for versions 7,8,16 & 17 to cover non-standard installations.	10.0.11.0
Added discovery for Oracle Java	Added discovery for Oracle Java for versions 18 & 19. Discovery is added for WINDOWS & UNIX platforms.	10.0.11.0
Added discovery for SAS/OR	Added discovery for SAS/OR for version 9. Discovery is added for WINDOWS & UNIX platforms.	10.0.11.0
Added discovery for SAS/ETS	Added discovery for SAS/ETS for version 9. Discovery is added for WINDOWS & UNIX platforms.	10.0.11.0
Added discovery for SAS/IML	Added discovery for SAS/IML for version 9. Discovery is added for WINDOWS & UNIX platforms.	10.0.11.0

Added discovery for SAS/STAT	Added discovery for SAS/STAT for version 9. Discovery is added for WINDOWS & UNIX platforms.	10.0.11.0
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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
KB0101057	Update Schema runs for days when environment contains macOS devices.	Migration script has been reengineered to reduce duration to minutes.	10.0.11.0
KB0100847	Package Summary report failing to calculate.	The issue is fixed.	10.0.11.0
KB0101000	Arithmetic overflow error in Data Import log files on DB2.	Import step 'Processing of bundling tags' completes successfully. Affected only DB2 deployments.	10.0.11.0
KB0101628	BigFix Inventory Import fails - sam.instance_hash - SQL Arithmetic Overflow on MS SQL.	Import step 'InventoryBuilder' completes successfully. Affected only MS SQL deployments.	10.0.11.0
BI-13844	Empty publisher on HCL Inventory report.	HCL BigFix Inventory report is regenerated during upgrade so that the filter criteria are fixed. Limitation: Any report subscriptions or default report settings related to this report will be deleted during upgrade.	10.0.11.0
BI-11517	All Metrics reports shows only 500 records instead of the correct number of the records.	The issue is fixed.	10.0.11.0


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
KB0099621	Data encrypted on share disk using Guardium/Vormetric solution is recognized as local filesystem and, is therefore, scanned by default on every endpoint when such volume is mounted and decrypted. Scan of the remote disk multiple times from many endpoints might lead to unnecessary overload of such share disk.	Data encrypted on share disk using Guardium/Vormetric solution is recognized as shared drive.	10.0.11.0

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-11147	Hyper-V VMs with the same UUID and located on the same host are not detected as duplicates and only one of them is returned by the scan.	Hyper-V VMs with the same UUID and located on the same host are excluded from scan results and the VM Manager status is set to 'OK - duplicated UUIDs discarded'.	10.0.11.0

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
KB0101234	The software 'Snagit' was not being discovered due to incorrect package and file rules.	Snagit template signature updated to improve discovery. Also deleted the regular signatures of Snagit to avoid double discovery.  <i>Old discovery records will be closed, and new records will be opened.</i>	10.0.11.0
KB0101283	Lack of discovery for Red Hat JBoss Enterprise Application Platform.	Discovery is added for Red Hat JBoss Enterprise Application Platform, 6.4 to cover non-standard installations.	10.0.11.0

KB0101314	Adobe Acrobat components did not provide usage monitoring.	Discovery now provides usage monitoring for Adobe Acrobat components.	10.0.11.0
KB0101687	False positive discovery of SiteMinder Web Agent v6.0.	To provide better discovery moved the existing 'CA SiteMinder Web Agent' v6.0, v12.0 and v12.5 CIT signature to server-side signature.  <i>Old discovery records will be closed, and new records will be opened.</i>	10.0.11.0
BI-13474	Enhancement of Microsoft SQL Server Management Studio and Citrix XenDesktop detection.	Changed the way of detecting signature for Microsoft SQL Server Management Studio and Citrix XenDesktop and added new detection for Microsoft SQL Server Management Studio for version 18.12.  <i>Old discovery records will be closed, and new records will be opened.</i>	10.0.11.0

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
KB0099415	Get Oracle Features not scanning PDBs (pluggable databases)..	After the update, fixlet gathers and interprets data from pluggable databases.	10.0.11.0
KB0100567	Scan related fixlets not relevant on SunOS endpoints with no Image Packaging System (IPS).	Fixlets relevance is correctly evaluated.	10.0.11.0
KB0101246	User set _BESRelay_UploadManager_Clean upHours value resetting after executing some fixlets.	The issue is fixed.	10.0.11.0
BI-14163	The property 'Application Usage by Path' in 'Application Usage Statistics' analysis is not updated on Windows after running the Software Scan.	The issue is fixed.	10.0.11.0

Security enhancements

- SnakeYML (Snakeyaml.jar) updated to version 1.33 from 1.31 (CVE-2022-38752)
- WebSphere Liberty updated to version 22.0.0.11 (CVE-2022-34165)
- Spring Boot updated to version 2.7.5
- Spring Framework updated to version 5.3.23

VM Manager Tool version and changes

The VM Manager Tool version that is used with this update is 10.0.11.0.

Scanner version and changes

The scanner version that is used with this update is 9.2.29.1000 for Windows and 9.2.29.0000 for other platforms. The disconnected scanner version that is used with this update is 10.0.11.0 and 9.2.29.0 for IBM I.

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