

BigFix Inventory 10.0.1.0 Release Notes

This document provides information about the BigFix Inventory application update 10.0.1.0. 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	134	Yes
BigFix Inventory Software Catalog (main version)	10.0.1.0	Yes
BigFix Inventory Software Catalog (version on endpoint)	2638546	Yes
BigFix Inventory Server	10.0.1.0	Yes
BigFix Inventory Scanner	9.2.19.0000 9.2.19.1000 (Windows)	No Yes
BigFix Inventory Disconnected Scanner	10.0.1.0 9.2.19.0 (for IBM I)	Yes
BigFix Inventory VM Manager Tool	10.0.1.0	Yes
SAP Metric Data Collector	10.0.1.0	Yes

Included Software Catalog

This release includes Software Catalog version 10.0.1.0 that contains:

- IBM License Metric Tool Software Catalog version 9.2.19.0
- Discovery capability to collect evidence about usage of Oracle Java Commercial Features: 'Java Flight Recorder' and 'JRE Usage Tracking'.

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_06.pdf

Modified content

The version included in fixlet's name is: 10.0.1.0

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
- 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
- Get Oracle Concurrent Sessions Number
- Get Oracle Features

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

- Collect Detailed Hardware Information
- Configure File Checksum Collection
- Download IBM BigFix Inventory
- Identify Computers on Public Clouds
- Install Additional VM Manager Tool (OPTIONAL)
- Install SAP Metric Data Collector
- Install VM Manager Tool

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
Updated HCL Catalog	<p>New version of Catalog for enhanced software discovery.</p> <p>Discovery capability to collect evidence about usage of Oracle Java Commercial Features: 'Java Flight Recorder' and 'JRE Usage Tracking'.</p> <p>This discovery is intended to help customers to check usage of Java Commercial Features. The knowledge about usage of these features is needed for older Oracle Java commercial licenses that are applicable for Oracle Java before version 11.</p>	10.0.1.0

Package Data report data is updated with data from Solaris IPS package manager	Support for Solaris IPS package manager is available for endpoints with BigFix client installed.	10.0.1.0
Configurable limit of custom software classification rules	More custom software classification rules can be defined now to automate classification process. Provided ability to redefine limit on custom software classification rules using Advanced Server Settings panel. Supports up to 100 custom rules.	10.0.1.0
Enhanced API for Scanned File Data with additional properties for Windows executables	Collection of additional properties for Windows executables is optional feature that is disabled by default. This function is limited to 50 000 endpoints, has additional storage requirements and impact on data import time. Rollout to endpoints requires proper planning and verification before function is enabled.	10.0.1.0
The Software Summary report becomes an integral part of BigFix Inventory	The Software Summary report provides an overview of software inventory in your environment. Each row represents a set of software instances that are grouped by the selected columns. The report was introduced as a preview feature and improved over the past releases. It now becomes an integral part of BigFix Inventory.	10.0.1.0
User interface visual changes	User interface visual changes in line with HCL brand for login window	10.0.1.0
Updated scanner	New version of Scanner for Windows to allow collection of additional properties for Windows executables.	10.0.1.0
IBM Virtualization Capacity reporting equivalent	BigFix Inventory 10.0.1.0 is equivalent to IBM License Metric Tool (ILMT) 9.2.19 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	10.0.1.0
Enabler for reporting IBM Cloud Paks	BigFix Inventory reports information about utilization of license metrics by non-containerized products that are installed as part of IBM Cloud Paks.	10.0.1.0
Inventory Exploration report becomes deprecated.	Instead of the deprecated report, use the Software Summary report that provides extended information about your software inventory.	10.0.1.0

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			
KB0069306	Instructions for Discovering usage of Oracle Database features are incorrect. Reference to incorrect folder.	Documentation is corrected.	10.0.1.0
KB0074225	Missing platform check when using Docker scan.	Check added to the Initiate Software Scan fixlet for Docker scan support for Linux only.	10.0.1.0
KB0079766	Package Summary report calculation fails.	Package Summary report calculated properly.	10.0.1.0
KB0080092 IJ22881	Catalog import fails during merge step with IBM catalog.	Catalog import is successful.	10.0.1.0
KB0080339	"Invalid credentials - suspended" status on the VM Manager Panel.	Configuration to be used in special cases when communication between vmtool and hypervisor hangs (PowerShell integration only) due to network issues. Set <code>vmm_max_subsequent_log_in_failures to 0</code> in <code>vmmmainconf.properties</code> in order to avoid hard timeout.	10.0.1.0
KB0079609	On the VM Managers panel the following error occurs when DSA environment is detected. "Before you can configure VM managers, you must install and run the BigFix services, including Web Reports, on the %host}. Ensure also that the BigFix server user that is defined for the primary data source has sufficient rights. For more information, see the product documentation." All the VM Managers appear distributed.	Additional logic added to discard all root computers which are not seen for over a month, if multiple remain then the one with VM Man Tool installed is selected, in case there are more the one with the lower id is selected.	10.0.1.0

KB0079543	Degradation of response time on API Software Instances v2 on long running environments.	Improved response time on API Software Instances v2.	10.0.1.0
KB0079197	Get Oracle Features task failure in case of usernames with >8 characters.	Scenario with usernames with >8 characters is addressed.	10.0.1.0
KB0079191	Data import fails with the following error: SQL0433N Value is too long. SQLSTATE=22001	Data import is successful.	10.0.1.0
KB0078385	Run Capacity Scan fixlet fails when there are many scanfiles.	Run Capacity Scan is successful.	10.0.1.0
KB0078264	The old slmtagsearch files with old computer_id are kept and uploaded to the BigFix server upload sha1 directory.	When a computer gets a new computer ID the old slmtagsearch zip files are deleted on the endpoint.	10.0.1.0
KB0075611	Scanner triggering mounts of shares.	Protection mechanism was added to Initiate Software Scan to prevent exclusion without wildcard.	10.0.1.0
KB0077322	Error in assigning a part number that has been assigned in the past to a deleted custom product.	Part number can be assigned now to a different product.	10.0.1.0
KB0076885	Software not discovered when signature is added to an existing product created earlier in Products and Metrics.	Software is discovered.	10.0.1.0
KB0078402	Upgrade of BigFix Inventory database from DB2 10.x to DB2 11.5 fails with SQL0478N error on DBO.REPORTS table	During the upgrade database structure is adjusted like listed in KB and DB2 database instance upgrade is possible.	10.0.1.0
IJ16175	The Initiate Software Scan fixlet requires the pkgdb to work.	The requirement is removed.	10.0.1.0
IJ21733	Creation of the BigFix Inventory database fails on Windows due to compatibility issues even though the database compatibility level is correct. The following error is displayed. The database must have an SQL Server compatibility level of least 110 (it's currently 90). If you have migrated this database from an earlier version of SQL Server, you must update its compatibility level before it can be used.	The problem does not occur.	10.0.1.0
IJ21747	BigFix Inventory does not work and the following error is written in the tema.log file.	The problem does not occur.	10.0.1.0

	<pre>com.ibm.ws.webcontainer.webapp I SRVE0292I: Servlet Message - [tema]:.[FATAL] ActionView::Template::Error (Unknown error (SystemCallError) - Unknown Error (0) - /var/opt/IBM/LMT/ilmt/ wlp/usr/servers/server1/apps/te ma.war/WEB- INF/tmp/cache/A02/2C1/ views%2Fsoftware_installs_widge t_0_true_0_en%2F5887e2c04c98362 9206 d86835e34da4b) [...]</pre>		
IJ21800	<p>Update of the database schema fails due to invalid handling of existing indexes. The following error is visible in the tema.log file.</p> <pre>createOutputTable com.ibm.db2.jcc.am.SqlSyntaxErr orException: The name of the object to be created is identical to the existing name "AGGR.METRIC_OTHER_GR_1_IDX1" of type "INDEX".. SQLCODE=-601, SQLSTATE=42710, DRIVER=3.72.24</pre>	The problem does not occur.	10.0.1.0
IJ22183	<p>Documentation does not specify that HOSTID values on a local zone and its parent global zone must be the same in order to match the guest and host system. Otherwise, BigFix Inventory is unable to properly build virtualization structure information and the "No Host Scan Data" status is displayed for the guest system.</p>	Documentation is corrected.	10.0.1.0
IJ22221	<p>A user cannot generate the audit snapshot under the following circumstances:</p> <ul style="list-style-type: none"> • The user is not an Administrator • The user is assigned a role that allows for generating the audit snapshot • The user does not have a permission to view the Audit Trail 	The problem does not occur.	10.0.1.0

IJ22241	A disconnected data source cannot be created on a computer on which a custom computer property is defined.	The problem does not occur.	10.0.1.0
IJ22562	A KVM has the "No Data" status despite it was successfully scanned by the Run Capacity Scan on Virtualization Hosts fixlet. The problem occurs because the output of the virsh command does not show any guest systems even though they are present and active.	The problem does not occur.	10.0.1.0
IJ22782	Relevance 11 of the Initiate Software Scan fixlet returns the following error on Solaris. Singular expression refers to nonexistent object	The problem does not occur.	10.0.1.0
IJ23216	The VM Managers panel cannot be displayed because Web Reports are not running. However, only a general error message is displayed.	The error message is improved to indicate what is the cause of the problem.	10.0.1.0
IJ23221	When a software component was discovered in the past and later on it was removed from the software catalog, the information about the component becomes inconsistent. The BigFix Inventory database contains correct information. However, the Software Classification and the PVU Subcapacity reports provide incorrect information.	The problem does not occur.	10.0.1.0
IJ23369	Documentation provides incorrect description of the catalog_dimensions columns.	Documentation is corrected.	10.0.1.0
IJ22565	The "No VM Manager Data" status is displayed for virtual machines that are hosted on VMWare ESXi 6.7. The problem occurs because the UUID from a local/guest hardware scan does not match the value returned in vCenter. The initial three portions of the UUID appear to be mixed. As a result, BigFix Inventory cannot match VMs and calculate PVU values.	The problem does not occur.	10.0.1.0
BI-537	Signature description text misleading for software that is discovered with package data.	Signature description corrected.	10.0.1.0
BI-733	When BigFix server is configured to use backup server (BigFix DSA scenario), all the VM Managers appear distributed	The problem does not occur.	10.0.1.0

	after BigFix Inventory application upgrade.		
BI-454	When trying to access VM Managers management screen, if a data source isn't available it throws the following UI error: We are sorry, but something went wrong.	The problem does not occur.	10.0.1.0
BI-253	REST API filtering criteria of associated tables does not work.	Filtering criteria work properly.	10.0.1.0
BI-277	"Collecting utilization of SAP license metrics" not working properly, error in SAP tool log "Persistent ID is invalid".	The problem does not occur.	10.0.1.0
BI-711	Too restrictive version check prevent installation on supported editions of DB2 v11.5	Installation is successful.	10.0.1.0
BI-529	All Metrics - filters work incorrectly when comma or + is used in text filter criteria.	Filters work correctly.	10.0.1.0
BI-762	Catalog Search on the dashboard does not work after reinstalling BFI with the same database.	Catalog search works properly.	10.0.1.0
BI-1164	Data import fails with following error: One or more values in the INSERT statement, UPDATE statement, or foreign key update caused by a DELETE statement are not valid because the primary key, unique constraint or unique index identified by "2" constrains table "SAM.VERSIONS" from having duplicate values for the index key.. SQLCODE=-803, SQLSTATE=23505, DRIVER=3.72.24	Data import is successful.	10.0.1.0
196939	It is not possible to use the Airgap Tool in non-extraction mode because information about the e-mail address and license serial number that is needed for this procedure is not available to the user.	Documentation is updated to provide information on how to extract the information about the e-mail address and the serial number. For more information, see: Updating the content of the fixlet site on Linux and Updating the content of the fixlet site on Windows.	10.0.1.0
196937	The /usr/lpp folder is incorrectly excluded from the software scan.	The /usr/lpp folder is removed from the list of excluded directories. Software that is installed in this folder is correctly discovered.	10.0.1.0

196797	In very rare cases, the VM Managers panel does not show any existing VM entries because it treats the VM Manager Tool as deleted.	The problem does not occur.	10.0.1.0
196971	Serial number of the hypervisor missing in retrieveddebugdata output.	The -retrieveddebugdata command collects information about the serial number of the hypervisor.	10.0.1.0
Catalog updates			
KB0077313	BEA WebLogic Server v7 incorrect discovery.	Invalid signature is no longer in catalog to not cause incorrect discovery results.	10.0.1.0
KB0076466	Invalid signatures for Microsoft Project Server 2016/2019.	Invalid signatures is no longer in catalog.	10.0.1.0
KB0080084	Change component name from 'Microsoft ASP .NET' to 'Microsoft ASP .NET Core'.	New software name is visible in reports.	10.0.1.0

Security enhancements

To maintain security, selected components and libraries were updated.

- IBM Java JRE is updated to version: 8.0.6.5 - CVE-2019-4732, CVE-2020-2659, CVE-2020-2604, CVE-2020-2593, CVE-2020-2583
- WebSphere Application Server Liberty is upgraded to version 20.0.0.2 - CVE-2019-4720
- activeresource updated to v. 5.1.1 - CVE-2020-8151
- excon updated to v. 0.72.0 - updated bundled certificates, CVE-2019-16779
- json updated to v. 2.3.0-java - CVE-2020-10663
- rack updated to v. 2.1.3 - CVE-2020-8161, CVE-2020-8130, CVE-2019-16782
- websocket-extensions updated to v. 0.1.5 - CVE-2020-7663
- ant updated to v. 1.10.8 - CVE-2020-1945, CVE-2012-2098
- commons-codec updated to v. 1.14 - WS-2019-0379

VM Manager Tool version and changes

The version of the VM Manager Tool that is used with this application update is 10.0.1.0.

Scanner version and changes

The version of the scanner that is used with this update is 9.2.19.1000 for Windows and 9.2.19.0000 for other platforms.

The version of the disconnected scanner that is used with this update is 10.0.1.0. As an exception, the version for disconnected scanner for IBM I is 9.2.19.0.

Support for new systems and hypervisors

The following table lists new systems and hypervisors which are supported from this version.

Supported systems and hypervisors	Requirements
MS SQL 2016 Express	BigFix Inventory database
MS SQL 2017 Express	BigFix Inventory database
Citrix Hypervisor 8	
IBM i 7.4	Disconnected scanner
Oracle Compute Instance	

The following table lists systems and hypervisors for which support is discontinued from this version.

End of support for systems and hypervisors
Debian 7
IBM i 5.1
Oracle Solaris 10
Red Hat Enterprise Linux 5 on x86
Ubuntu 12 and 14
Windows Vista
Red Hat Virtualization 3.x
VMware vSphere 5.x
XenServer/ Citrix XenServer 6.x

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