

FlexNet Manager Suite 2015 R2

Release Notes

Update April 20, 2016

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Introduction

FlexNet Manager Suite provides software asset, hardware asset, and contract management for enterprises across 15,000 publishers and 150,000 applications. Reports detail installed software, application usage, and purchase versus installed license reconciliation. It inventories virtual environments and Oracle databases, imports Microsoft System Center Configuration Manager (SCCM) inventory, and seamlessly integrates with Enterprise Resource Planning (ERP), Human Resources (HR), and Purchase Order (PO) systems. With its built-in library of 700,000 Stock Keeping Units (SKUs) for automated PO to inventory reconciliation and support for the latest license models, FlexNet Manager Suite is used by enterprises to gain control of and optimize spend across their software estate.

These release notes contain information about FlexNet Manager Suite, covering:

- FlexNet Manager Platform
- FlexNet Manager for SAP Applications
- FlexNet Manager for Microsoft
- FlexNet Manager for Adobe
- FlexNet Manager for Symantec
- FlexNet Manager for IBM
- FlexNet Manager for Oracle
- FlexNet Manager for VMware

The following products in the suite have their own separate release notes:

- FlexNet Manager for Engineering Applications
- Workflow Manager

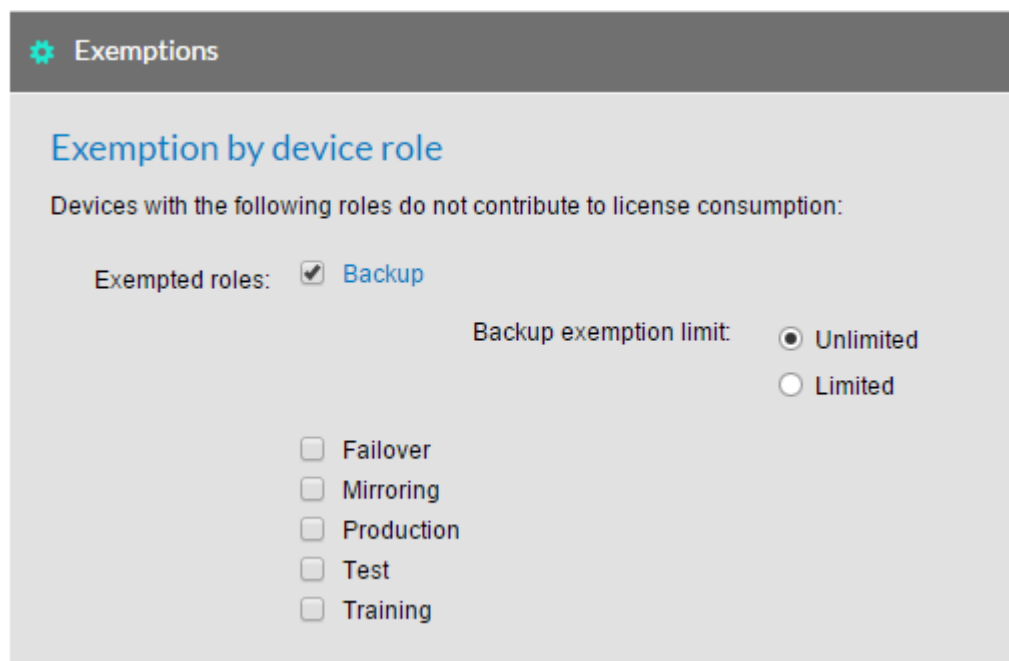
New Features

License Automation

FlexNet Manager Suite 2015 R2 includes the following new features in license management:

Exempt devices by role

The role of a device can be a reason for it to be exempt from consuming license entitlements. Configure these exemptions in a new **Exemptions** section in the **Use rights & rules** tab on licenses.



Exemptions

Exemption by device role

Devices with the following roles do not contribute to license consumption:

Exempted roles: ☒ Backup

Backup exemption limit: ☒ Unlimited ☐ Limited

☐ Failover
☐ Mirroring
☐ Production
☐ Test
☐ Training

The Product Use Rights Library will also configure exemption rules automatically at license creation time.

License reconcile will then automatically set an exemption reason for inventory devices with matching roles and will remove the exemption reasons for inventory devices that no longer match if exemption rules have changed.

This feature will not alter existing exemption reasons that were added manually.

See explanations where exemptions rules don't match the Flexera Software Product Use Rights Library in the **Recommended License Changes** page.

Inherit product use rights from contracts

Product use rights can be part of a contract; now these can be set in the properties of a contract to be inherited by licenses linked to the contract.

Control whether a contract grants product use rights to linked licenses from the new **Use rights & rules** tab on **Contract properties** pages.

See which licenses are inheriting rights from contracts on the **Licenses** tab of a contract.

See which use rights are inherited from a contract from the **Use rights & rules** tab on a license. A checkbox on each right indicates whether it is being inherited from a contract.

Understand when inherited rights on a license have diverged from the Product Use Rights Library and see recommendations to remedy these situations in the **Recommended License Changes** page.

Contract Properties Microsoft Office

Contract type: General

Product use rights & rules [Expand all](#) / [Collapse all](#)

☒ **License consumption rules**

These rules set whether license entitlements will be consumed because of installations, allocation, access or usage. Access and usage are used for application virtualization and desktop virtualization technologies.

Installations always consume license entitlements.

☐ This contract grants license consumption rules to linked licenses

☐ Allocations consume license entitlements

☐ Access granted to users, or usage, consumes license entitlements

☒ **Upgrade rights**

☒ **Downgrade rights**

☒ **Right of second use**

☒ **Right of multiple use**

☒ **Rights on virtual machines and hosts**

☒ **Processor limits**

☒ **License mobility rights**

General

Ownership

Vendors

Assets

Purchases

Licenses

Use rights & rules

Responsibilities

Payment schedules

Terms and conditions

Documents

History

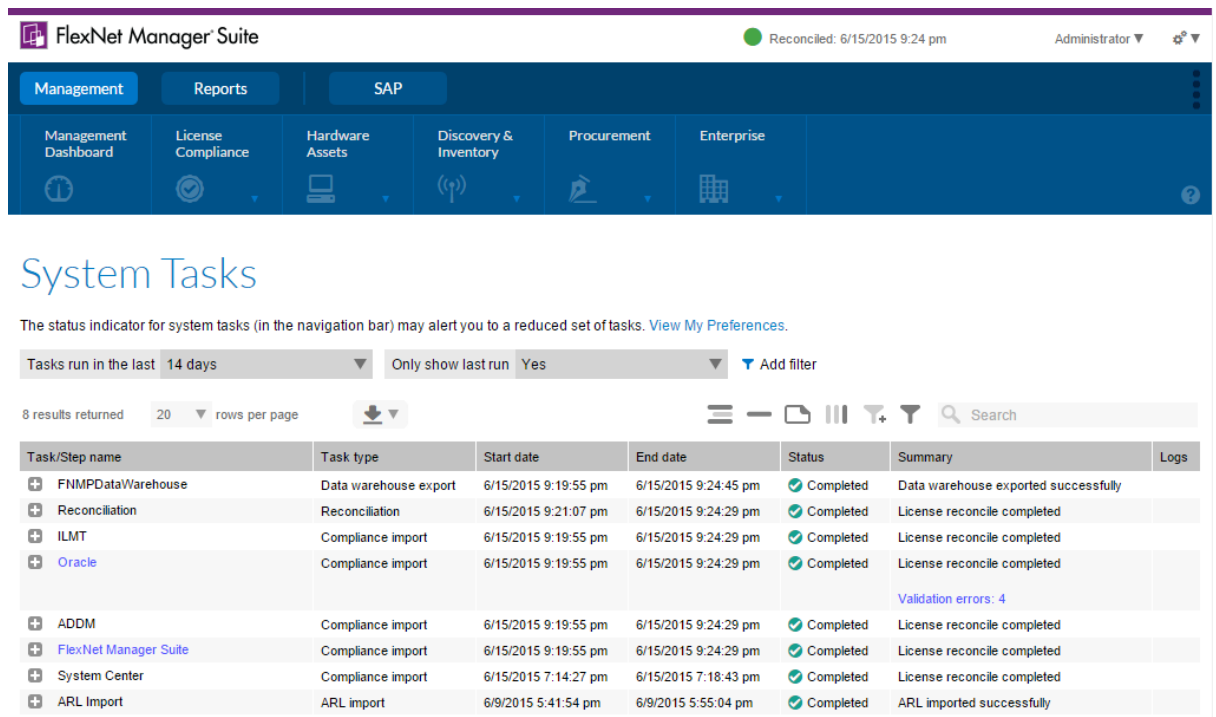
Save

Close

Monitoring

FlexNet Manager Suite 2015 R2 includes the following new features to assist with monitoring and understanding system status:

System Tasks



The status indicator for system tasks (in the navigation bar) may alert you to a reduced set of tasks. [View My Preferences.](#)

Tasks run in the last **14 days** Only show last run **Yes** [Add filter](#)

8 results returned 20 rows per page

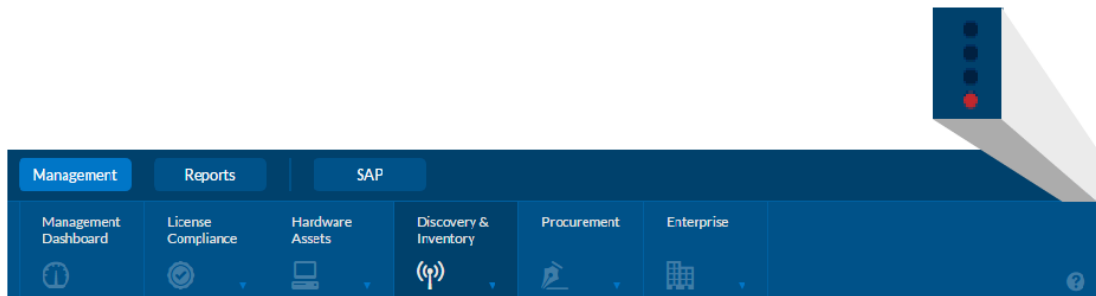
Task/Step name	Task type	Start date	End date	Status	Summary	Logs
+ FNMPDataWarehouse	Data warehouse export	6/15/2015 9:19:55 pm	6/15/2015 9:24:45 pm	Completed	Data warehouse exported successfully	
+ Reconciliation	Reconciliation	6/15/2015 9:21:07 pm	6/15/2015 9:24:29 pm	Completed	License reconcile completed	
+ ILMT	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	Completed	License reconcile completed	
+ Oracle	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	Completed	License reconcile completed	
					Validation errors: 4	
+ ADDM	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	Completed	License reconcile completed	
+ FlexNet Manager Suite	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	Completed	License reconcile completed	
+ System Center	Compliance import	6/15/2015 7:14:27 pm	6/15/2015 7:18:43 pm	Completed	License reconcile completed	
+ ARL Import	ARL import	6/9/2015 5:41:54 pm	6/9/2015 5:55:04 pm	Completed	ARL imported successfully	

An overview of what FlexNet Manager Suite is doing and the status of each item is essential to the smooth management of the suite. Now these can be seen in one place in the new **System Tasks** page.

System Tasks shows status, summary information and detailed error logs for the following task types:

- Business data imports
- Inventory data imports
- Discovery and inventory rules execution
- Enterprise group one-off uploads
- Purchase order one-off uploads
- Reconciliation
- SAP consumption data imports
- User assignment one-off uploads
- Data warehouse exports (high level status reporting only)
- ARL imports on single tenant systems (high level status reporting only)

System tasks indicator



Be made aware of any errors or failures and know if there are tasks currently running by an indicator that can be seen from any page.

Adjust settings in **My Preferences** to be alerted only to the status tasks you care about.

Status of discovery and inventory rules

View the status of rules in the **Rules** tab of the **Discovery and Inventory Rules** page. Expand a discovery or inventory rule to view the status and results of each action defined in that rule. This information is available as totals for completed runs of a rule and partial results while a rule is running.

Name	Service discovered	Inventory completed	Inventory skipped	Inventory failed
Oracle database inventory	0	200,000	0	0
Oracle VM inventory	0	0	0	0

A drill through to execution summary of each rule run is available from **Task status** and history section of **Rules** page or from **System tasks** page:

FlexNet Manager Suite FLEXERA Software - TestTenant-1

Management Reports SAP

Management Dashboard License Compliance Hardware Assets Discovery & Inventory Procurement Enterprise

Rule Execution Details

Status and additional information about rule execution

Status is Select a value

2 results returned 20 rows

Beacon name	IP address	Device name	Rule name	Task type	Start date	End date	Status	Summary
sun155	172.26.82.167	arvarunx32	ora11gLinux	Inventory	6/4/2015 7:48:41 pm	6/4/2015 7:49:34 pm	Success	This device is targeted for adoption. Inventory is collected on the schedule for the locally-installed
sun155	172.26.82.167	arvarunx32	ora11gLinux	Adoption	6/4/2015 7:48:41 pm	6/4/2015 7:49:34 pm	Success	The adoption process is skipped for this device because the device is already managed by invent

Get visibility into the outcomes of rules as applied to a single device on the **All Discovered Devices** page by adding the new **Rule results** column to the grid.

All Discovered Devices These devices have been found on your networks.

IP address Add filter

Delete

273 results returned 20 rows per page

Choose columns

- Virtualization port
- Rule results
- Adoption
- Adoption date
- Citrix XenDesktop discovery
- Citrix XenDesktop discovery da

Applicable rules Create a

Discovered device properties					Rule results					
Name	IP address	Site	Domain name	Operating system	VMware discovery	VMware discovery date	VMware inventory	VMware inventory date	Remote inventory	Remote inventory date
(none)	10.200.21.51	Melb			Not configured					
MELSEP	10.200.21.34	Melb	ACRESSO		Not configured					
MELFTP01	10.200.21.11	Melb	ACRESSO		Not configured					
MELSCCM	10.200.21.14	Melb	ACRESSO		Not configured					
MELFILERO1	10.200.21.16	Melb	ACRESSO		Not configured					
F501C	10.200.21.10	Melb	WIN-MQ5FT-COM		Not configured					

Choose columns

- Virtualization port
- Rule results
- Adoption
- Adoption date
- Citrix XenDesktop discovery
- Citrix XenDesktop discovery da

Rule results		
VMware discovery	VMware discovery date	VMware inventory
All		All
Not configured		
Not configured		
Not configured		

Types of discovery and inventory include: Oracle databases, Oracle VM infrastructure, Hyper-V, SQL Server and XenDesktop environments.

Status of imports

View the status and history of inventory and business imports in **Data Inputs**, including summaries of what data has been imported with links to detailed validation errors. This information is available for all imports created on the beacon, or via one-off uploads performed from the **Data Inputs** pages.

Last completed import

🕒 Last run: 6/15/2015 9:19:55 pm

Results

Validation errors: 0
Devices read from source: 0
Devices imported: 0
Devices merged: 0
Reconciled: Yes

Status

✅ Completed
Duration: 20s

[Show/hide task status and history](#)

[View more in System Tasks](#)

Task status and history

5 results returned 20 rows per page

Task/Step name	Start date	End date	Status	Summary	Logs
+ FlexNet Manager Suite	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	
+ FlexNet Manager Suite	6/15/2015 9:11:52 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	
+ FlexNet Manager Suite	6/15/2015 5:42:46 pm	6/15/2015 5:46:34 pm	✅ Completed	License reconcile completed	
+ FlexNet Manager Suite	6/15/2015 5:23:00 pm	6/15/2015 5:26:49 pm	✅ Completed	License reconcile completed	
+ FlexNet Manager Suite	6/15/2015 4:21:39 pm	6/15/2015 4:25:39 pm	✅ Completed	License reconcile completed	

Access system log files

Download log files from the following tasks in **System Tasks**:

- Discovery and inventory rules
- Business imports
- Inventory imports (readers and writers)
- SAP user consumption data imports
- Reconciliation

System Tasks

The status indicator for system tasks (in the navigation bar) may alert you to a reduced set of tasks. [View My Preferences](#).

Tasks run in the last 14 days Only show last run Yes Add filter

11 results returned 20 rows per page

Task/Step name	Task type	Start date	End date	Status	Summary	Logs
+ FNMPDataWarehouse	Data warehouse export	6/15/2015 9:19:55 pm	6/15/2015 9:24:45 pm	✅ Completed	Data warehouse exported successfully	
+ Reconciliation	Reconciliation	6/15/2015 9:21:07 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	
- ILMT	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	
Import into staging	Compliance import	6/15/2015 9:20:52 pm	6/15/2015 9:21:07 pm	✅ Completed	Devices read from source: 1	Download log
Import inventory devices	Compliance import	6/15/2015 9:21:07 pm	6/15/2015 9:23:39 pm	✅ Completed	Devices read from source: 1 Imported: 1 Black listed: 0 Merged with other data sources: 0 Number of devices ignored due to license limit: 0	Download log
Reconcile software licenses	Compliance import	6/15/2015 9:23:39 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	Download log
+ Oracle	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	
Validation errors: 4						
+ ADDM	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	
+ FlexNet Manager Suite	Compliance import	6/15/2015 9:19:55 pm	6/15/2015 9:24:29 pm	✅ Completed	License reconcile completed	
+ System Center	Compliance import	6/15/2015 7:14:27 pm	6/15/2015 7:18:43 pm	✅ Completed	License reconcile completed	
+ ARL Import	ARL import	6/9/2015 5:41:54 pm	6/9/2015 5:55:04 pm	✅ Completed	ARL imported successfully	

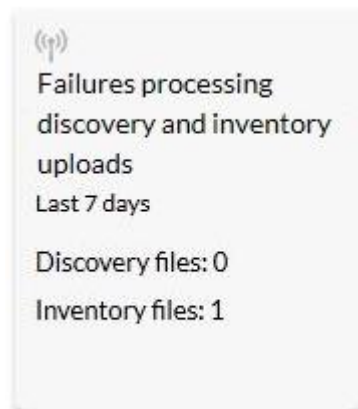
11 results returned 20 rows per page

Other improvements to log files:

- Discovery and inventory rule actions are logged to separate log files that are uploaded to the application server.
- The BeaconEngine.log file has been simplified to primarily now contain messages related to beacon operation.

View bad log creation

Be aware of the creation of bad logs without checking the server. Problems related to resolving .disco and .ndi files that lead to the files being stored to a BadLogs folder are now visible in System Health.



Failures processing discovery and inventory uploads

Imports run in the last 7 days		
1 result returned 20 rows per page		
File name	Created date	Error message
10.200.1.130 at 20141007T154817 (VMware).ndi	6/17/2015	Inventories Importer: Invalid license error - VMware PURL blade license term is needed to import this inventory.

Discovery and Inventory

FlexNet Manager Suite 2015 R2 includes the following new features to improve discovery and inventory gathering:

Import inventory data from spreadsheets

Import the following types of information, from spreadsheets, through the new **Inventory Data One-Off Upload** page, or via an inventory connection on the FlexNet Beacon for recurring imports.

- Computers
- Evidence (installers, files and WMI)
- Usage (installer and file usage)
- Oracle databases and components, and the Oracle users on those systems
- Virtual machine relationships (hosts, pools and clusters)
- Application virtualization data (a user having access to an application via an application or desktop virtualization system)

Data Inputs Sources of incoming data, including beacons and one-off uploads.

Business Data

Inventory Data

Inventory Data One-Off Upload

Back

Create inventory connection

Upload name:
This is a required field.

Spreadsheet type: Excel XLSX with headers

Download all inventory data templates: [InventoryTemplates-11.0.0.zip](#)

Locate your inventory data on your device or local network.

Computers and VMs:

Browse... Upload

This is a required field.

Evidence

Installation evidence:

Browse... Upload

File evidence:

Browse... Upload

Troubleshoot validation issues on the **Inventory Upload Validation Errors** page, linked to import tasks in the history on **Inventory Data One-Off Uploads** and **System Tasks** pages.

FlexNet Manager Suite

Reconciled: 6/15/2015 9:24 pm Administrator

Management	Reports	SAP
Management Dashboard	License Compliance	Hardware Assets
Discovery & Inventory	Procurement	Enterprise

Inventory Upload Validation Errors

Data feed: 'Oracle'

4 results returned 20 rows per page

Error type	Procedure	Step	Error summary	Skipped	Affected item	Occurred on
<input type="checkbox"/> Invalid object.	Evidence	CopyInstallerEvidenceFromExcelCSV	Missing mandatory value Object: ConsolidatedInstallerEvidence Column name: ComputerID Row number: 18 A ConsolidatedInstallerEvidence record and records for other object types were not created from this row of data	Yes	ConsolidatedInstallerEvidence	6/16/2015
<input type="checkbox"/> Invalid object.	Evidence	CopyInstallerEvidenceFromExcelCSV	Missing mandatory value Object: ConsolidatedInstallerEvidence Column name: ComputerID Row number: 19 A ConsolidatedInstallerEvidence record and records for other object types were not created from this row of data	Yes	ConsolidatedInstallerEvidence	6/16/2015

Perform Oracle inventory from the agent

Inventory tasks performed by the FlexNet inventory agent, either when the agent is directly installed on a computer or via remote execution, will automatically connect to Oracle databases on the computer. This will return the same information as an Oracle database scan performed from a beacon, but does not require a password for connecting to Oracle to be managed in the FlexNet Beacon's password store, or connection to the database service through a listener.

The Oracle database authentication must be setup so there is a user in the dba group on Unix systems, or the oradba group on Windows. Additionally for Windows systems the oradba group must include the NT_AUTHORITY\SYSTEM user.

Finally, the system user in an Oracle database must be enabled for the FlexNet Manager Suite inventory to succeed.

Improved data matching

Improvements have been made to the way computers imported from different data sources match up, reducing the cases where duplicate devices are created.

Inventory device records now have some additional properties to assist with matching across data sources, including:

- Firmware serial number
- Machine ID
- Host ID
- Partition ID
- Partition Number

These additional properties are populated from the following data sources:

- BMC Atrium Discovery and Dependency Mapping (ADDM)
- FlexNet inventory
- HP Universal Discovery (HPUD)
- IBM License Metric Tool (ILMT)

The adapter tools and staging databases on existing FlexNet Manager Suite 2015 or earlier systems using these data sources must be updated when migrating to FlexNet Manager Suite 2015 R2.

SAP changes

Transaction profile improvements

In this release, we have added a set of improvements related to transaction profile creation and the FlexNet Manager for SAP user interface. These improvements include:

1. A setting to list only objects that are in use (when performing a function to add an object to a transaction profile):

Add SAP Object

Enter the details of this SAP object:

☐ Object Name

Description

Type

☒ Transaction ☒ Report ☒ Job ☒ Non-SAP

☒ Search Objects

☒ Show only used objects Last 3 months

Search...

Advanced Refresh

#	Object Name	Transaction Profiles	Type
	/LICMAN/BSENG		Job

- The following pages have a new option to create a transaction profile or add objects to an existing transaction profile:
 - Consumption analysis
 - Module usage
 - Role utilization
 - License position
 - License assignment rules
- Transaction profiles, module and sub module names columns have been added. Users can use transaction profile column to identify users that are not members of any transaction profiles.

SAP Consumption Analysis Details

license m

Advanced Refresh

System ID	Client	User Name	Month	Object	Module Name	Sub Module Name	Transaction Profiles	Entry Type	Job Name
E7A	001	AMACOVEI	4/1/2015	/LICMAN/START	Basis Components	License Manager: Master System	ESS;Limited prof	T	
E7A	001	AMACOVEI	5/1/2015	/LICMAN/START	Basis Components	License Manager: Master System	ESS;Limited prof	T	
E7A	001	AMACOVEI	4/1/2015	/LICMAN/START	Basis Components	License Manager: Master System	ESS;Limited prof	T	
E7A	001	AMACOVEI	5/1/2015	/LICMAN/MS_DLC_PE	Basis Components	License Manager: Master System		R	
E7A	001	AMACOVEI	5/1/2015	/LICMAN/MS_ENGINE_START	Basis Components	License Manager: Master System	Limited prof	J	FNM_SAP_PACKAGE_MEASUREMENTS 04

U Time 12.984 7.563 3.234

Transaction Profiles Add Selected Add All

Miscellaneous SAP changes

The following improvements have been implemented FlexNet Manager Suite for SAP Applications:

- CUA settings have been moved from the FlexNet Manager Suite web interface to the Admin Module.
- Minor improvements have been made in message transmission from satellite to the Admin Module, the SOAMANAGER errors are not truncated anymore.

3. Added Connection Monitor – a new program that displays all the statuses of connections between FlexNet Manager for SAP applications components. The Connection Monitor is used to troubleshoot the SOAMANAGER configuration, RFC destinations, users and roles.

Changes from previous releases

This section highlights important changes to consider when migrating from a previous FlexNet Manager Suite release.

Business Adapter data model

Data model templates for the Business Adapter Studio and the data model templates in the Beacon have been improved with the following changes:

- The property names in the templates are now closely aligned with the field names displayed in the FlexNet Manager Suite user interface.
- Selected data fields in the FlexNet Manager Suite user interface that were not available in prior data models have been added, such as the Publisher attribute for purchase order lines and Exemption Reason attribute for license allocations.
- When importing business data through the beacon, the default setting for how blank values are handled has been changed from clearing out the value in FlexNet Manager Suite to leaving the value unchanged. This behavior can be overridden on a property-by-property basis within an adapter.

Upgrade of existing Business Adapter Studio installations and any standalone MGSBI installations is required after migration to FlexNet Manager Suite 2015 R2.

Existing business adapters that do not use custom SQL statements remain compatible with FlexNet Manager Suite 2015 R2. A warning message will be displayed when opening an existing adapter in the Business Adapter Studio if deprecated properties are detected.

French language support

French language support is now included in the FlexNet Manager Suite installer. No additional language pack installer is required.

Before upgrading to FlexNet Manager Suite 2015 R2, any language pack installs should be uninstalled.

Manual reconciliations by publisher

There is a new option to reconcile licenses against a specific publisher. This operation can complete in a shorter time compared to a reconciliation for all publishers.

On the **Reconcile** page, there is a check box to indicate that the reconciliation should be performed for all publishers (default behavior), or you can remove this option and select a specific publisher to target.

License Agreement

If your company has purchased a license and signed a software license agreement with Flexera Software or an authorized Flexera Software reseller, the terms and conditions of that agreement govern all use of this software. Otherwise, use of this software, on either an evaluation or a fully-paid license basis, is subject to the terms and conditions of the FlexNet Manager “click-through” End User License Agreement, which can be found in the downloaded installation package.

If you do not agree with the terms of the applicable software license agreement, you may not install onto any of your computers or, if already installed, you must remove from all computers on which it is installed. You must also return or destroy all copies of the software in your possession.

Installation and Upgrade Procedures

There are three documents available from the [Product and License Center](#) that provide instructions for installing and upgrading to FlexNet Manager Suite 2015:

- “Installing FlexNet Manager Suite 2015 R2 On Premises”
- “Upgrading FlexNet Manager Suite from 2014 Rx to 2015 R2 On Premises”
- “Migrating to FlexNet Manager Suite 2015 R2 On Premises”

The third document covers migrating an installation from FlexNet Manager Platform 9.2 SP3 or earlier to FlexNet Manager Suite 2015 R2.

License compatibility

You can download licenses from the [Product and License Center](#). If you do not have a compatible license available, then please contact your account manager or Flexera Software Support who can request that it be added to your account.

Resolved Issues

The following issues were resolved in the FlexNet Manager Suite 2015 R2 release.

Issue number	Summary
FNMS-25254	SAP timeout when recomputing SAP license position
FNMS-25206	Debian agent stops collecting package information when a description contains a tab character
FNMS-25164	Spelling should be corrected: change "recognised" to "recognized"
FNMS-24922	Filter and search text should be cleared on full page load for grid flydowns and grids in object properties pages
FNMS-24650	SAPReader fails with error: There was an error generating the XML document.
FNMS-24365	Failed importing inventory from Oracle server, query is malformed
FNMS-24348	License serial number field should be displayed in the License Properties page and in the license grids
FNMS-24271	Schedule not getting downloaded after agent bootstrap on RedHat Linux
FNMS-24246	Migration from 9.2 to FNMS 2014 failed with foreign key error
FNMS-24184	Beacon fails to upload 3rd party inventory data using ComplianceUpload. Error: The

	remote certificate is invalid according to the validation procedure.
FNMS-24150	The "Licensed Consumed and Allocated by Enterprise Groups" report returns no data when run for a specific license
FNMS-24130	NDI files were failing to resolve in some scenarios
FNMS-24056	Error while downloading the ARL: "SQL Server returned error code 547..."
FNMS-24005	Beacon UI needs to give the user some feedback and/or status update when clicking "Update Rules" or "Run" on Discovery Rules
FNMS-23972	Duplicate users are created if SCCM data source is imported before FNMS data source
FNMS-23917	NDI files may fail to resolve if database maintenance task executes before first NDI is resolved
FNMS-23802	File Uploads to Cloud are slow from customer beacons
FNMS-23756	Deleting system from SAP Dev Landscape caused SQL timed out error
FNMS-23755	"Unexpected Error" message when trying to run Reconcile through Web interface
FNMS-23710	Error when writing XenApp inventory into the databases caused by � character
FNMS-23709	License creation from PO takes a long of time
FNMS-23645	Active Directory import upload fails with SQL time out
FNMS-23611	The @ExcludeTargetSubTypeIDs parameter of the stored procedures used for custom properties is not optional as said in the documentation
FNMS-23605	Deleting enterprise group nodes with thousands of child nodes may be slow
FNMS-23493	BAS fails to create new or open existing adapter XML file on computers that don't have FNMP database connection string specified
FNMS-23443	Management Dashboard widgets do not reflect the operator's scope permissions
FNMS-23410	Tuning and Diagnostics packs can be incorrectly reported as used
FNMS-23406	Oracle Application type changes in ARL result in oracle licence consumption numbers dropped
FNMS-23392	ADDM staging tool fails to insert the data into the staging database because of the long text values coming from ADDM
FNMS-23289	FNMS UI doesn't show any information even when fatal error is occurred.
FNMS-23268	Error "Conversion failed when converting date and/or time from character string." for writer "StageImportedInstalledInstallerEvidence"
FNMS-23263	Slowness when opening discovered device properties page on cloud
FNMS-23257	AD import failing on Beacons due to duplicate users
FNMS-23233	SAP user license recommendation view can be very slow
FNMS-23219	Enterprise group import through MGSBI is not backwards compatible. view "GroupEx_T" doesn't exist for version 9.2.3 or prior
FNMS-23167	Report of ServiceNow asset import errors
FNMS-23121	Enabling an account on FNMS-Cloud does not work, the account remains disabled
FNMS-23017	Oracle applications installed but no consumption
FNMS-23013	FnmpXenAppAgent.exe incorrectly checking both users and groups when checking user account whether still enabled in AD
FNMS-23001	Licenses may overconsume due to second use rights being incorrectly applied
FNMS-22978	AD import fails with out of memory exception
FNMS-22950	Cross domain AD data is not imported
FNMS-22947	The recommended licenses field is not showing the correct recommendation after the "Recalculate" button in the Web interface is pressed.
FNMS-22869	Web interface needs to work when IE compatibility mode is enabled
FNMS-22844	New ARL release needs to be applied during FNMS migration
FNMS-22843	Software license allocations are not getting deleted during business import because BAS does not save Update Rule correctly
FNMS-22787	"Recommended Licenses" field in the Unprocessed Purchased" page may not show the correct recommendations for some scenarios

FNMS-22743	Add a custom field to Purchase Order properties page
FNMS-22737	Displaying Oracle Named User Plus license is slow
FNMS-22621	Diagnostic Pack must be licensed if Tuning Pack is installed and used
FNMS-22618	Oracle inventory should not treat Automatic SQL Tuning Advisor as usage of Tuning Pack
FNMS-22516	Activity Log page is slow to open on Cloud
FNMS-22511	No reasons for failed one-off import given
FNMS-22508	The status of business data one-off upload should be displayed on the UI
FNMS-22506	Incorrect time shown for "Occurred" time stamp after doing once-off import due to time zone issue
FNMS-22486	Inventories don't get linked to assets when imported from Service Now inventory source
FNMS-22459	Grids with 1000-row page size and viewing licenses with large number of installations may perform slowly
FNMS-22415	'SQL Server (unknown component)' will not be displayed on UI to avoid confusion
FNMS-22347	SetFKForImportedFileInfo step in Reader\Altiris\FileEvidence.xml could time out
FNMS-22336	"Exemption Reason" property should be exposed for SoftwareLicenseAllocation object in BAS and handled in MGSBI
FNMS-22324	Adoption date should be added to All Discovered Devices grid
FNMS-22323	Error when creating New User in Cloud
FNMS-22246	HyperV machines should be set to type "VMHost". But sometimes they can be set to type "Computer"
FNMS-22154	the Date of Install field of oracle server worksheet report through compliance portal showing number instead of date on some systems
FNMS-22153	Deletion of Inventory data feeds may cause database blocking across tenants
FNMS-22106	deadlock on Writer 'WriteComputers - update computers that have changed in the source ' from file \Inventory\Writer\Computer.xml
FNMS-22002	DDI contains property types 'Total Memory' and 'Total Disk Space', they should be defined as "Totalmemory" and "TotalDiskSpace"
FNMS-21974	Microsoft Core Infrastructure Server Suite License has no consumption
FNMS-21968	Oracle database installations are not being linked to the License correctly
FNMS-21912	Beacon Upgrade does not follow the drive the beacon was installed on
FNMS-21896	Allocating 100 or more users to a license may fail with an Unexpected error
FNMS-21883	BeaconEngine Service may Crash if trying to access a file that has been used by another process
FNMS-21836	Imports timing out on RemoteApplicationsByFileEvidence step in the InstalledSoftware writer
FNMS-21734	"Created By" field for assets get updated every time the record is modified
FNMS-21548	Retired Assets not setting Inventory to Ignored during database migration
FNMS-21515	Sorting or Filtering by Subnet in beacon properties may trigger a red bar error
FNMS-21486	Operators can't be enabled through Web interface
FNMS-21484	IP address and MAC address are not displayed in Inventory manager for Mac OS
FNMS-21368	"Nullable object must have a value" exception when processing purchase orders
FNMS-21233	Querying Oracle DBs failed due to connection string is built using the Service Name with slashes
FNMS-21214	Consumption count does not work for Oracle Databases
FNMS-21188	Database setup scripts may fail if the executing user doesn't have "dbo" as default schema
FNMS-21036	SyncDiscoveredDevice writer may fail with 'String or binary data would be truncated' error
FNMS-20980	FileEvidence reader timeout in step InsertRelevantSoftwareFilesWithWildcards

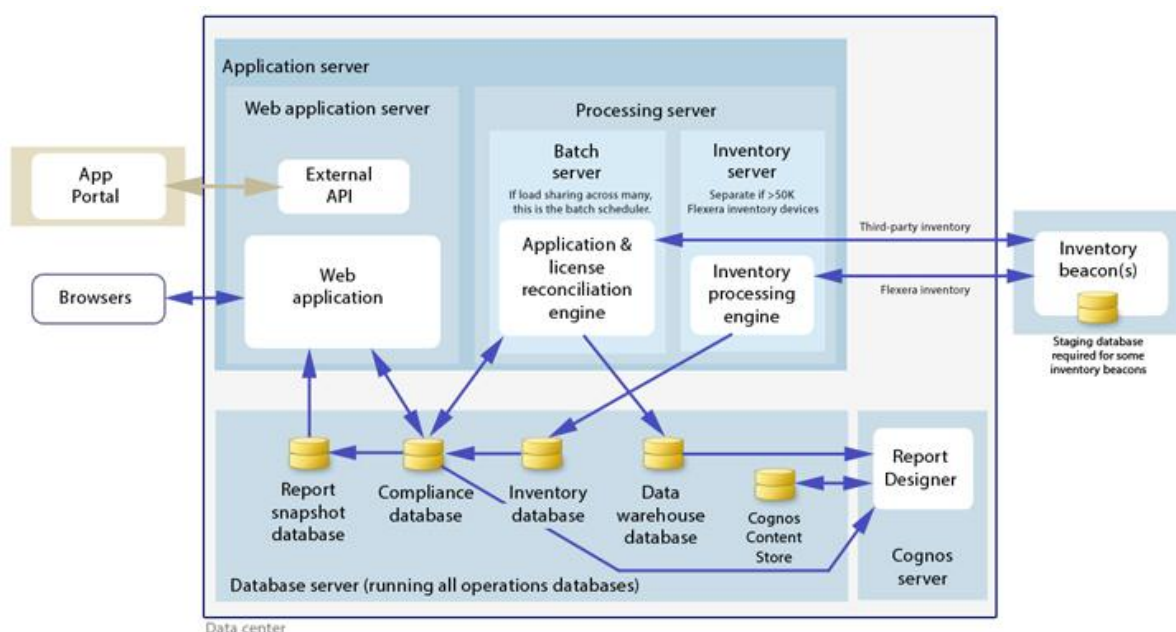
FNMS-20735	Unix devices may be duplicated when inventoried from multiple sources
FNMS-18250	Additional fields required for the default purchase import templates
FNMS-18079	Currency values imported by business importer may appear as blank in the Web interface
FNMS-17420	Add Name column to the column chooser in the Application flydown in the Create a License page
FNMS-4330	Our LMS queries should consider evidence that shows usage but no install as not installed
FNMS-3473	AD import may fail for SAMAccountName > 20 characters
FNMS-3415	ADDM compliance import fails. "String or binary data will be truncated." during SQL bulk copy
FNMS-3409	Inheritance of product use right from contracts to licenses is required
FNMS-3233	IBM PVU radio buttons are incomplete
FNMS-3117	Filter is cleared after processing unprocessed purchase; filter should not be cleared, it should remain
FNMS-2404	Application Type field is blank for application properties page through remote consoles
FNMS-2385	Oracle's Data Masking Pack is not collected by Oracle inventory
FNMS-2218	Agent on Linux may report disk size as "0"
FNMS-2160	"Oracle Advanced Security" Option should not be shown as "unlicensed" to remove customer confusion as they do not require a license
FNMS-1988	European decimal comma causes errors when creating a license from PO
FNMS-3384	Active Directory Import fails on IPv6 subnets
FNMS-17579	Application "Name" shown in "Product" column
FNMS-18587	Add Calculated User to the asset views
FNMS-19616	Unexpected error when exporting from large grids
FNMS-20779	PowerShell scripts are not updating existing configuration settings in the [BeaconPolicyPropertyValue] table
FNMS-20837	"Activity Log" function may time out
FNMS-20865	Beacon installer does not honor the value in HKLM\...\Beacon\CurrentVersion\BaseDirectory
FNMS-20883	EcmCreateUsageApplications step in "ManageSoft daily Software Usage History update" SQL job should be removed
FNMS-21144	AD import may fail on invalid XML characters
FNMS-21167	Beacon may be missing files and configuration after self-upgrade
FNMS-21213	Imported PO numbers appear as scientific number
FNMS-21229	Beacons not able to communicate anonymously to processing server for inventory beacon URL
FNMS-21231	Grid export may fail with a red error bar due to an out of memory condition
FNMS-21236	OEM connector may report Oracle servers on an incorrect port
FNMS-21282	Spelling mistake in Cognos FlexNet Manager Suite data model ("Compliance Status")
FNMS-21333	All Inventory page shows a "0" in the Processors and Cores columns when the value in the database is NULL
FNMS-21382	Scope to OS should be editable on SCCM license types
FNMS-21487	Inventory import may fail with an FK_InstalledSoftwareData_SoftwareLicenseAllocation constraint violation
FNMS-21491	Business Data last import duration may not factor in timezone correctly
FNMS-21498	Invalid date causes failure of Altiris adapter execution
FNMS-21528	Oracle inventory importer should be case sensitive for user names
FNMS-21546	Dropdown filters in reports may only show the first 50 results
FNMS-21641	Maintenance checkbox should be selectable for Purchases other than "Software

	Maintenance"
FNMS-21895	License availability reported by WebAPI ignores reservations during license reconcile
FNMS-21979	"An error has occurred while retrieving information; you may need to refresh the page." message received when selecting the subnets tab on the Beacon Properties page.
FNMS-22379	Batch scheduler cannot automatically recover from a temporarily dropped SQL server connection
FNMS-22646	Unable to run a saved version of a modified report
FNMS-25206	Debian agent stops collecting package information when a description contains a tab character

System Requirements

The system requirements are based on typical implementations in the range of 10,000 to 200,000 devices. For larger implementations, please contact the Flexera Software Global Consulting Services team through your account manager for assistance in the implementation design and deployment.

The following diagram shows the structure of a typical implementation:



Please consult the "Installing FlexNet Manager Suite 2015 On Premises" guide for recommendations on how many servers are appropriate for your implementation.

See the Knowledge Base article [FlexNet Manager for SAP Applications sizing guidelines](#) for information on sizing an implementation that uses only SAP-related functionality.

Hardware requirements

Application server

- **Processors:** 4 cores, with up to 8 cores if more than 100 operators
- **Memory:** 8GB

- **System drive:** 40GB

Database server

- **Processors:** 4 cores per 100 operators
- **Memory:** 8GB, with an additional 2GB per 10,000 devices over 50,000 devices
- **System drive:** 40GB
- **Data drives:** (typical figures based on “simple” database recovery model)
 - **Operations database data:** 4GB per 10,000 devices
 - **Operations database logs:** 20GB per 10,000 devices
 - **Report snapshot database data:** 5GB per 10,000 devices
 - **Report snapshot database logs:** 5GB per 10,000 devices
 - **Data warehouse database data:** 3GB per 10,000 devices
 - **Data warehouse database logs:** 1GB per 10,000 devices
 - **tempdb data:** 5GB per 10,000 devices
 - **tempdb logs:** 1GB per 10,000 devices
 - **Total:** 43.5GB per 10,000 devices

FlexNet Beacon

- **Memory:** 1GB minimum, 2GB or higher recommended
- **Minimum free disk space:** 1GB per 10,000 devices

FlexNet Inventory Agent

- **Memory:** 512MB minimum, 1GB or higher recommended
- **Minimum free disk space:** 25MB

Pre-requisite software

The table below describes the supported operating systems and software pre-requisites of FlexNet Manager Suite 2015 R2 at the time of release. Please refer to Knowledge Base article [Supported Configurations for FlexNet Manager Suite 2015 R2](#) for the latest configuration information about this release, which may be more recent than the information below.

Component	Operating system	Pre-requisite software
Application server	<ul style="list-style-type: none"> • Windows Server 2012 R2 • Windows Server 2012 • Windows Server 2008 R2 x64 SP1 • Windows Server 2008 x64 SP1-SP2 	<ul style="list-style-type: none"> • .NET Framework 4.0 or 4.5 • If using .NET Framework 4.0: Microsoft .NET Framework updates: KB2600211 and KB2836939 • Internet Explorer 9.0 to 11.0 • Microsoft Internet Information Services 7.0 to 8.5 • Microsoft Message Queuing (MSMQ) • Microsoft Access Database Engine (32 bit) • SQL Server features: Client Tools Connectivity, Management Tools
Database Server	<ul style="list-style-type: none"> • Windows Server 2012 R2 • Windows Server 2012 • Windows Server 2008 R2 x64 SP1 • Windows Server 2008 SP1-SP2 	<ul style="list-style-type: none"> • SQL Server 2014 • SQL Server 2012 • SQL Server 2008 R2 • SQL Server 2008

Component	Operating system	Pre-requisite software
	<ul style="list-style-type: none"> Windows Server 2008 x64 SP1-SP2 	<p>Notes:</p> <ol style="list-style-type: none"> Multi-tenant installations require the Enterprise Edition of SQL Server. Single-tenant installations can use any edition of SQL Server. The FlexNet Report Designer (Cognos) database does not support SQL Server 2014.
Cognos server	<ul style="list-style-type: none"> Windows Server 2012 R2 Windows Server 2012 Windows Server 2008 R2 x64 SP1 Windows Server 2008 SP1-SP2 Windows Server 2008 x64 SP1-SP2 	<ul style="list-style-type: none"> Apache 2.2.25
Admin module transport for FlexNet Manager for SAP Applications	<ul style="list-style-type: none"> SAP Basis release between 7.0 and 7.4 	<ul style="list-style-type: none"> The SAP GUI matching the SAP release must be installed ActiveX must be installed
Satellite transport for FlexNet Manager for SAP Applications	<ul style="list-style-type: none"> SAP Basis release between 4.6C and 7.4 	
Web browser	<ul style="list-style-type: none"> Internet Explorer 9.0 to 11.0 (if not using FlexNet Report Designer) Internet Explorer 9.0 (if using FlexNet Report Designer) Firefox 24 and above Chrome 34 and above Safari 6, 7 	<ul style="list-style-type: none"> Silverlight 5 is required for multi document upload support in Internet Explorer, Firefox and Chrome.
FlexNet Inventory Agent	<ul style="list-style-type: none"> Windows Server 2012 R2 Windows Server 2012 Windows Server 2008 R2 x64 Server Core Windows Server 2008 R2 x64 Windows Server 2008 Server Core Windows Server 2008 Server Core Windows Server 2008 x64 Server Core Windows Server 2008 x64 Windows Server 2003 R2 Windows Server 2003 R2 x64 Windows Server 2003 Windows Server 2003 x64 Windows XP Professional 	<ul style="list-style-type: none"> Internet Explorer 9.0 to 11.0 (Windows platforms only)

Component	Operating system	Pre-requisite software
	<ul style="list-style-type: none"> Windows XP Professional x64 Windows XP Home Windows Vista Windows Vista x64 Windows 7 Windows 7 x64 Windows 8 Windows 8 x64 Ubuntu 12, 13 (Intel only) Debian 6, 7 (Intel only) RedHat Linux 8 and 9 (Intel only) RedHat Enterprise Linux 3, 4, 5, 6 (Intel only) CentOS 4, 5, 6 (Intel only) Fedora 6 – 11 (Intel only) Oracle Linux 4.5 – 6.6 (Intel only) SuSE Professional 12, 13 (Intel only) SuSE Enterprise Server 11 (Intel only) Solaris 9, 10, 11 (Intel), Zones for versions 10 and 11 Solaris 8, 9, 10, 11 (SPARC), Zones for versions 10 and 11 Mac OS X 10.6, 10.7, 10.8, 10.9 AIX 5.2, 5.3, 6.1, 7.1, LPARs HP-UX 11.00, 11i, 11i v2, 11i v3, vPars/nPars 	
FlexNet Beacon	<ul style="list-style-type: none"> Windows Server 2012 R2 Windows Server 2012 Windows Server 2008 R2 x64 Windows Server 2008 Windows Server 2008 x64 Windows 7 Windows 7 x64 Windows 8 Windows 8 x64 	<ul style="list-style-type: none"> .NET Framework 4.0 or 4.5 If using .NET Framework 4.0: Microsoft .NET Framework updates: KB2600211, KB2836939 and KB2468871 Internet Explorer 9.0 to 11.0 Oracle OLE DB Provider (32 bit), version 10.2.0.3 or later (for Oracle Database inventory) IBM OLE DB Provider (32 or 64 bit) (for connections to import data from DB2 databases). Whether the driver is 32 or 64 bit is determined by the operating system, for 64 bit operating systems the 64 bit drivers are required. PowerShell 3.0

Compatibility with other products

This section describes the compatibility of FlexNet Manager Suite 2015 R2 with other Flexera Software products at the time of release. Please refer to knowledge base article [Supported Configurations for FlexNet Manager Suite 2015 R2](#) for the latest configuration information about this release, which may be more recent than the information below.

Installation on the same server

The following table lists the supported versions of components that can be installed on the same server as a FlexNet Manager Suite 2015 R2 application server.

Component	Version that can be installed on the same server as FlexNet Manager Suite 2015 R2
FlexNet Inventory Agent	2015 R2
FlexNet Beacon	2015 R2
FlexNet Report Designer	2014 R2

Integration with other products

FlexNet Manager Suite can import data from a number of other products / components. The following table details their supported versions:

Product / component	Versions that can be imported from
Deployment Manager / Flexera Inventory Manager	8.4, 8.5, 8.6, 9.0, 9.1, 9.2
Microsoft SMS/SCCM	2003, 2007, 2012, 2012 R2
IBM License Metric Tool (ILMT)	7.2, 7.5, 9.0, 9.1 (when running on an IBM DB2 database)
IBM Software Usage Analysis (SUA)	9.x (when running on an IBM DB2 database)
Microsoft Exchange ActiveSync	2007, 2010
Symantec Altiris	6.5, 7.1, 7.5
BMC Atrium Discovery and Dependency Mapping (ADDM)	8.3, 9.0, 10.0
HP Discovery and Dependency Mapping Inventory (DDMI)	9.10, 9.30
BladeLogic Client Automation (Marimba)	8.2
Tivoli End Point Manager (BigFix)	8.2
ServiceNow	Eureka, Dublin, Calgary
IBM Passport Advantage	as of Nov 2014
FlexNet Manager for Engineering Applications	14, 15.1, 15.2, 15.3, 15.4
FlexNet Manager for SAP Applications	5.6, 5.7, 9.0, 2014, 2014 R2, 2014 R3, 2015

Product / component	Versions that can be imported from
Citrix XenApp Server	6.0, 6.5, 7.5
Citrix XenApp EdgeSight	5.4
Citrix XenDesktop	5.6, 7.5
Microsoft App-V	4.6
Oracle Database	8i, 9i, 10g, 11g, 11g Release 2, 12c
VMware vCenter	2.0 to 5.5
VMware ESX/ESXi Server	3.0 to 5.5 Note: As of ESXi 3.5 Update 4, remote inventory is not possible on the free license versions of ESXi
VMware vSphere	4.0 to 5.5
Hyper-V	Running on <ul style="list-style-type: none"> • Windows Server 2012 R2 • Windows Server 2012 • Windows Server 2008 R2 x64 Server Core • Windows Server 2008 R2 x64 • Windows Server 2008 x64 Server Core • Windows Server 2008 x64
Oracle VM Server for x86	3.2, 3.3

Inventory components

The following table lists the versions of the FlexNet Beacon and FlexNet Inventory Agent that can be managed by FlexNet Manager Suite 2015 R2.

Component	Compatible versions
FlexNet Beacon	2014, 2014 R2, 2014 R3, 2015, 2015 R2 Please refer to compatibility with Citrix below
FlexNet Inventory Agent (Windows)	8.4, 8.5, 8.6, 9.0, 9.1, 9.2, 2014, 2014 R2, 2014 R3, 2015, 2015 R2
FlexNet Inventory Agent (Linux)	
FlexNet Inventory Agent (Solaris)	

Component	Compatible versions
FlexNet Inventory Agent (Mac OS X)	
FlexNet Inventory Agent (AIX)	
FlexNet Inventory Agent (HP-UX)	
Citrix XenApp Server Agent	2014 R3, 2015, 2015 R2 The Citrix XenApp Server Agent requires .Net 4.0.

Compatibility of FlexNet Beacon with Citrix XenApp

Gathering Citrix XenApp inventory is not supported with a FlexNet Beacon version 2014 when reporting to FlexNet Manager Suite 2015 R2. In this case, FlexNet Beacon must be upgraded to version 2014 R2 or later.

FlexNet Report Designer compatibility

The following versions of FlexNet Report Designer are compatible with FlexNet Manager Suite 2015 R2.

Component	Compatible versions
FlexNet Report Designer	2014 R2

Known Issues

A list of known issues for the FlexNet Manager Suite 2015 R2 release is available from the Flexera Software support site. Please refer to Knowledge Base article [Known Issues for FlexNet Manager Suite 2015 R2](#) for details.

Other Resources and Links

Documentation

Documentation for FlexNet Manager Suite 2015 R2 is provided as online help. From the web user interface, click the question mark icon to launch the help.

For installation and upgrade documentation, please refer to the section in this document called [Installation and Upgrade Procedures](#).

Other links

Item	Description	Link
Flexera Software website	Information about Flexera Software	http://www.flexerasoftware.com
Support	Support website, including the knowledge base	http://flexerasoftware.force.com/
Product downloads	Flexera Software Product and License Center	https://flexerasoftware.flexnetoperations.com/