



FlexNet Manager Suite 2017 R2

Release Notes

September 2017, Version 1.26

Introduction	2
New Features.....	3
New Microsoft Server/Management Core license type.....	3
New Analytics for cloud customers	3
Support for IPv6 networks.....	4
New registry settings for configuring discovery from inventory beacons	5
Changes from Previous Releases	5
Improved robustness and performance for compliance calculations.....	5
Product use rights renaming	6
Improved visibility for cloud properties.....	6
Renaming of “In breach” to “At risk”	7
Improved inventory record deletion.....	7
Support for ServiceNow release Jakarta	7
Support for XenApp and XenDesktop 7.13 and 7.14.....	8
Support for VMware vSphere 6.5.....	8
Shadow copying of assemblies on the batch server	8
Documentation for customized asset types.....	8
Deprecated registry setting for inventory beacons	9
Support for the Service Life Data Pack product	9
License Agreement	9
Installation and Upgrade Advice	10
Resolved Issues	10
System Requirements	12
Network Requirements	13
Hardware Requirements.....	13
Prerequisite Software	15
Compatibility with Other Products	19
Known Issues.....	22
Documentation	22
More Information	23

Introduction

FlexNet Manager Suite provides software asset, hardware asset, and contract management for enterprises across over 16,000 publishers and more than 225,000 applications. It reports detailed information for installed software, application usage, purchases, and reconciles these to provide a license position. It inventories virtual environments and Oracle databases, imports inventory from Microsoft System Center Configuration Manager (SCCM) and other inventory tools through configurable adapters, and seamlessly integrates with Enterprise Resource Planning (ERP), Human Resources (HR), Active Directory (AD), and Purchase Order (PO) systems. With its built-in library of more than 1,000,000 Stock Keeping Unit numbers (SKUs), for automated reconciliation of purchases with inventory, and support for the latest license models, FlexNet Manager Suite is used by enterprises to gain control of their software estate and optimize their software spend.

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

- FlexNet Manager Suite
- FlexNet Manager for IBM
- FlexNet Manager for Microsoft
- FlexNet Manager for Oracle
- FlexNet Manager for SAP Applications
- FlexNet Manager for Symantec
- FlexNet Manager for VMware
- Service Life Data Pack

The following products in the suite have their own separate Release Notes:

- FlexNet Manager for Engineering Applications
- FlexNet Manager for Cloud Infrastructure
- Workflow Manager

These Release Notes are available in English, French, German and Japanese.

Note: For the latest publication of the Release Notes, go to the [Customer Community](#) site (login required).

New Features

New Microsoft Server/Management Core license type

A new license type **Microsoft Server/Management Core** is available to manage Microsoft Windows Server 2016 and on-premises scenarios for Microsoft System Center 2016 licenses. This license type is available to FlexNet Manager for Microsoft licensed customers. It covers both the Standard and Datacenter editions of these products. The metric used by this new license type is the number of physical cores - with no hyper-threading considerations. This license adheres to the rules:

- Each physical processor must be licensed for at least 8 cores
- Each server must be licensed for at least 16 cores.
- A Standard license will permit 2 Operating System Environments (OSEs), while Datacenter permits unlimited OSEs

Customers who upgrade to FlexNet Manager Suite 2017 R2, and are licensed for the FlexNet Manager for Microsoft product, will be presented with the recommendation to change the license type to **Microsoft Server/Management Core** in the **Recommended License Changes** page. For remaining customers, the license type recommendation will commonly select a **Core points** license type.

New Analytics for cloud customers

FlexNet Manager Suite provides cloud customers with new data analysis functionality, through an update to **Analytics**. New dashboards for software and hardware asset management provide a display of near real-time data about applications, licenses, assets, and inventory. A simple and efficient interface delivers an 'at a glance' view of your managed environment, with the ability to explore the data to identify any issues quickly.

These new pages are accessible from the existing Analytics page when Report mode is selected:

- Software Asset Management
- Hardware Asset Management
- My Analytics home

My Analytics home is a personal dashboard enabling the creation of a customized dashboard, populated using a variety of supplied widgets, for each operator's specific needs.

Each widget has dynamic filtering functionality which dynamically updates the data displayed across all widgets on the page. For example, the **Software Asset Management** dashboard can be filtered by publisher. In addition, the data within a widget can be explored by clicking to see the next level of detail. When viewing data for a product, it is possible to drill-down to see that data by application version and edition.

The new **AppAtlas Service Life** information is also available in Analytics, to assist with your application lifecycle management.

Note Analytics is available in English only. Analytics for on-premises customers is unchanged.

For cloud customers, the new version of the *System Reference* guide includes a chapter introducing the updated Analytics and the customizable dashboards it delivers.

Support for IPv6 networks

FlexNet Manager Suite 2017 R2 allows collection of inventory in network supporting the IPv6 address family. The use of dual stack (hybrid IPv6 and IPv4) and individual (legacy IPv4 new IPv6) address family networks are supported. The IPv6 address family is supported for:

- Communication from the FlexNet inventory agent installed on a target inventory device to an inventory beacon.
 - This includes both the full agent and the lightweight FlexNet inventory scanner.
 - Support includes correct handling of IPv6 addresses entered as hexadecimal strings in configuration files, rollout files, command lines, and for the FlexNet inventory agent on Windows, the Windows registry.
 - Note that link-local IPv6 addresses, which are valid and unique only on a single network link, are not supported, since these are contrary to the policy-driven nature of managed devices. However, both global and unique local scopes are supported.
 - The FlexNet inventory agent uses the first IP address returned after a DNS request, by default - regardless of its address family. There is also a preference you can set to favour either IPv6 or IPv4, for those situations where manual configuration is desirable.
- Communications between inventory beacon(s) and a parent inventory beacon, when there is a hierarchy of inventory beacons implemented.
- Communication between a top-level inventory beacon in an IPv6 network and a dual-stack application server (for on-premises implementations).

Cloud customers should be aware that the Flexera cloud servers are all located in IPv4 networks. The top-level inventory beacons in FlexNet Manager Suite implementations must use IPv4 addresses where applicable for communications to the central application server. To support a local IPv6 network, these inventory beacons must be a dual stack device, to support both protocols.

At this release, the following limitations apply to IPv6 support:

- For on-premises implementations, the central application server must be able to use IPv4 addresses for inter-process communications, particularly in large implementations that split the application server into several distinct servers (web application server, batch server, inventory server[s]).
- Remote execution does not support IPv6 address families. This means that automated adoption of target inventory devices by inventory beacons in IPv6 networks is not supported (use third-party deployment of the FlexNet inventory agent instead). Zero-footprint inventory collection by an inventory beacon, and VMware host scans, are other examples that cannot use IPv6 addressing.
- Files downloaded to all FlexNet inventory agents cannot use the IPv6 address family, since such details may reach legacy versions of FlexNet inventory agent that cannot process the new address format. Examples include the failover list of all inventory beacons, or the networkname property in the C:\Program Files (x86)\Flexera Software\Inventory

Beacon\DotNet\conf\BeaconEngine.config file that configures the web server on the inventory beacon. Instead, use either the hostname or fully-qualified domain name of the inventory beacon, so that inventory devices rely (as normal) on DNS results to contact an inventory beacon appropriate for them.

- CAL device license consumption is only supported using the IPv4 address family.

The *Gathering FlexNet Inventory* PDF file contains a new topic, *Support for IPv6 Networks*, and documents the new preference, *PreferIPVersion*. As well, several help topics have been updated to clarify the limitations mentioned above.

New registry settings for configuring discovery from inventory beacons

Several new (or revised) registry settings are available for inventory beacons, when updated to the current release. These allow you to override the system defaults for methods of discovering devices on your network and to customize behavior for your environment. These settings should be used with care since they control the methods by which your discovery rules (set in the web interface) are carried out. For example, it is theoretically possible to configure 'no action' settings that will prevent some of the configured rules going into effect. The relevant settings are fully documented in the online help, under *Inventory Beacons > Inventory Beacon Reference > Registry Keys for Inventory Beacon*. They include:

- DefaultPingSweepOptions
- DefaultPortScanOptions
- DefaultTcpScanTypeOptions
- DefaultUdpScanTypeOptions.

Changes from Previous Releases

Improved robustness and performance for compliance calculations

The high-frequency calculation of peak consumption for IBM PVU licenses has been re-architected in this release. This mode applies when FlexNet Manager Suite is used in place of ILMT to calculate sub-capacity license consumption in virtualized environments. In this mode, IBM requires that hardware changes are tracked every 30 minutes, and FlexNet Manager Suite currently carries that schedule through to recalculate peak consumption of IBM PVU licenses every 30 minutes as well. In a related improvement, downloads of the Application Recognition Library (ARL) no longer block the imports of

the high-frequency hardware scans and recalculation of the peak consumption of IBM PVU license points.

There is no external change in product appearance for these improvements. However, there have been several minor improvements in the online help topics that relate to IBM PVU calculations; and an entire new chapter on *Sub-Capacity Licensing with IBM PVU* has been added to the *System Reference* PDF file. As well as a wealth of technical detail, this chapter includes a helpful, updated topic on *Applying for IBM Approval*.

Note: *If you are upgrading from earlier releases and are using the high-frequency mode for IBM PVU licenses, you **must** complete an inventory import and full license compliance calculation before the enhanced high-frequency mode is available for use. This import and license compliance calculation, which typically occurs overnight (or can be triggered by an operator with administrator privileges), populates the baseline data needed for the enhanced functionality.*

Product use rights renaming

Some product use rights related to rights on virtual machines and hosts have been renamed in the product to better accommodate all different scenarios across license types and publishers. This change impacts the license property pages, where these product use rights are exposed and the contract property pages. The changes are:

Previous releases	2017 R2
Always use full capacity license calculations	License calculation uses host capacity
One license allows unlimited VM installation per host	One licensed host allows unlimited VM installations
One license covers multiple VMs	One licensed host covers multiple VMs
Maximum VMs per license	Maximum VMs

There is no impact on product behavior.

Improved visibility for cloud properties

Each virtual machine inventory device carries two properties found on the **General** tab:

- **Located in service provider's datacenter (cloud).** This is a checkbox to indicate if the virtual machine is offsite in the cloud.
- **Service provider.** Identifies the service provider when a virtual machine is hosted in an external cloud.

These properties are available when viewing license records in:

- The consumption list and fly-down in the **Consumption** tab, for all licenses except user-based licenses and CAL license types.
- The **Apply Allocations and Exemptions** page.

They are also available when multi-editing virtual devices.

Import of the device cloud properties

The **Service provider** and **Located in the cloud** properties are now available in the Business Importer. Note that these properties are only imported for virtual machines, as they are unsupported for physical devices.

Renaming of “In breach” to “At risk”

To mitigate some potential legal issues and to better render the status of the licenses, the term “In breach”, used in all previous releases of FlexNet Manager Suite, has been replaced with “At risk”. Licenses are at risk when their consumption figure exceeds the entitlements attached to the license. The same concept has also been applied to:

- The “Breach reason” that has been renamed to “Risk reason”.
- Group Assignment calculations, enabled through the **Groups are at risk** setting on the **Group assignment** tab on the **License Properties** page, groups are now displayed as **Compliant** or **At risk**, depending on the outcome of the compliance calculation.

Improved inventory record deletion

When you delete an inventory record from the **All Inventory** page for devices for which the inventory information has been reported by the FlexNet inventory agent or the lightweight FlexNet Inventory Scanner, the inventory record is not only deleted from the **All Inventory** page but is also now automatically deleted from the inventory database. Previously, you needed to delete the device from the **All Inventory** page and then also delete the device from the **All Discovered Devices** page. This enhancement only applies to deletion of devices for which the inventory information has been reported by the FlexNet inventory agent or the lightweight FlexNet Inventory Scanner.

Support for ServiceNow release Jakarta

The FlexNet Manager Suite - ServiceNow integration package has been validated with the ServiceNow release, Jakarta. Note that this release requires the activation of a ServiceNow plugin which can only be performed by ServiceNow support. Further information is available in the *ServiceNow Integration with FlexNet Manager Suite* chapter in the *FlexNet Manager Suite Adapters Reference* guide.

Support for XenApp and XenDesktop 7.13 and 7.14

FlexNet Manager Suite 2017 R2 adds support for version 7.13 and 7.14 of **Citrix XenApp** and **Citrix XenDesktop**. Further information is available in the *XenApp Server Adapter* chapter in the *FlexNet Manager Suite Adapters Reference* guide

Support for VMware vSphere 6.5

FlexNet Manager Suite 2017 R2 adds support for VMware vSphere 6.5 (including its core components: ESX/ESXi 6.5 and vCenter Server 6.5). With these changes, FlexNet Manager Suite:

- Now supports ESX/ESXi Server 3.5 through 6.5, and vCenter Server 2.5 through 6.5.
- No longer supports VMware vSphere ESX/ESXi 3.0.x and earlier,
- No longer supports vCenter Server 2.0.x and earlier.

Shadow copying of assemblies on the batch server

On the application server (or, on larger multi-server implementations, the batch server) of on-premises implementations, FlexNet Manager Suite now uses a technique called "shadow copying" to ensure that its executables can run continuously even when those same executables or their dependent assemblies need to be updated.

Shadow copying is a core feature of Microsoft .NET. Shadow copy works by copying an assembly and its dependencies to a secondary location before execution. The assembly copy is then executed from the secondary location, leaving the assemblies in the primary location unlocked.

This process allows for the original assemblies to be updated without interrupting operation of FlexNet Manager Suite, and ensures that the latest available code assembly is used at each invocation. This technique only contributes to the application of hotfixes to the affected assemblies, and does not impact the normal upgrade processes for new releases of the complete FlexNet Manager Suite product.

For more information, on-premises customers should refer to the *Server Scheduling* chapter in the *FlexNet Manager Suite 2017 R2 System Reference* guide. This chapter now includes full details of the shadow copying methods and updated command lines. If you wish to take advantage of this high-availability approach for your on-premises implementation, you should check and if necessary update any custom scheduled tasks to use the same shadow copying approach.

Documentation for customized asset types

The list of asset types cannot be customized in the same way as other customizable static lists in FlexNet Manager Suite. However, customers with on-premises implementations can access their compliance database to create a custom asset type, with some limitations in its configurability. A detailed topic on possible methods (and limitations) has been added to the *Adding Custom Properties* chapter of the *FlexNet Manager Suite 2017 R2 System Reference* guide (for on-premises implementations). This procedure is not available to cloud customers.

Deprecated registry setting for inventory beacons

The **DefaultScanOptions** preference available as a registry setting on inventory beacons is deprecated from this release, and has no effect on inventory beacons that are updated to the latest release.

A group of new registry settings for inventory beacons is available from this release. See [New registry settings for configuring discovery from inventory beacons](#) for more information.

Support for the Service Life Data Pack product

FlexNet Manager Suite has been updated to support the new **Service Life Data Pack** product. This new product delivers End of Service Life (EOSL) information by populating three new content properties that have been added to the three existing properties. All six date fields can be seen in this release:

- Start of life
- Release date
- End of sales
- End of support
- End of extended support
- End of life

License Agreement

If your company has purchased a license and signed a software license agreement with Flexera or an authorized Flexera 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 FlexNet Manager Suite onto any of your computers or, if already installed, you must remove it from all computers on which it is installed. You must also return or destroy all copies of the software in your possession.

License Compatibility

Cloud customers’ licenses will be updated automatically.

On-premises customers should request a new license key from support@flexerasoftware.com. Once the license has been created, it will be emailed to the requestor, and a copy stored in the [Product and License Center](#).

Installation and Upgrade Advice

If you are upgrading your on-premises implementation from the previous release (2017 R1), you may follow normal upgrade procedures (using the “Upgrading” document from the list below).

If you are upgrading from any earlier release (2014 – 2016 R3), you should be sure to upgrade all components:

- Your application server(s) (for on-premises implementations, using the normal upgrade processes)
- All forms of FlexNet inventory tools, including the full FlexNet inventory agent, the lightweight FlexNet Inventory Scanner, and FlexNet core inventory components wherever you may have installed them
- FlexNet Beacon installed on all your inventory beacons.

Tip: Customers using the cloud (SaaS) implementation are also strongly advised to ensure that all FlexNet inventory tools and installed inventory beacons are updated to the latest versions.

This strong recommendation follows from the ongoing security improvements touching all these components that were released with version 2017 R1 (the previous release).

There are four documents for on-premises customers that provide instructions for installing and upgrading to the current release, FlexNet Manager Suite 2017 R2.

- “Installing FlexNet Manager Suite 2017 R2 On Premises”. This includes the option of installing FlexNet Report Designer 2017 R2.
- “Installing FlexNet Manager Suite 2017 R2 for a Managed Service”.
- “Upgrading FlexNet Manager Suite from 2014 Rx to 2017 R2 On Premises”. This is designed for upgrades from FlexNet Manager Platform version 2014 or later.
- “Migrating to FlexNet Manager Suite 2017 R2 On Premises”. This covers migration from FlexNet Manager Platform 9.2 to FlexNet Manager Suite 2017 R2. Earlier versions of FlexNet Manager Platform will need to be upgraded to 9.2 before starting this migration.

These are contained in the **Installation Documentation for FlexNet Manager Suite 2017 R2** archive that is available from the [Product and License Center](#) and the [Customer Community Documentation](#) site. They are also available through the title page of online help for on-premises implementations.

Resolved Issues

The following issues have been resolved in **FlexNet Manager Suite 2017 R2** release since the release of FlexNet Manager Suite 2017 R1.

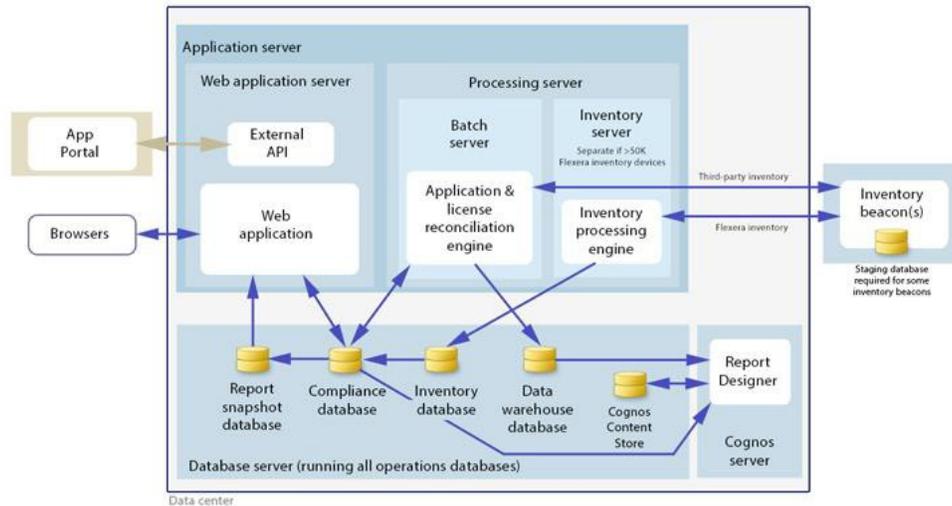
Issue Number	Summary
FNMS-11668	A Microsoft SCCM 2012 import may fail when importing a large volume of file evidence
FNMS-35381	Virtual Machines may not link to the correct ESX host when moved between hosts

FNMS-35891	Error opening licenses which are linked to a product but have no primary application
FNMS-36915	Intermittent license reconciliation performance issue with multi-product licenses
FNMS-37583	A publisher specific reconcile may fail with a FK_SoftwareLicenseProcessorPointsData_ComplianceComputer constraint violation
FNMS-37956	Performing a reconcile may deadlock processing bundle installations
FNMS-41028	No ability to disable ICMP while performing discovery
FNMS-41350	Red bar error in the WebUI when rendering links to multiple objects have NULL values.
FNMS-41906	Inventory import fails when no value is returned for Number of Sessions
FNMS-41942	The importer may fail, when an application installed on a computer is also is run remotely via AppV
FNMS-42221	XenDesktop/EdgeSight database import fails when using the recommended 3 database configuration (Logging, Monitoring and Site databases)
FNMS-44237	Some grids may time out when loading data if the grid contains custom properties
FNMS-44296	License exemptions may not work from within the license consumption tab, when saving an exemption from bulk allocations.
FNMS-44380	A Microsoft Office 365 user license allocation may fail if a Compliance user is linked to multiple imported users
FNMS-44928	Inventory importer application lock wait timeout cannot be extended beyond 1 hour
FNMS-45121	Inventory importer fails when importing from App-V when computer doesn't have a dot in the host name
FNMS-45376	Newly added dependent SAP systems in Beacon cannot refresh in the SAP systemlandscape in FNMS web UI
FNMS-45577	ServiceNow exporter utility may send REST requests bigger than 10 MB, which ServiceNow will reject.
FNMS-46794	Red bar error may occur when looking at the license tab of User properties
FNMS-47300	IBM PVU consumption may be incorrectly increased when a full import and IBM reconcile are run concurrently
FNMS-48286	Data appearing in an assets custom fields, is not displayed after saving.
FNMS-48347	The blacklisted serial numbers list in Flexnet Manager Suite cloud may affect other cloud customer's computer inventory matching.
FNMS-49191	An unexpected error may occur when downloading or searching the Recommended License Changes.

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 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 2017 R2 On Premises* guide for recommendations on how many servers are appropriate for your implementation.

Please consult the *FNM-SAP Sizing Guidelines 2017 R2* guide for recommendations on sizing an implementation that uses only FlexNet Manager for SAP Applications functionality.

Network Requirements

Network

Category	Requirement	
Internet Protocol version	IPv4, IPv6 and dual-stack.	Remote execution (such as remote discovery and inventory collection) requires IPv4. Communication between FlexNet Manager Suite Cloud and the top-level inventory beacon server(s) requires IPv4. Microsoft CAL device license calculations require IPv4 for CAL evidence collection and computer inventory.
Ports	80 & 443	Note that optional inventory sources may require additional ports. Refer to the topic 'Ports and URLs for Inventory Beacons' in the online help, for further information.

Cloud

Category	Requirement	
Required IP ranges for Cloud customers who are not using DNS hostname	US Domain: Production - 64.14.29.0/24 DR - 64.27.162.0/24 EU Domain: Production - 62.209.49.0/24 DR - 162.244.221.0/24	It is recommended to use DNS hostnames for network configuration of firewalls between inventory beacons and FlexNet Manager Suite Cloud. IP addresses can change without or with limited notice.

Hardware Requirements

Application Server

Category	Requirement
Processors	4 cores, with up to 8 cores if more than 100 operators
Memory	8 GB
System drive	40 GB
Data drives	DatImport +Temp folders require 2GB each for Content library updates

Database Server

Category		Requirement
Processors		4 cores per 100 operators
Memory available for SQL Server		16 GB per 50,000 devices
System drive		40 GB
Data drives (Typical figures based on "simple" database recovery model)	Compliance database data	Per 10,000 devices: 25 GB in first year + 15 GB growth per year
	Compliance database logs	20 GB per 10,000 devices
	Inventory database data	20 GB per 10,000 devices with FlexNet Inventory
	Inventory database logs	10 GB per 10,000 devices with FlexNet Inventory
	Report snapshot database data	10 GB
	Report snapshot database logs	10 GB
	Data warehouse database data	20 GB (based on 1,000 licenses)
	Data warehouse database logs	20 GB
	tempdb data	5 GB per 10,000 devices
	tempdb logs	1 GB per 10,000 devices
	Cognos content store data + logs	1 GB
	TOTAL	60 GB + 80 GB per 10,000 devices
ANNUAL GROWTH RATE	15 GB per 10,000 devices	

FlexNet Designer (Cognos) Server

Category	Requirement
Processors	4 cores
Memory	16 GB+ recommended
System drive	100 GB

FlexNet Beacon

Category	Requirement
Processors	2 cores
Memory	4GB minimum, 8GB or higher recommended
Minimum free disk space	1GB per 10,000 devices

FlexNet Inventory Agent

Category	Requirement
Processors	1 core
Memory	512MB minimum, 2GB or higher recommended
Minimum free disk space	25MB installation + 100MB workspace

Prerequisite Software

The table below describes the supported operating systems and software prerequisites of FlexNet Manager Suite 2017 R2 at the time of release. Unless otherwise noted, support for a particular release includes support for all official service packs issued against the same release.

Component	Operating System	Prerequisite Software
Application Server	<ul style="list-style-type: none">Windows Server 2016Windows Server 2012 R2Windows Server 2012Windows Server 2008 R2 x64 SP1-SP2Windows Server 2008 x64 SP1-SP2	<ul style="list-style-type: none">.NET Framework 4.5.xInternet Explorer 10.0 to 11.0Microsoft Internet Information Services 7.0 to 10.0Microsoft Message Queuing (MSMQ)Microsoft Access Database Engine (32-bit)SQL Server features: Client Tools Connectivity, Management Tools

Component	Operating System	Prerequisite Software
Database Server (Including Cognos Database Server)	<ul style="list-style-type: none"> Windows Server 2016 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"> SQL Server 2014 * SQL Server 2012 SQL Server 2008 R2 SQL Server 2008 SQL Server Client Tools, of the same version <p>Notes</p> <ul style="list-style-type: none"> Microsoft SQL CLR integration must be enabled. * All FlexNet Manager Suite databases, including the Cognos content store database, should be run with compatibility level set to SQL Server 2012 (110) when running on SQL Server 2014. Multi-tenant installations require the Enterprise Edition of SQL Server. Single-tenant installations can use any edition of SQL Server. Customers using the legacy Contracts Portal may wish to enable full-text indexing to permit searching within documents.
FlexNet Report Designer / 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"> .NET Framework 4.5.x Registration of ASP.NET: C:\Windows\Microsoft.NET\Framework64\v4.0.30319\aspnet_regiis.exe -i) <p>Notes</p> <ul style="list-style-type: none"> When FlexNet Report Designer is installed on a server other than the database server running the content store database, Microsoft SQL Server Native Client must be installed on the server hosting FlexNet Report Designer. Cognos server is not supported in Multi-tenant installations.
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 7.5 	

Component	Operating System	Prerequisite Software
Web Browser	<ul style="list-style-type: none"> • Microsoft Internet Explorer 10 - 11 • Microsoft Edge for Windows • Google Chrome 46 - 52 • Mozilla Firefox 45 - 51 • Apple Safari 7 - 10 <p>Some Report Designer menu options are not available in the Chrome browser. For further information refer to this IBM Knowledge Center article.</p> <p>Support for future web browser releases cannot be verified, however there are no anticipated issues for future releases.</p> <p>A minimum screen resolution of 1024 horizontal pixels is required.</p>	<p>Report Designer is not compatible with Microsoft Edge.</p>
FlexNet inventory agent	<ul style="list-style-type: none"> • Windows Server 2016 • Windows Server 2012 R2 SP1 • 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 • Windows XP Professional x64 • Windows XP Home • Windows Vista • Windows Vista x64 	

Component	Operating System	Prerequisite Software
FlexNet inventory agent (continued)	<ul style="list-style-type: none"> • Windows 7 • Windows 7 x64 • Windows 8 • Windows 8 x64 • Windows 10 • Windows 10 x64 • Ubuntu 12 – 16 and 17.04 (only on x86, 32-bit and 64-bit) • Debian 6 – 8.6 (only on x86, 32-bit and 64-bit) • Red Hat Linux 8 and 9 (x86 only) • Red Hat Enterprise Linux 3, 4, 5, 6, 7 (only on x86, 32-bit and 64-bit) • CentOS 4 – 7 (only on x86, 32-bit and 64-bit) • Fedora 6 – 11 and 18 – 26 (only on x86, 32-bit and 64-bit) • Oracle Linux 4.5 – 7.0 (only on x86, 32-bit and 64-bit) • SuSE Professional 12, 13, 42.1 and 42.3 (only on x86, 32-bit and 64-bit) • SuSE Enterprise Server 11 and 12 (only on x86, 32-bit and 64-bit) • Solaris 9, 10, 11 (x86), Zones for versions 10 & 11 • Solaris 8, 9, 10, 11 (SPARC), Zones for versions 10 & 11 • Mac OS X 10.6 Snow Leopard, 10.7 Lion • OS X 10.8 Mountain Lion, 10.9 Mavericks, 10.10 Yosemite, 10.11 El Capitan • macOS 10.12 Sierra • AIX 5.2, 5.3, 6.1, 7.1, LPARs • HP-UX 11.00, 11i, 11i v2, 11i v3, vPars/nPars 	

Component	Operating System	Prerequisite Software
FlexNet Beacon	<ul style="list-style-type: none"> Windows Server 2016 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 Windows 10 Windows 10 x64 	<ul style="list-style-type: none"> .NET Framework 4.5.x Any supported web browser 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+ The following are required for Office 365: <ul style="list-style-type: none"> 64-bit server operating system .NET Framework 4.5.2 Microsoft Online Services Sign-in Assistant (64-bit version) Windows Azure Active Directory PowerShell Module Skype for Business Online PowerShell Module

Compatibility with Other Products

This section describes the compatibility of FlexNet Manager Suite 2017 R2 with other Flexera products at the time of release.

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 2017 R2 application server.

Component	Version that can be installed on the same server as FlexNet Manager Suite 2017 R2
FlexNet inventory agent	2017 R2
FlexNet Beacon	2017 R2
FlexNet Report Designer	2017 R2

Integration with Other Products

FlexNet Manager Suite integrates with the following products & components. This table details the currently supported versions:

Product / Component	Versions that can be imported from
BladeLogic Client Automation (Marimba)	8.2
BMC Atrium CMDB	8.1 together with Atrium Integrator version 8.1
BMC Discovery (ADDM)	8.3, 9.0, 10.0, 10.1, 10.2, 11.0, 11.1, 11.2
BMC Remedy ITSM Applications	7.6.04 SP4
Citrix XenApp EdgeSight	5.4, 7.6 (requires a Platinum license)
Citrix XenApp Server	6.0, 6.5, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 7.14
Citrix XenDesktop	5.6, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 7.14
Deployment Manager / Flexera Inventory Manager	8.4, 8.5, 8.6, 9.0, 9.1, 9.2
App Portal	2013 R2 to 2017 R1
FlexNet Manager for Engineering Applications	15.5, 2016 R1, 2016 R2, 2016 R2 SP1
HP Discovery and Dependency Mapping Inventory (DDMI)	9.10, 9.30
HPE Universal Discovery (HP-UD)	10.10, 10.11
Hyper-V	Running on: <ul style="list-style-type: none"> • Windows Server 2016 • 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
IBM BigFix Platform (previously Tivoli Endpoint Manager)	8.2, 9.5
IBM License Metric Tool (ILMT) on IBM DB2	7.2, 7.5, 9.0, 9.1, 9.2.3 and 9.2.4

Product / Component	Versions that can be imported from
IBM License Metric Tool (ILMT) on Microsoft SQL Server	9.2.3 and 9.24
IBM Passport Advantage	as of Nov 2014
IBM Software Usage Analysis (SUA)	9.0, 9.1 (when running on an IBM DB2 database)
Microsoft App-V Integration Server	4.6, 5.0, 5.1
Microsoft Exchange ActiveSync	2007, 2010
Microsoft SMS/SCCM	2003, 2007, 2012, 2012 R2, 1511, 1602, 1606, 1610, 1702, 1706
Oracle Database	8i, 9i, 10g, 11g, 11g Release 2, 12c Notes: <ul style="list-style-type: none"> • 8i - requires a direct inventory beacon connection • 9i - requires a named account on Windows or a direct inventory beacon connection • 12c – the Oracle Multitenant option is not supported using a local agent.
Oracle VM Server for x86	3.2 to 3.4.3
ServiceNow	Geneva Patch 5, Helsinki, Istanbul and Jakarta
Symantec IT Management Suite (Altiris)	6.5, 7.1, 7.5
VMware vSphere vCenter	2.5 to 6.5
VMware vSphere ESX/ESXi	3.5 to 6.5 <i>Note: Remote inventory is not possible on the free license versions of ESXi.</i>
Workflow Manager	2014 to 2016

Inventory Components

The following table lists the versions of the FlexNet Beacon and FlexNet inventory agent that can be managed by FlexNet Manager Suite 2017 R2.

Component	Compatible Versions
FlexNet Beacon	2014 to 2017 R2 Citrix XenApp inventory requires FlexNet Beacon 2014 R2 or later.

Component	Compatible Versions
FlexNet inventory agent (Windows)	8.4 to 9.2 and 2014 to 2017 R2
FlexNet inventory agent (Linux)	<p>Note: Earlier versions are compatible in that they receive default policy and collect inventory on schedule. They cannot support more recent agent functionality, such as:</p> <ul style="list-style-type: none"> Internet Protocol version 6 (IPv6) Control of usage tracking through UI settings (rather than .ini files and registry controls), from 2014 (R1) Settings targeted by IP addresses, from 2014 (R1) CAL inventory, from 2016 R1.
FlexNet inventory agent (Solaris)	
FlexNet inventory agent (Mac OS X)	
FlexNet inventory agent (AIX)	
FlexNet inventory agent (HP-UX)	
Citrix XenApp server agent	2014 R3 to 2017 R2

FlexNet Report Designer Compatibility

The following versions of FlexNet Report Designer are compatible with the on-premises release of FlexNet Manager Suite 2017 R2.

Component	Compatible Versions
FlexNet Report Designer	2016 R1

Known Issues

A list of known issues for the FlexNet Manager Suite 2017 R2 release is available from the Flexera support site at the time of release. Please refer to Knowledge Base article [Known Issues for FlexNet Manager Suite 2017 R2](#) for details.

Documentation

Documentation for FlexNet Manager Suite 2017 R2 is provided as online help. From the web user interface, click the question mark icon to launch the help. Additional documents are available from the title page of the online help. Note that both the online help and additional documents are customized for their different contexts, so that appropriate differences exist between the on-premises and cloud versions of all documentation. On-premises customers can also access the additional documentation files from the [Documentation Center](#).

Documentation Component	Language
Online help	English German French - for FlexNet Manager for SAP Applications functionality.
Additional documents	English German – only for FlexNet Manager for SAP Applications user and installation guides.

Documentation Component	Language
All other additional documents	English
BMC Remedy ITSM Applications	7.6.04 SP4

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

More Information

Item	Description
Flexera website	Information about Flexera http://www.flexera.com
Support	Support website, including the Knowledge Base https://flexeracommunity.force.com/customer
Product downloads	Flexera Product and License Center https://flexera.flexnetoperations.com/flexnet/operationsportal/start Page.do
Email sign-up for product announcements	For notification of FlexNet Manager Suite software updates, including hot fixes http://learn.flexerasoftware.com/SLO-FMS-Software-Content-Library-Updates