

FlexNet Manager Suite 2015 R2 SP5

FlexNet Manager Suite 2015 Release 2 Service Pack 5

Release Notes

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The current edition of these Release Notes is published [here](#).

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Introduction

FlexNet Manager Suite provides software asset, hardware asset, and contract management for enterprises across 18,333 publishers and 182,000 applications. It reports detailed installed software, application usage, and purchase information, and reconciles these to provide a matching 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 Purchase Order 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 IBM
- FlexNet Manager for Microsoft
- FlexNet Manager for Oracle
- FlexNet Manager for SAP Applications
- FlexNet Manager for Symantec
- 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

There are no new features in this release.

Changes from Previous Releases

Duplicate Device Fix

Previously, duplicate devices could be created if a device was imported from two inventory sources, where each source used a different separation character (ie a dash and a colon) for the MAC address. FlexNet Manager Suite would identify these as separate devices. This duplication is now eliminated by updating any occurrence of the dash separation character, to a colon.

Any existing data using the old separator will be updated during the database migration step of the update process.

License Optimization Improvements

The following license consumption changes have been implemented to improve the consumption of licenses. This is achieved by moving installations to licenses where they will not consume any entitlements.

Second Use Rights

License rules for right of second use include the ability to consume a single entitlement for a user, when there is a work *laptop* that can be considered their secondary computer. This improvement targets the specific scenario where both computers are *laptops*, and the installed application is linked to multiple licenses. When these licenses contain a combination of the settings **No second use rights** and **Second use on work laptop**, license consumption is improved by consuming the license(s) with the second use right enabled, first.

Note that the scenario of a *desktop* computer and rights of second use on a *laptop* is not affected by this change, as the optimization is already performed.

Application and Desktop Virtualization

License rules for application virtualization and desktop virtualization technologies include the ability to consume a single entitlement for a user, regardless of the number of endpoints they access the software from. This improvement targets applications that are linked to multiple licenses with a combination of the settings **Consume one entitlement per device owned by each user** and **Consume one entitlement for each user**. In these scenarios, license consumption is improved by consuming the license(s) which consume one entitlement per user, first.

Removal of Windows directories from SCCM imports

File Evidence will no longer be imported from Windows operating system directories as these files do not represent licensable applications. The change is being introduced to reduce the importer times and to reduce the load on the database. This is achieved by inspecting the imported evidence for the path `:\Windows%`

Removal of Windows directories from managed FlexNet inventory agent scans

An extension of the change, introduced in 2015 R2 SP4, has been introduced that will exclude Windows operating system directories when scanning for file evidence for all managed FlexNet inventory agents. The previous change only affected the 2015 R2 SP4 agent, whilst this change will affect all agents that are managed by Beacon servers.

This change has been introduced to reduce the time taken to process inventory that contains no licensable applications, and it is achieved using the setting `ExcludeDirectory = $(WinDirectory)` preference, via the settings package.

Separated Operator Access Rights for Devices

The available operator access rights controls have been extended by splitting the previous **Devices** access right into:

- **Discovery Devices**
- **Inventory Devices**

This change has been made to ensure that operators, who should only have a limited view of an organization (because their Role is scoped), cannot see any data relating to devices outside of their scope. As Discovery information is not scoped, it may now be excluded from roles.

Limiting an operator's view of discovery devices, so that they may only view inventory devices, will remove some of the Discovery options displayed in the navigation menu. Examples of the items that may be limited are: **Unmanaged Devices, All Discovered Devices, Raw Software Usage & Create a Discovery Device.**

When performing an upgrade of FlexNet Manager Suite, the existing Devices access rights will not change as the existing setting will be duplicated on both new settings.

Database Upgrade Time Requirement

The time required to upgrade the Data Warehouse database, has increased significantly compared with previous releases. Whilst the specific upgrade time will vary, based on the quantity of data in the database, expect the upgrade of *this* database to increase by four times over previous upgrades.

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 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.

Installation and Upgrade Procedures

This FlexNet Manager Suite 2015 R2 SP5 release contains all installation media required for a full installation of this product. It does not require the previous installation of FlexNet Manager Suite to be present.

Due to the scale of changes contained in this release, a full installation is required.

There are four documents that provide instructions for installing and upgrading to FlexNet Manager Suite 2015 R2 SP5.

- "Installing FlexNet Manager Suite 2015 R2 SP5 On Premises"
- "Installing FlexNet Manager Suite 2015 R2 SP5 for a Managed Service"

- “Upgrading FlexNet Manager Suite from 2014 Rx to 2015 R2 SP5 On Premises”. *This is designed for upgrades from FlexNet Manager Platform, version 2014 or later*
- “Migrating to FlexNet Manager Suite 2015 R2 SP5 On Premises”. *This covers migration from FlexNet Manager Platform 9.2 to FlexNet Manager Suite 2015 R2 SP5). 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 2015 R2 SP5** 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.

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.

Licenses for FlexNet Manager Platform 9.0 and later are compatible with FlexNet Manager Suite 2015 R2 SP5.

Resolved Issues

The following issues have been resolved in **FlexNet Manager Suite 2015 R2 SP5** release since the release of **FlexNet Manager Suite 2015 R2 SP4**.

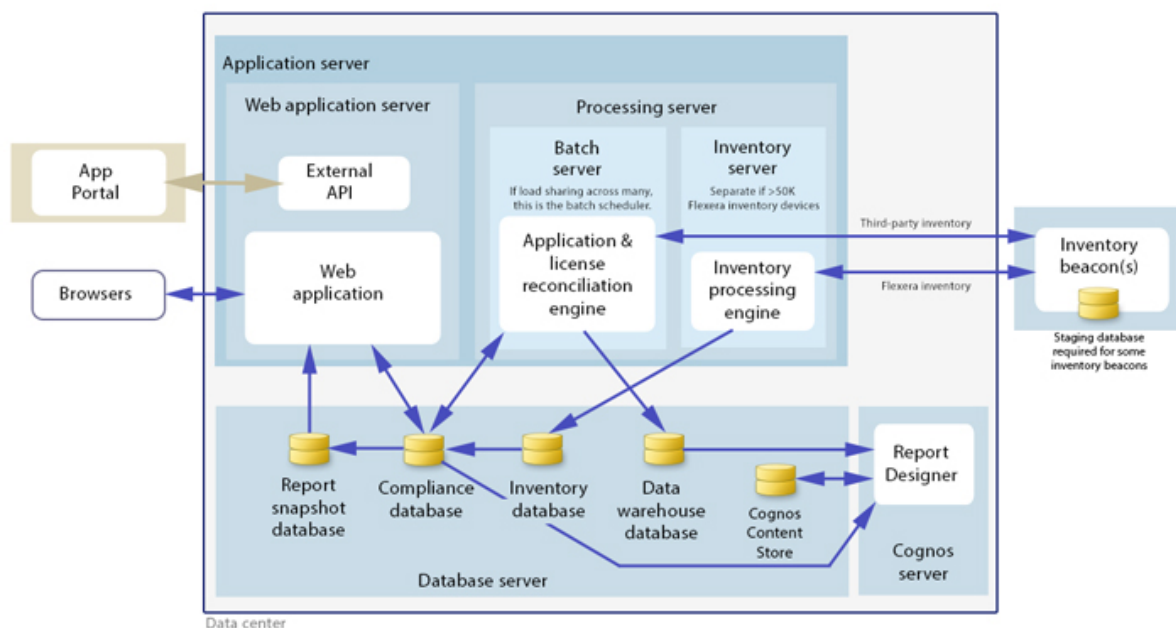
Issue Number	Summary
FNMS-30381	Different MAC address syntax will cause duplicate discovered device records
FNMS-31886	License consumption may not be fully optimized when multi-use rights are only available in lower priority licenses
FNMS-30630	The edition information, for some installations of Microsoft Exchange, is not being imported from the FlexNet inventory agent
FNMS-31442	The "IBM PVU License Consumption" report does not implement data scoping, any user can see all devices in the report
FNMS-31553	License Reconcile fails when a computer has a NULL name
FNMS-31719	The 'User License Details' report does not implement scoping
FNMS-31714	The 'Device License Details' report does not implement scoping for the devices
FNMS-31945	Long running imports may prevent transaction log truncation
FNMS-30980	Scoping in data warehouse is broken when identity fields are set to 1
FNMS-28991	The 'License Type' displayed in the License page displays '[21]' instead of 'SAP Named User'
FNMS-15723	Installer Evidence Install date may not be updated if first imported install and discovery date is NULL
FNMS-25901	License Reconcile may fail if a license is deleted while it is running
FNMS-32046	The 'Compliance Trend' report fails with a database recursion error when more than 100 objects selected
FNMS-28456	Red bar error displayed when creating a currency exchange rate set
FNMS-28584	Duplicate devices may be displayed when the devices last data source property is not updated in the database
FNMS-27384	Compliance import may fail when applying reconcile results, due to a foreign key violation, caused by deleting allocations during an import
FNMS-26795	Displaying the "Discovery and inventory rules" page may take minutes to load with increasing history records
FNMS-31187	Performance of Enterprise group assignments uploads is unacceptable with 200k rows of data
FNMS-31987	An import of the SKU/PURL libraries may freeze during the process "DELETE FROM SoftwareSKU"
FNMS-30492	ILMT inventory imports do not recognise operating systems with short naming convention
FNMS-31376	License activation Wizard does not display the 'BMC Atrium Option' when the license is enabled
FNMS-29955	A baseline import, where the file name includes and underscore character, will truncate if the name is over 35 characters long

FNMS-21072	Inconsistent license compliance calculations for assets recorded as 'In Storage'
FNMS-31463	Devices that were populated by a beacon discovery scan, no longer appear if the rule is deleted later
FNMS-31325	The number of concurrent instances of the SAPReader process are unlimited, which may cause performance issues in multi-tenant environments
FNMS-31126	Altiris installer evidence may not be imported correctly when installer evidence with the same display name and publisher has already been imported
FNMS-30803	SCCM adapter inventory is importing Operating System file evidence, which is unnecessary.

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 R2 SP5 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.

Network Requirements

Network

- Internet Protocol version 4

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:** 2GB for 50 snapshots (based on 1,000 licenses)
 - **Data warehouse database logs:** 8GB for 50 snapshots (based on 1,000 licenses)
 - **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, 2GB or higher recommended
- **Minimum free disk space:** 25MB installation + 100MB workspace

Pre-requisite software

The table below describes the supported operating systems and software pre-requisites of FlexNet Manager Suite 2015 R2 SP5 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	Pre-requisite software
Application server	<ul style="list-style-type: none">• Windows Server 2012 R2• Windows Server 2012• Windows Server 2008 R2 x64 SP1-SP2• Windows Server 2008 x64 SP1-SP2	<ul style="list-style-type: none">• .NET Framework 4.0 to 4.5.2• If using .NET Framework 4.0: Microsoft .NET Framework updates: KB2600211 and KB2836939

Component	Operating system	Pre-requisite software
		<ul style="list-style-type: none"> 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 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 <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 <p>Note: Cognos server is not supported in Multi-tenant installations</p>
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	<p>A minimum viewing area of 1024 horizontal pixels is required.</p>	<ul style="list-style-type: none"> Internet Explorer 9.0 to 11.0 Firefox 24 + Chrome 34 + Safari 6, 7 <p>Note that Silverlight 5 is required for multi document upload support in Internet Explorer, Firefox and Chrome.</p>

Component	Operating system	Pre-requisite software
FlexNet Report Designer		<ul style="list-style-type: none"> Internet Explorer 9.0
FlexNet Inventory Agent	<ul style="list-style-type: none"> 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 Windows 7 Windows 7 x64 Windows 8 Windows 8 x64 Windows 10 Windows 10 x64 Ubuntu 12 - 15 (x86-64 only) Debian 6, 7 (x86-64 only) RedHat Linux 8 and 9 (x86-64 only) RedHat Enterprise Linux 3, 4, 5, 6 (x86-64 only) CentOS 4 – 7 (x86-64 only) Fedora 6 – 11 & 18 – 23 (x86-64 only) Oracle Linux 4.5 – 7.0 (x86-64 only) SuSE Professional 12, 13 (x86-64 only) SuSE Enterprise Server 11 & 12 (x86-64 only) Solaris 9, 10, 11 (x86-64), Zones for versions 10 & 11 Solaris 8, 9, 10, 11 (SPARC), Zones for versions 10 & 11 Mac OS X 10.6, 10.7, 10.8, 10.9, 10.10, 10.11 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 	<ul style="list-style-type: none"> .NET Framework 4.0 to 4.5.2 If using .NET Framework 4.0: Microsoft .NET

Component	Operating system	Pre-requisite software
	<ul style="list-style-type: none"> 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 	Framework updates: KB2600211, KB2836939 and KB2468871 <ul style="list-style-type: none"> 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 SP5 with other Flexera Software products at the time of release. Please refer to knowledge base article [Supported Configurations for FlexNet Manager Suite 2015 R2 SP5](#) 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 SP5 application server.

Component	Version that can be installed on the same server as FlexNet Manager Suite 2015 R2 SP5
FlexNet Inventory Agent	2015 R2 SP5
FlexNet Beacon	2015 R2 SP5
FlexNet Report Designer	2014 R2 (current release)

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, 1511, 1602
IBM License Metric Tool (ILMT)	7.2, 7.5, 9.0, 9.1 (when running on an IBM

Product / component	Versions that can be imported from
	DB2 database)
IBM Software Usage Analysis (SUA)	9.0, 9.1 (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, 10.1, 10.2
BMC Atrium CMDB	8.1 together with Atrium Integrator version 8.1
BMC Remedy ITSM Applications	7.6.04 SP4
HP Discovery and Dependency Mapping Inventory (DDMI)	9.10, 9.30
HP Universal Discovery (HP UD)	10.10, 10.11 <i>(Does not include HP UD for Oracle LMS)</i>
BladeLogic Client Automation (Marimba)	8.2
Tivoli End Point Manager (BigFix)	8.2
ServiceNow	Fuji, Eureka, Dublin
IBM Passport Advantage	as of Nov 2014
FlexNet Manager for Engineering Applications	14, 15.1, 15.2, 15.3, 15.4, 15.5
FlexNet Manager for SAP Applications	5.6 – 2015 R2
Citrix XenApp Server	6.0, 6.5, 7.5, 7.6
Citrix XenApp EdgeSight	5.4, 7.6 (requires a Platinum license)
Citrix XenDesktop	5.6, 7.5, 7.6 Only these versions are supported, intermediate releases such as 7.0, 7.1 and 7.7 are not supported
Microsoft App-V Integration Server	4.6, 5.0, 5.1
Oracle Database	8i, 9i, 10g, 11g, 11g Release 2, 12c
VMware vSphere vCenter ESX / ESXi	2.0 to 6.1 2.0 to 6.1 Note remote inventory is not possible on the free license versions of ESXi

Product / component	Versions that can be imported from
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 SP5.

Component	Compatible versions
FlexNet Beacon	2014 to 2015 R2 SP5 Please refer to compatibility with Citrix below
FlexNet Inventory Agent (Windows)	8.4 to 9.2 and 2014 to 2015 R2 SP5
FlexNet Inventory Agent (Linux)	
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 2015 R2 SP5

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 SP5. 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 SP5.

Component	Compatible versions
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Component	Compatible versions
FlexNet Report Designer	2014 R2

Known Issues

A list of known issues for the FlexNet Manager Suite 2015 R2 SP5 release is available from the Flexera Software support site. Please refer to Knowledge Base article [Known Issues for FlexNet Manager Suite 2015 R2 SP5](#) for details.

Other Resources and Links

Documentation

Documentation for FlexNet Manager Suite 2015 R2 SP5 is provided as online help. From the web user interface, click the question mark icon to launch the help. Additional PDF documents are available from the title page of the online help. Note that both the online help and the additional PDF 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 PDF files from the [Product and Licensing Center](#).

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	https://flexeracomunity.force.com/customer
Product downloads	Flexera Software Product and License Center	https://flexerasoftware.flexnetoperations.com/
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