

# FlexNet Manager for Engineering Applications 2016 R2 Release Notes

February 2017 (revised February 2018)

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**Note** • These release notes are not cumulative. If you are upgrading from a release other than the most recent release, consult the release notes that accompany the intermediate releases. You can access the release notes archive from Flexera Software’s Product and License Center: <https://flexerasoftware.flexnetoperations.com>.

## Introduction

FlexNet Manager for Engineering Applications enables enterprises to gain a greater understanding of how software licenses are being used globally, by providing the information needed to centralize and accurately report on license usage. This results in reduced software expenses, increased employee productivity, reduced administrative costs, and improved compliance with software license contracts.



**Important** • FlexNet Manager for Engineering Applications supports only https protocol for use with flexnet admin server commands (for example, `bulkimport`, `importoptionsfile`, `importorgstructure`, and so on). If you have scripts that refer to these commands and that use the `-s` parameter (to specify the FlexNet Manager for Engineering Applications server URL), you will need to update your scripts to refer to an https connection.

## New Features

FlexNet Manager for Engineering Applications 2016 R2 includes the following new features:

- [Virtual Organizational Structures](#)
- [Cross-Dimensional \(Hybrid\) Organizational Structures](#)
- [Custom User Attributes for Organizational Structures](#)
- [FlexNet Report Designer 2016 R2 Linux Installer](#)



**Important** • FlexNet Manager for Engineering Applications Foundation Edition does not include FlexNet Report Designer.

# Virtual Organizational Structures

Using virtual organizational structures, you can create ad hoc organizational structures for use in reporting. You can use virtual organizational structures to combine usage for users that belong to multiple organizational structures—for example, users who are part of a specific department and a specific geographic location. You can create virtual organizational structures by defining them in a CSV file and importing the CSV file in FlexNet Manager for Engineering Applications.

You define virtual organizational structures using a CSV file, and import this definition using the existing organizational-structure-import functionality available in FlexNet Manager for Engineering Applications.

# Cross-Dimensional (Hybrid) Organizational Structures

FlexNet Manager for Engineering Applications 2016 R2 provides you with the ability to enable user-based organizational structures for cross-dimensional (or *hybrid*) aggregation. This hybrid aggregation provides enables you to report on both organizational structure *and* license server-based usage.

When you enable hybrid aggregation for an organizational structure, you identify the specific vendor daemons for which you want to see hybrid usage data. You can enable hybrid aggregation for both new and existing user-based organizational structures.

# Custom User Attributes for Organizational Structures

With this release, you can add up to 13 custom fields for user attributes for user-based organizational structures. These custom attributes enable you to provide additional information for users that you add to you organizational structures—whether you add the users manually or via LDAP import. These custom user attributes can be used in reporting.

# FlexNet Report Designer 2016 R2 Linux Installer

FlexNet Report Designer 2016 R2 is available for Linux operating systems.



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**Important** • FlexNet Manager for Engineering Applications Foundation Edition does not include FlexNet Report Designer.

# Upgrade Procedures

Upgrading to FlexNet Manager for Engineering Applications 2016 R2 requires that you start with FlexNet Manager for Engineering Applications 15.3 or later.

You can install FlexNet Manager for Engineering Applications 2016 R2 as an upgrade using your existing hardware. However, for optimal performance, use the specifications described in the section, [System Requirements](#), on page 6.

See the *FlexNet Manager for Engineering Applications 2016 R2 Installation Guide* for upgrade instructions.



**Note** • Please contact Flexera Software Support if you need to upgrade from a version of FlexNet Manager for Engineering Applications that is earlier than 15.3.

## Resolved Issues


The following issues were resolved in the FlexNet Manager for Engineering Applications 2016 R2 release.

Issue Number	Description
<b>IOJ-1799244</b>	The Usage Summary report shows an incorrect number for Total Hours Used.
<b>IOJ-1799115</b>	Cognos error: The user does not have the assigned capability to use 'HTMLItem' layout element.
<b>IOJ-1780995</b>	JDBC JNDI datasource error: Failed to get availability for leaf node.
<b>IOJ-1782025</b>	Running the Classic Usage Summary report locks the database.
<b>IOJ-1773327</b>	DSL .drl import fails when user ID is missing.
<b>IOJ-1773222</b>	On the <b>Concurrent by Feature - Summary</b> page, the count of licenses in use is incorrect.
<b>IOJ-1772822</b>	FlexNet Manager for Engineering Applications should not start aggregation while organizational-structure import is running.
<b>IOJ-1766601</b>	FlexNet Manager for Engineering Applications fails when attempting to start the Reporting module using a database password that contains special characters.
<b>IOJ-1754682</b>	Running Classic reports slows Cognos report execution.
<b>IOJ-1752034</b>	Aggregation does not handle duplicate grouping properly.
<b>IOJ-1723640</b>	The Feature Peak Usage Trend report (Cognos) shows incorrect peak-usage data.

Issue Number	Description
IOJ-1751931	On the <b>Configure and Manage Vendor Daemon</b> page, clicking the <b>View Debug Log</b> link results in an error message.
IOJ-1723335	Product-to-feature (1:1) usage numbers do not match when comparing Classic Peak Usage report to FlexNet Report Designer Product Peak Usage Trend report.
IOJ-1666652	When a user stops the license manager, the status does not update automatically when page is refreshed.
IOJ-1651677	The Raw report does not show denied records if the reason ID is greater than 127 and the database is Oracle.

## Enhancements

The following customer-requested enhancements are available in FlexNet Manager for Engineering Applications 2016 R2.

Issue Number	Description
<b>Multiple</b>	Refactored the aggregation process to improve aggregation performance.
IOJ-1779756	Add support for TLS 1.2 protocol.   <b>Important</b> • Due to known vulnerabilities in various communication protocols, the only supported SSL protocol for FlexNet Manager for Engineering Applications 2016 R2 is TLS 1.2.
IOJ-1764220	Provide support for <i>virtual organizational structures</i> —organizational structures that combine two different properties (for example, geographic and organizational).
IOJ-1764209	Provide support for <i>hybrid</i> (multi-dimensional) organizational structures and reporting. This will enable enterprises to report on usage across location or cost center, combined with usage on a specified license server.
IOJ-1730628	Add support for custom user attributes for organizational structures.
IOJ-1659374	The licensing model for FlexNet Manager for Engineering Applications 2016 R2 enables organizations to license FlexNet Manager for Engineering Applications for a specified number of distinct vendors. This eliminates an issue where named vendor daemons were removed from a license file, but contained in the report log file for common vendor daemon.

# System Requirements

To install and configure FlexNet Manager for Engineering Applications 2016 R2, you need a basic understanding of the system environment. The following sections describe the specific requirements.



**Important** • For upgrade installations, you can install FlexNet Manager for Engineering Applications 2016 R2 using your existing hardware. However, for optimal performance, use the specifications described in this section.

## CPU Cores

FlexNet Manager for Engineering Applications 2016 R2 has the following minimum CPU-core requirements. These are separate requirements for each machine.

Server machine	Minimum CPU core requirement
Admin	8-core CPU
Reporting	8-core CPU

## Servers

Determine the number of required servers based on the following:

- FlexNet Manager for Engineering Applications has two servers (Admin and Reporting). These two servers should be installed on physically separate machines—the servers *should not share the same hardware*.
- It is recommended that you have a dedicated database server for *each* FlexNet Manager for Engineering Applications server (one database server for Admin and one database server for Reporting).
  - The database server machines should not be shared with FlexNet Manager for Engineering Applications servers.
  - They should be on physically separate hardware from the FlexNet Manager for Engineering Applications servers.

# RAM

RAM requirements and recommendations for each component include the following.

Component	RAM requirement
<b>FlexNet Manager for Engineering Applications 2016 R2 Admin server</b>	<ul style="list-style-type: none"><li>• 8 GB (64-bit JVM) is required</li><li>• 16 GB is recommended</li></ul>
<b>FlexNet Manager for Engineering Applications 2016 R2 Reporting server</b>	16 GB <b>High-load:</b> For organizations with a heavy reporting load, it is recommended that the Reporting server run on a 64-bit server with 32 GB RAM.
<b>Database servers</b>	<ul style="list-style-type: none"><li>• 16 GB for Admin server</li><li>• 16 GB for Reporting server</li></ul>
<b>FlexNet Report Designer 2016 R2</b>	4 GB

## Hard Drive Space

Hard-drive-space requirements for FlexNet Manager for Engineering Applications components and database servers depend on the volume of reporting data.

## FlexNet Manager for Engineering Applications and FlexNet Report Designer

These are the minimum requirements for hard-drive space.

- **FlexNet Manager for Engineering Applications Admin server**—1 GB
- **FlexNet Manager for Engineering Applications Reporting server**—1 GB
- **FlexNet Report Designer**—5 GB
- **Data directory**—The required space depends upon the volume of report data.
  - If you know the approximate volume of your organization's report data, Flexera Software recommends the following calculation to help you determine the required hard drive space:  
 $(1 \times \text{total size of all report log files}) + (2 \times \text{size of report output})$
  - If you do not know the approximate volume of your organization's report data, 100 GB is the recommended minimum size.

## Database Servers

These are the minimum requirements for hard-drive space.



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**Note** • Refer to system requirements from your database vendor and the database-specific appendices in the *FlexNet Manager for Engineering Applications 2016 R2 Installation Guide* for memory and space recommendations for the machines that hosts the databases.

- **FlexNet Manager for Engineering Applications Admin database**—20 GB
- **FlexNet Manager for Engineering Applications Reporting database**—The required space depends upon the volume of report data and whether your organization uses FlexNet Report Designer.
  - If you are using only Classic reporting:
    - If you know the approximate volume of your organization’s report data, Flexera Software recommends the following calculation to help you determine the required hard drive space:  
 $4 \times \text{total size of all report log files}$
    - If you do not know the approximate volume of your organization’s report data, 500 GB is the recommended minimum size.
  - If you are using FlexNet Report Designer:
    - If you know the approximate volume of your organization’s report data, Flexera Software recommends the following calculation to help you determine the required hard drive space:  
 $8 \times \text{total size of all report log files}$
    - If you do not know the approximate volume of your organization’s report data, 1 TB is the recommended minimum size.
    - Regardless of the report-data volume, the minimum hard-drive requirement for the Cognos content store is 150 MB.



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**Tip** • Aggregated data for serving FlexNet Report Designer reports require additional database hard-drive space. The required hard-drive space depends upon the number of organizational structures and your enterprise’s use of Investment Planner functionality. You can manage this space requirement according to your business needs and can reduce it by defining a Usage Data Retention policy using the **Usage Data Maintenance** screen (available under the **Reporting** tab in the FlexNet Manager for Engineering Applications user interface).



# Web Browsers

Connect to FlexNet Manager for Engineering Applications using one of the following supported Web browsers:

- Mozilla Firefox, version 40 (and future fix packs)
- Microsoft Internet Explorer, version 11.x (and future fix packs)



**Note** • Ensure that Microsoft Internet Explorer is not configured to display FlexNet Manager for Engineering Applications in compatibility view. To check this:

1. From within the browser window, click Tools, then click **Compatibility View settings**.
2. In the **Compatibility View Settings** dialog, ensure that the FlexNet Manager for Engineering Applications Admin website is not listed in the **Websites you've added to Compatibility View** box.
3. Clear the **Display intranet sites in Compatibility View** check box.
4. Click **Close**.

# Web Servers (for FlexNet Report Designer 2016 R2)

If you are using FlexNet Report Designer 2016 R2, you must install, configure, and test a supported web server. Refer to the installation, configuration, and testing documentation provided by the web-server vendor.

FlexNet Report Designer 2016 R2 is supported for use only on the web servers listed in this section. With regard to the use of FlexNet Report Designer, Flexera Software distinguishes between *supported* and *compatible* web servers.

## Supported Web Servers

Supported web servers are those which are currently tested by Flexera Software.

- Apache HTTP Server, 2.4 and future fix packs
- Microsoft Internet Information Services 7.0, 7.5, 8.0, 8.5, and their future fix packs

## Compatible Web Servers

Compatibility is based on limited testing by Flexera Software or on compatibility statements from Flexera Software partners and/or third-party vendors.

FlexNet Report Designer 2016 R2 is compatible for use with the web servers and versions listed on the Detailed System Requirements page for Cognos Business Intelligence 10.2.2.0:

<http://www-969.ibm.com/software/reports/compatibility/clarity-reports/report/html/prereqsForProduct?deliverableId=1391013543612#sw-18>

To view the web servers, click the **Supported Software** tab, then click the **Web Servers** link.

# Supported Operating Systems for Different Configurations

FlexNet Manager for Engineering Applications 2016 R2 is compatible with the following operating systems, depending on the FlexNet Manager for Engineering Applications configuration your enterprise deploys. Two FlexNet Manager for Engineering Applications configurations are supported—[FlexNet Manager for Engineering Applications with FlexNet Report Designer 2016 R2](#) and [FlexNet Manager for Engineering Applications without FlexNet Report Designer 2016 R2](#).

FlexNet Manager for Engineering Applications 2016 R2 and FlexNet Report Designer 2016 R2 are not supported for operation with other versions of these operating systems. Consult the appropriate third-party documentation for installation and usage information. Flexera Software assumes that you have an in-depth understanding of your system environment and the operation of these operating systems prior to installing FlexNet Manager for Engineering Applications 2016 R2 and/or FlexNet Report Designer 2016 R2.

See the section, [Supported Databases](#), for a list of the databases supported for use with both FlexNet Manager for Engineering Applications 2016 R2 and FlexNet Report Designer 2016 R2.

## FlexNet Manager for Engineering Applications with FlexNet Report Designer 2016 R2



**Important** • *FlexNet Manager for Engineering Applications 2016 R2 requires FlexNet Report Designer 2016 R2, if you want to use FlexNet Report Designer functionality.*

This configuration includes the core FlexNet Manager for Engineering Applications components (Admin and Reporting), as well as FlexNet Report Designer.

- You can install the FlexNet Manager for Engineering Applications components (Admin and Reporting) to physically separate machines running any of the supported operating systems listed in the section, [Supported Operating Systems Not Using FlexNet Report Designer 2016 R2](#).
- You must install FlexNet Report Designer 2016 R2 to a system running one of the supported Microsoft Windows versions. See the following section, [Supported and Compatible Operating-System Versions Using FlexNet Report Designer 2016 R2](#).

# Supported and Compatible Operating-System Versions Using FlexNet Report Designer 2016 R2

FlexNet Report Designer 2016 R2 is supported for use on the listed Microsoft Windows and Red Hat Enterprise Linux (RHEL) versions.

With regard to the use of FlexNet Report Designer, Flexera Software distinguishes between *supported* and *compatible* operating systems.

- **Supported operating systems** are those which are currently tested by Flexera Software.
- **Compatible operating systems** are based on limited testing by Flexera Software, or on compatibility statements from Flexera Software partners and/or third-party vendors.

## Supported Microsoft Windows Versions

FlexNet Report Designer 2016 R2 is supported for use with the following versions of Microsoft Windows:

- Microsoft Windows Server 2012 R2 (Standard and Datacenter editions)
- Microsoft Windows Server 2012 (Standard and Datacenter editions)
- Microsoft Windows Server 2008 R2 Enterprise SP1
- Microsoft Windows Server 2008 Enterprise SP2

## Compatible Microsoft Windows Versions

FlexNet Report Designer 2016 R2 is compatible for use with the versions of Microsoft Windows listed on the **Detailed System Requirements** page for Cognos Business Intelligence 10.2.2.0:

<http://www-969.ibm.com/software/reports/compatibility/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1391013543612&osPlatform=Windows>

## Supported RHEL Versions

Supported operating systems are those which are currently tested by Flexera Software.

FlexNet Report Designer 2016 R2 is supported for use with the following versions of RHEL:

- Red Hat Enterprise Linux 7.x (x86\_64) (with required patches)
- Red Hat Enterprise Linux 6.x (x86\_64) (with required patches)

## Compatible RHEL Versions

FlexNet Report Designer 2016 R2 is compatible for use with the versions of RHEL listed on the **Detailed System Requirements** page for Cognos Business Intelligence 10.2.2.0:

<http://www-969.ibm.com/software/reports/compatibility/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1391013543612&osPlatform=Linux>

# FlexNet Manager for Engineering Applications without FlexNet Report Designer 2016 R2

This configuration includes only the core FlexNet Manager for Engineering Applications components—FlexNet Manager for Engineering Applications Admin and FlexNet Manager for Engineering Applications Reporting. It does not include FlexNet Report Designer.

## Supported Operating Systems Not Using FlexNet Report Designer 2016 R2

When deploying only the FlexNet Manager for Engineering Applications core components, without Report Designer, the supported operating systems are [Microsoft Windows](#) and [Red Hat Enterprise Linux](#).

### Microsoft Windows

- Microsoft Windows Server 2012 R2 (Standard and Datacenter editions)
- Microsoft Windows Server 2012 (Standard and Datacenter editions)
- Microsoft Windows Server 2008 R2 (Standard, Enterprise, Web, and Datacenter editions)
- Microsoft Windows Server 2008 SP2 (Standard, Enterprise, Web, and Datacenter editions)
- Microsoft Windows Server 2008 (Standard, Enterprise, Web, and Datacenter editions)

### Red Hat Enterprise Linux (RHEL)

- Red Hat Enterprise Linux 7.x (x86\_64) (with required patches)
- Red Hat Enterprise Linux 6.x (x86\_64) (with required patches)

## Supported Databases

FlexNet Manager for Engineering Applications 2016 R2 and FlexNet Report Designer 2016 R2 both require database servers to operate. The following databases and versions are supported for use with the FlexNet Manager for Engineering Applications 2016 R2 components (Admin and Reporting), and with FlexNet Report Designer 2016 R2.

FlexNet Manager for Engineering Applications 2016 R2 and FlexNet Report Designer 2016 R2 *are not supported* for operation with other versions of these databases. Consult the appropriate third-party documentation for installation and usage information. Flexera Software assumes that you have an in-depth understanding of your system environment and the operation of these databases prior to installing FlexNet Manager for Engineering Applications 2016 R2 and/or FlexNet Report Designer 2016 R2.

If your enterprise plans to use database partitioning and data compression, note the database versions that are required to support partitioning.

# Microsoft SQL Server

## Supported Versions for Use Without Partitioning and Data Compression

- Microsoft SQL Server 2014, Standard and Enterprise Editions
- Microsoft SQL Server 2012, Standard and Enterprise Editions

## Supported Versions for Use With Partitioning and Data Compression

- Microsoft SQL Server 2014 Enterprise Edition
- Microsoft SQL Server 2012 Enterprise Edition

# Oracle

The use of database partitioning and data compression is supported by Oracle 12c, Standard and Enterprise editions.

Oracle 12c, Standard and Enterprise editions—For FlexNet Report Designer, the Oracle 12c client is required on the machine where FlexNet Report Designer is installed.



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**Important** • *It is strongly recommended that you check with your organization's IT department to determine whether use of these database features will result in an additional cost.*

# Virtualization Support

FlexNet Manager for Engineering Applications is supported for use with virtualization technologies. Consult your vendor's website to confirm that the operating system compatibility corresponds with the supported operating systems for FlexNet Manager for Engineering Applications.

See the section, [Supported Operating Systems for Different Configurations](#), for information.

# Supported FlexNet Publisher License Servers

FlexNet Manager for Engineering Applications 2016 R2 supports the following FlexNet Publisher license servers:

- FlexNet Publisher 11.0 through FlexNet Publisher 11.14.1
- FlexNet Publisher 10.0 through FlexNet Publisher 10.8.10
- FlexNet Publisher 9.x
- FlexNet Publisher 8.x

# Supported FlexNet Agents

FlexNet Manager for Engineering Applications 2016 R2 is supported for use with the following FlexNet Agent versions:

- FlexNet Agent 5.3.x and later. FlexNet Agent 5.3.2 (or later) is recommended, to ensure compatibility with the broadest range of FlexNet Publisher versions.
- FlexNet Agent 4.x. The most recent FlexNet Agent 4.x release is recommended, to ensure compatibility with the broadest range of FlexNet Publisher versions.



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**Important** • Due to the re-architecture of communications introduced with FlexNet Agent 5 and FlexNet Manager for Engineering Applications 15.2, Flexera Software does not support environments where both FlexNet Agent 4.x and FlexNet Agent 5.x are deployed. A mixed deployment can lead to database-locking issues.

# Supported FlexNet Report Designer Version

FlexNet Manager for Engineering Applications 2016 R2 is supported for use only with FlexNet Report Designer 2016 R2. If your organization uses FlexNet Report Designer and you have an earlier version deployed, you will need to upgrade to FlexNet Report Designer 2016 R2.



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**Important** • FlexNet Manager for Engineering Applications Foundation Edition does not include FlexNet Report Designer.

# Legal Information

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