

# FlexNet Manager for Engineering Applications 2021 R1 Release Notes

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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 on the Flexera Product Documentation site, [docs.flexera.com](https://docs.flexera.com).

**Updates:** The latest publication of the Release Notes can also be accessed there.

## Introduction

FlexNet Manager for Engineering Applications enables enterprises to gain a greater understanding of how concurrent 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.

## Changes from Previous Releases

The following changes are from previous releases:

- [Adopt Open JDK 11 Support](#)
- [SUSE and Ubuntu Support](#)

## Adopt Open JDK 11 Support

FlexNet Manager for Engineering Applications provides an Open JDK support to avoid customer overhead budgets on Oracle JDK commercial licenses. FlexNet Manager for Engineering Applications supports a LTS of Adopt Open JDK 11 version.

- Upgraded Hibernate-ORM tool from 5.0.10 into **5.4.27**

Seamless support with Open JDK & Wildfly, also a new features Attribute converter, full-text search support etc.

- Upgraded Jboss Server from 8.2 into **Wildfly 20.0.1**

Seamless support with Open JDK, provides rich enterprise capabilities in easy to consume frameworks.

- Upgraded Spring Framework from 4.3.2 into **5.2.9**

Significant support for latest Open JDK versions which is powerful lightweight application development framework used for Enterprise Java application.

- Upgraded Tomcat Library from 8.0.15 into **9.0.44**

Latest Tomcat Jasper libraries provides extensive support for Open JDK and is used to detect JSP changes in the application.

- Upgraded Jaxb Library from 2.2.11 into **2.3.1**

Latest JAXB Library supports Open JDK which is used to convert Java Object into XML

- Upgraded Proguard Library from 5.2 into **6.2.2**

Latest Command-line tool version supports Open JDK which helps to shrinks, optimizes, and obfuscates Java code.



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**Important** • Some of the classic report types will not work as expected due to incompatibilities with the OpenJDK platform upgrade, namely the following: **Peak Usage Denial, Usage Efficiency Sample, Summary Bar Chart, High Water Mark and Usage Over Time**. You are advised not to create, edit, run, copy or schedule reports of these types. If you have existing reports for these types, please do not modify them or execute them. These reports will be addressed to work properly in the next release.

## SUSE and Ubuntu Support

We support FlexNet Manager for Engineering Applications 2021R1 on Open SUSE and Ubuntu operating systems.

## License Compatibility

This release does not require an updated license when upgrading from FlexNet Manager for Engineering Applications 2018 R1 (15.8) or FlexNet Manager for Engineering Applications 2016 R2 (15.7). Performing an upgrade from any earlier release will require an updated license to install FlexNet Manager for Engineering Applications 2021 R1.

If you require a new license key, please contact support@flexera.com. Once the license has been created, it will be emailed to the requester, and a copy stored in the Product and License Center. The updated license must then be imported into FlexNet Manager for Engineering Applications 2021 R1.

## Upgrade Procedures

Upgrading to FlexNet Manager for Engineering Applications 2021 R1 requires that you start with FlexNet Manager for Engineering Applications 15.3 or later.

You can install FlexNet Manager for Engineering Applications 2021 R1 as an upgrade using your existing hardware. However, for optimal performance, use the specifications described in the section, [System Requirements](#), on page 4.

See the *FlexNet Manager for Engineering Applications 2021 R1* Installation Guide for upgrade instructions.



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



**Important** • FlexNet Manager for Engineering Applications 2021 R1 does not support the use of FlexNet Agents before 5.x. It is **strongly** recommended that you migrate all your agents to version 5.x before upgrading the Manager. Any FlexNet Agents that are not migrated before upgrading will be unable to communicate with FlexNet Manager for Engineering Applications 2021 R1 until they have been migrated.

## Resolved Issues

The following issues were resolved in the FlexNet Manager for Engineering Applications 2021 R1 release:

Issue Number	Description
IOJ-2175553	Org structure update failing due to data type mismatch
IOJ-2117507	UI Issues when User has View access and permissions.

## Known Issues

The following issues are know issues in the FlexNet Manager for Engineering Applications 2021 R1 release:

Issue Number	Description
IOJ-2204891	Classic reports (HWM, PUD, SBC, UES, UOT) are not generating against Open JDK Build.
IOJ-2199575	Running flexnet-service is terminated on UNIX Platform.
IOJ-2194291	flexnet stop command is not stopping the server.
IOJ-2189043	Reporting server fails to start when admin server got started first or start both the servers together.
IOJ-2187685	Reporting tab freezes when click on Org.strucutre link for User with set of view permissions.

## System Requirements

To install and configure FlexNet Manager for Engineering Applications 2021 R1, you need a basic understanding of the system environment. The following sections describe the specific requirements.

- CPU Cores
- Servers
- RAM
- Hard Drive Space
- Web Browsers
- Web Servers (for Flexera Analytics 2020 R1)



**Important** • For upgrade installations, you can install FlexNet Manager for Engineering Applications 2021 R1 using your existing hardware. However, for optimal performance, use the specifications described in this section.

## CPU Cores

FlexNet Manager for Engineering Applications 2021 R1 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 2021 R1 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 2021 R1 Reporting server</b>	16 GB High-load: 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>Flexera Analytics 2020 R1</b>	16 GB

## Hard Drive Space

The following sections list the hard drive space system requirements:

- [FlexNet Manager for Engineering Applications and Flexera Analytics](#)
- [Database Servers](#)

### FlexNet Manager for Engineering Applications and Flexera Analytics

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
- Flexera Analytics**—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 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 2021 R1 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 Flexera Analytics.
  - **Classic reporting**—If you are using only Classic reporting:
    - If you know the approximate volume of your organization’s report data, Flexera 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.
  - **Flexera Analytics**—If you are using Flexera Analytics:
    - If you know the approximate volume of your organization’s report data, Flexera 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 Flexera Analytics 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 the latest version of one of the following supported Web browsers:

- Google Chrome
- Mozilla Firefox
- Microsoft Edge
- Microsoft Internet Explorer



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

- a. From within the browser window, click **Tools**, then click **Compatibility View settings**.
- b. 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.
- c. Clear the **Display intranet sites in Compatibility View** check box.
- d. Click **Close**.

## Web Servers (for Flexera Analytics 2020 R1)

Historically, FlexNet Report Designer used third party web servers.

Flexera Analytics 2020 R1, however, uses a built-in web server. Third party web servers are therefore not required.

## Supported Operating Systems for Different Configurations

FlexNet Manager for Engineering Applications 2021 R1 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 Flexera Analytics 2020 R1](#) and [FlexNet Manager for Engineering Applications without Flexera Analytics 2020 R1](#).

FlexNet Manager for Engineering Applications 2021 R1 and Flexera Analytics 2020 R1 are only supported for operation with the operating systems listed below. Consult the appropriate third-party documentation for installation and usage information. Flexera 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 2021 R1 and/or Flexera Analytics 2020 R1.

See the section, [Supported Databases](#), for a list of the databases supported for use with both FlexNet Manager for Engineering Applications 2021 R1 and Flexera Analytics 2020 R1.

## FlexNet Manager for Engineering Applications with Flexera Analytics 2020 R1



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**Important** • FlexNet Manager for Engineering Applications 2021 R1 requires Flexera Analytics 2020 R1, if you want to use Flexera Analytics functionality.

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



- 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 Flexera Analytics 2020 R1](#).
- You must install Flexera Analytics 2020 R1 to a system running one of the supported Microsoft Windows or Linux versions. See the following section, [Supported and Compatible Operating-System Versions Using Flexera Analytics 2020 R1](#).

## Supported and Compatible Operating-System Versions Using Flexera Analytics 2020 R1

Flexera Analytics 2020 R1 is supported for use on the listed Microsoft Windows and Red Hat Enterprise Linux (RHEL) versions.

With regard to the use of Flexera Analytics, Flexera distinguishes between *supported* and *compatible* operating systems.

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

The following sections list the supported and compatible operating system version using Flexera Analytics 2020 R1:

- [Supported Microsoft Windows Versions](#)
- [Compatible Microsoft Windows Versions](#)
- [Supported Linux Versions](#)
- [Compatible Linux Versions](#)

### Supported Microsoft Windows Versions

Flexera Analytics 2020 R1 is supported for use with the following versions of Microsoft Windows:

- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012

### Compatible Microsoft Windows Versions

Flexera Analytics 2020 R1 is compatible for use with the versions of Microsoft Windows listed on the [Detailed System Requirements](#) page for Cognos Analytics 11.0.13:

<https://www.ibm.com/software/reports/compatibility/clarity-reports/report/html/softwareReqsForProduct?deliverableId=133544F0545D11E88CA35FB9AF6FA368&osPlatform=Windows>

## Supported Linux Versions

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

Flexera Analytics 2020 R1 is supported for use with the following versions of Linux:

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

## Compatible Linux Versions

Flexera Analytics 2020 R1 is compatible for use with the versions of Linux listed on the [Detailed System Requirements](#) page for Cognos Analytics 11.0.13:

<https://www.ibm.com/software/reports/compatibility/clarity-reports/report/html/softwareReqsForProduct?deliverableId=133544F0545D11E88CA35FB9AF6FA368&osPlatform=Linux>

# FlexNet Manager for Engineering Applications without Flexera Analytics 2020 R1

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 Flexera Analytics.

## Supported Operating Systems Not Using Flexera Analytics 2020 R1

When deploying only the FlexNet Manager for Engineering Applications core components, without Flexera Analytics, the supported operating systems are [Microsoft Windows](#) and [Linux Platform](#).

### Microsoft Windows

- Microsoft Windows Server 2016
- Microsoft Windows Server 2012

### Linux Platform

- Red Hat Enterprise Linux 7.x (x86\_64) (with required patches)
- Red Hat Enterprise Linux 6.x (x86\_64) (with required patches)
- Ubuntu 20.04
- Ubuntu 16.04
- Open SUSE 12

# Supported Databases

The following databases and versions are supported for use with the FlexNet Manager for Engineering Applications 2021 R1 components (Admin and Reporting), and with Flexera Analytics 2020 R1.

FlexNet Manager for Engineering Applications 2021 R1 and Flexera Analytics 2020 R1 are not supported for operation with other versions of these databases. Consult the appropriate third-party documentation for installation and usage information. Flexera 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 2021 R1 and/or Flexera Analytics 2020 R1.

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

- [Supported Versions for Use Without Partitioning and Data Compression](#)
- [Supported Versions for Use With Partitioning and Data Compression](#)

## Supported Versions for Use Without Partitioning and Data Compression

The following table lists the supported database versions for use *without* partitioning and data compressions:

Database	Version	Edition
<b>Microsoft SQL Server</b>	2012	<ul style="list-style-type: none"><li>● Standard</li><li>● Enterprise</li></ul>
	2014	<ul style="list-style-type: none"><li>● Standard</li><li>● Enterprise</li></ul>
	2016	<ul style="list-style-type: none"><li>● Standard</li><li>● Enterprise</li></ul>
	2017	<ul style="list-style-type: none"><li>● Standard</li><li>● Enterprise</li></ul>
	2019	<ul style="list-style-type: none"><li>● Standard</li><li>● Enterprise</li></ul>
<b>Oracle</b>	12c Release 2	<ul style="list-style-type: none"><li>● Standard</li><li>● Enterprise</li></ul>
	19c	<ul style="list-style-type: none"><li>● Standard</li><li>● Enterprise</li></ul>
<b>PostgreSQL</b>	12.0	

## Supported Versions for Use With Partitioning and Data Compression

The following table lists the supported database versions for use *with* partitioning and data compressions.

Database	Version	Edition
Microsoft SQL Server	2012	Enterprise only
	2014	Enterprise only
	2016	Enterprise only
	2017	Enterprise only
	2019	Enterprise only
Oracle	12c Release 2	<ul style="list-style-type: none"><li>• Standard</li><li>• Enterprise</li></ul>
	19c	<ul style="list-style-type: none"><li>• Standard</li><li>• Enterprise</li></ul>



**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.

If using a cloud provider to provision the infrastructure to run FlexNet Manager for Engineering Applications, make sure that the provider's services meet the minimum standards outlined above for hardware and software. If using a cloud service for the database, be sure that it provides the needed level of access to create and modify the FlexNet Manager for Engineering Applications database.

## Supported FlexNet Publisher License Servers

FlexNet Manager for Engineering Applications 2021 R1 supports the following FlexNet Publisher license servers:

- FlexNet Publisher 11.0 through FlexNet Publisher 11.18.0
- FlexNet Publisher 10.0 through FlexNet Publisher 10.8.10
- FlexNet Publisher 9.2

# Supported FlexNet Agents

FlexNet Manager for Engineering Applications 2021 R1 is supported for use with the following FlexNet Agent versions:

- FlexNet Agent 5.3.2 and later

FlexNet Agent 5.5 (or later) is recommended, to ensure compatibility with the broadest range of FlexNet Publisher versions.



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**Important** • FlexNet Agent 4.x is not supported in FlexNet Manager for Engineering Applications 2021 R1. It is **strongly** recommended that you migrate all your agents to version 5.x before upgrading the Manager. Any FlexNet Agents that are not migrated before upgrading will be unable to communicate with FlexNet Manager for Engineering Applications 2021 R1 until they have been migrated.



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**Note** • The **Enable support for managing FlexNet Agent 5.x** option is no longer present in this release, because FlexNet Agent 5.x is enabled by default.

# Supported Flexera Analytics Version

FlexNet Manager for Engineering Applications 2021 R1 is supported for use only with Flexera Analytics 2020 R1. If your organization uses Flexera Analytics and you have an earlier version of FlexNet Report Designer deployed, you will need to upgrade to Flexera Analytics 2020 R1.

For full compatibility with FlexNet Manager for Engineering Applications 2021 R1, we recommend that you download and apply this Flexera Analytics package: **FlexNetManagerSuite.zip**. You can find this package For instructions on how to deploy this package, refer to Chapter 5 of the FlexNet Manager for Engineering Applications 2021 R1 Installation Guide, in the *Configure FlexNet Manager for Engineering Applications to work with Flexera Analytics* section.



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**Important** • FlexNet Manager for Engineering Applications Foundation Edition does not include Flexera Analytics.

# Legal Information

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