

# FlexNet Publisher 2025 R1 (11.19.8) Release Notes

March 2025  
Revision 01

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# Introduction

This Release Notes document summarizes the enhancements and updates delivered with FlexNet Publisher 2025 R1 (11.19.8) in March 2025. The document includes the following information:

- [Enhancements](#)
- [Security Updates](#)
- [Dongle Updates](#)
- [Platform Updates](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [System Requirements](#)
- [Deprecated Features and Commands](#)
- [Legal Information](#)

## Enhancements

This release includes the following enhancements:

- [Installation Support for Imgrd as a Service with Transferrable Counted Model—Windows](#)
- [Introduced Windows Server 2025 Support](#)

## Installation Support for Imgrd as a Service with Transferrable Counted Model—Windows

FlexNet Publisher 11.19.8 introduces support for installing Imgrd as a service with the Transferrable Counted Model (TCM) functionality. This installation can be configured using the `install.exe` command-line utility. With this enhancement, Imgrd can now run as a service to serve the transferred licenses.

For more information, see “Installing Imgrd as a Service (Windows Platforms)” in the *FlexNet Publisher Development Environment Guide*.

(Case 02918602, FNP-32873)

## Introduced Windows Server 2025 Support

FlexNet Publisher 11.19.8 introduces support for the Windows Server 2025 platform, which enables you to utilize the Windows-specific FlexNet Publisher kits on the Windows Server 2025 operating system.

(FNP-33275)

# Security Updates

This release includes the following security updates:

- [Third-Party Library Updates](#)

## Third-Party Library Updates

### Apache Axis Web Services

Apache Axis Web Services has been upgraded from version 1.4 to version Axis2 (1.8.2).

(FNP-33250)

### Apache httpd

Apache httpd has been upgraded from version 2.4.62 to version 2.4.63.

(FNP-33251)

### Apache xerces-c

Apache xerces-c has been upgraded from version 3.2.4 to version 3.3.0.

(FNP-33252)

### Boost

Boost has been upgraded from version 1.56.0 to version 1.87.0.

(FNP-33253)

### Crypto++

Crypto++ has been upgraded from version 8.6 to version 8.9.

(FNP-33254)

### libexpat

libexpat has been upgraded from version 2.6.3 to version 2.6.4.

(FNP-33255)

### Java Beans Activation Framework

Java Beans Activation Framework has been upgraded from version 1.1 to version 1.1.1.

(FNP-33256)

### libxml2

libxml2 has been upgraded from version 2.11.4 to version 2.13.5.

(FNP-33257)

### Apache mod-security

Apache mod-security has been upgraded from version 2.9.7 to version 2.9.8.

(FNP-33258)

### OpenLDAP

OpenLDAP has been upgraded from version 2.6.4 to version 2.6.9.

(FNP-33259)

## Dongle Updates

There is no dongle driver upgrade in this release.

## Platform Updates

This section lists platform updates for the following releases:

- [11.19.8 Updates](#)
- [11.19.7 Updates](#)
- [11.19.6 Updates](#)
- [11.19.5 Updates](#)

## 11.19.8 Updates

Updates have been made in the following areas for FlexNet Publisher 11.19.8:

- [Integrated Products and Tested Versions](#)
- [macOS](#)
- [Linux OS](#)
- [Windows OS](#)

## Integrated Products and Tested Versions

The following table lists the integrated products and tested versions for this release:

Product	Tested Version
<b>FlexNet Operations</b>	FlexNet Operations 2024.06 (24.6.0)
<b>FlexNet Manager for Engineering Applications</b>	FlexNet Manager for Engineering Applications 2024 R2 (15.18.0)

Product	Tested Version
FlexNet Operations Cloud	FlexNet Operations Cloud 2025.02 (25.02.62)

## macOS

### End of Life macOS 12

FlexNet Publisher no longer supports the macOS 12 platform from FlexNet Publisher release R1, 2025, onwards.

### End of Support macOS 13

FlexNet Publisher will not support the macOS 13 platform from FlexNet Publisher release R2, 2025, onwards.

## Linux OS

### End of Life SUSE Linux 15 SP2

FlexNet Publisher no longer supports the SUSE Linux 15 SP2 platform from FlexNet Publisher release R1, 2025, onwards.

### End of Life Ubuntu 20.04

FlexNet Publisher no longer supports the Ubuntu 20.04 platform from FlexNet Publisher release R1, 2025, onwards.

## Windows OS

### Support for Windows Server 2016

FlexNet Publisher reinstates support for the Windows Server 2016 platform from FlexNet Publisher release R1, 2025, onwards.

### Support for Windows Server 2025

FlexNet Publisher supports the Windows Server 2025 platform from FlexNet Publisher release R1, 2025, onwards.

# 11.19.7 Updates

Updates have been made in the following areas for FlexNet Publisher 11.19.7:

- [Integrated Products and Tested Versions](#)
- [macOS](#)
- [Linux OS](#)
- [HP-UX](#)

## Integrated Products and Tested Versions

The following table lists the integrated products and tested versions for this release:

Product	Tested Version
<b>FlexNet Operations</b>	FlexNet Operations 2022.05 (22.5.0)
<b>FlexNet Manager for Engineering Applications</b>	FlexNet Manager for Engineering Applications 2024 R1 (15.17.0)
<b>FlexNet Operations Cloud</b>	FlexNet Operations Cloud 2024.12 (24.12.97)

## macOS

### Support for macOS 15

FlexNet Publisher supports the macOS 15 platform from FlexNet Publisher release R2, 2024, onwards.

## Linux OS

### End of Life RHEL 7

FlexNet Publisher no longer supports the RHEL 7 platform from FlexNet Publisher release R2, 2024, onwards.

### End of Support SUSE Linux 15 SP2

FlexNet Publisher will not support the SUSE Linux 15 SP2 platform from FlexNet Publisher release R1, 2025, onwards.

### Support for SUSE Linux 15 SP6

FlexNet Publisher supports the SUSE Linux 15 SP6 platform from FlexNet Publisher release R2, 2024, onwards.

## End of Support Ubuntu 20.04

FlexNet Publisher will not support the Ubuntu 20.04 platform from FlexNet Publisher release R1, 2025, onwards.

## Support for Ubuntu 24.04

FlexNet Publisher supports the Ubuntu 24.04 platform from FlexNet Publisher release R2, 2024, onwards.

## HP-UX

### End of Support HP-UX

FlexNet Publisher no longer supports the HP-UX platform from FlexNet Publisher release R2, 2024, onwards.

## 11.19.6 Updates

Updates have been made in the following areas for FlexNet Publisher 11.19.6:

- [Integrated Products and Tested Versions](#)
- [macOS](#)
- [Linux OS](#)
- [AIX](#)
- [Solaris](#)
- [Oracle](#)

## Integrated Products and Tested Versions

The following table lists the integrated products and tested versions for this release:

Product	Tested Version
<b>FlexNet Operations</b>	FlexNet Operations 2022.05 (22.5.0)
<b>FlexNet Manager for Engineering Applications</b>	FlexNet Manager for Engineering Applications 2023 R2 (15.16.0)
<b>FlexNet Operations Cloud</b>	FlexNet Operations Cloud 2024.03 (24.3.35)



## macOS

### End of Support macOS 11

FlexNet Publisher no longer supports the macOS 11 platform from FlexNet Publisher release R1, 2024, onwards.

### Support for macOS 14

FlexNet Publisher supports the macOS 14 platform from FlexNet Publisher release R1, 2024, onwards.

## Linux OS

### End of Support RHEL 7

FlexNet Publisher will not support the RHEL 7 platform from FlexNet Publisher release R2, 2024, onwards.

### End of Life SUSE Linux 15 SP1

FlexNet Publisher no longer supports the SUSE Linux 15 SP1 platform from FlexNet Publisher release R1, 2024, onwards.

## AIX

### End of Life AIX 7.1

FlexNet Publisher no longer supports the AIX 7.1 platform from FlexNet Publisher release R1, 2024, onwards.

## Solaris

### End of Support Solaris 10

FlexNet Publisher no longer supports the Solaris 10 platform from FlexNet Publisher release R1, 2024, onwards.

## Oracle

### End of Support Oracle Java 11

FlexNet Publisher no longer supports the Oracle Java 11 platform from FlexNet Publisher release R1, 2024, onwards.

## 11.19.5 Updates

Updates have been made in the following areas for FlexNet Publisher 11.19.5:

- [Integrated Products and Tested Versions](#)
- [macOS](#)
- [Linux OS](#)
- [AIX](#)
- [Solaris](#)
- [Oracle](#)

### Integrated Products and Tested Versions

The following table lists the integrated products and tested versions for this release.

Product	Tested Version
<b>FlexNet Operations</b>	FlexNet Operations 2022.05 (22.5.0)
<b>FlexNet Manager for Engineering Applications</b>	FlexNet Manager for Engineering Applications 2022 R2 (15.14.0)
<b>FlexNet Operations Cloud</b>	FlexNet Operations Cloud 2023.11 (23.11.152)

### macOS

#### End of Life macOS 11

FlexNet Publisher will not support the macOS 11 platform from FlexNet Publisher release R1, 2024, onwards.

#### Support for macOS 13

FlexNet Publisher supports the macOS 13 platform from FlexNet Publisher release R3, 2023, onwards.

### Linux OS

#### End of Life SUSE Linux 12 SP4

FlexNet Publisher no longer supports the SUSE Linux 12 SP4 platform from FlexNet Publisher release R3, 2023, onwards.

## End of Life SUSE Linux 15 SP1

FlexNet Publisher will not support the SUSE Linux 15 SP1 platform from FlexNet Publisher release R1, 2024, onwards.

## Support for SUSE Linux 15 SP5

FlexNet Publisher supports the SUSE Linux 15 SP5 platform from FlexNet Publisher release R3, 2023, onwards.

## AIX

### End of Life AIX 7.1

FlexNet Publisher will not support the AIX 7.1 platform from FlexNet Publisher release R1, 2024, onwards.

## Solaris

### End of Life Solaris 10

FlexNet Publisher will not support the Solaris 10 platform from FlexNet Publisher release R1, 2024, onwards.

## Oracle

### End of Support Oracle Java 11

FlexNet Publisher will not support the Oracle Java 11 platform from FlexNet Publisher release R1, 2024, onwards.

### Support for Oracle Java 21

FlexNet Publisher supports the Oracle Java 21 platform from FlexNet Publisher release R3, 2023, onwards.

## Resolved Issues

This release of the FlexNet Publisher Licensing Toolkit resolves the following issues. (Numbers in parentheses indicate the Revenera issue reference number as well as the Salesforce reference number, if applicable.)

- [Resolved Imadmin, Imgrd, Vendor daemon, and Utility Issues](#)
- [Resolved Issues Specific to Trusted Storage-Based Licensing](#)
- [Resolved General Issues](#)

# Resolved Imadmin, Imgrd, Vendor daemon, and Utility Issues

The following issue related to Imadmin, Imgrd, vendor daemon, or utilities was addressed in this release:

- [Incorrect Expiration Alert in Imadmin for Valid License](#)

## Incorrect Expiration Alert in Imadmin for Valid License

In FlexNet Publisher 11.19.7.1 and earlier versions, the **Alert** section in the Imadmin user interface incorrectly displayed a license information as expired, even though the license was still valid and could be successfully checked out until midnight on the expiration date. This issue, which occurred on the expiration date, has now been fixed.

(FNP-33072)

# Resolved Issues Specific to Trusted Storage–Based Licensing

The following issue related to Trusted Storage–Based Licensing was resolved in this release:

- [Resolved Trusted Storage Corruption on macOS](#)

## Resolved Trusted Storage Corruption on macOS

Rebooting or restarting from sleep mode a macOS machine led to the deletion of all files in the /tmp/FLEXnet directory or deletion of the FLEXnet folder. This behavior resulted in the corruption of Trusted storage on the same machine.

This issue has been fixed by updating timestamps for all files in the /tmp/FLEXnet directory, which prevents the deletion of the trusted-storage files in the /tmp/FLEXnet directory or deletion of the FLEXnet folder.

(Case 02858302, FNP-32011)

# Resolved General Issues

The following general issue was resolved in this release:

- [Resolved Build Issue with C# Wrapper Example Included Imgract.dll](#)

## Resolved Build Issue with C# Wrapper Example Included Imgract.dll

In FlexNet Publisher 11.19.6 kit, a build failure was observed with the C# Wrapper example that included Imgract.dll. This issue has been fixed by building the C# Wrapper example with Imgract.dll using the vc16 version of the FlexNet Publisher SDK. This change updates the supplied makefile to ensure the build process completes successfully.

(Case-02908394, FNP-32654)

# Known Issues

This release includes known issues in the following categories:

- [Known General Issues](#)
- [Known Dongle Issues](#)
- [Known Imadmin Issues](#)
- [Known Issues Specific to License File-Based Licensing](#)
- [Known Issues Specific to Secured Communication](#)

## Known General Issues

### Build Failure on Solaris

When building a kit on the Solaris platform, a build failure is observed with the following error:

```
<cc -g -I../machind -I. -DFD_LIMIT_CHECK -DFLEX_INET6 -g -xO3 -xarch=generic64 -
xldscope=hidden -DOS_SOLARIS -DECMC_DISABLE_FAKE_TPM=1 -DLM_INTERNAL -DFLEXLM_KITBUILD -
DFLEX_STATIC -DSUNOS5 -DSUNOS10 -DSUN64 -DPLATFORM_X64_SUN -DNO_ACTIVATION_SUPPORT -
xarch=generic64 -B eliminate -z text -z defs -z verbose -z nocompstrtab -o qavend1 lsvendor.o
lm_new.o \
liblmgr_as.a liblmgr_s.a liblmgr_tr1.a libcrvs.a libsb.a ./activation/lib/libnoact.a -lsocket
-lnsl -lrt -ldl -lpthread
gstrip qavend1
sh: gstrip: not found
*** Error code 127
make: Fatal error: Command failed for target `qavend1'
```

This issue can be resolved by replacing "STRIP = gstrip" with "STRIP = strip" in the makefile/makefile.act.

(FNP-30781)

### Multiple Packages Consumption After Server Restart

Restarting the server following the components checked out in linger with the LM\_A\_LINGER attribute leads to multiple packages consumption.

(FNP-30842)

### License File Information on Imgrd Port

When a secure utility communicates with a license server, the Wireshark tool captures the license file information on the Imgrd port.

(FNP-31334)

### Secure Utility Failure to Return Proper Error

A secure utility fails to return the proper error code on communication with the SSL certificate of a disabled license server.

(FNP-31337)

### Detection Failure for HOSTID\_CONTAINER\_ID on Docker Container

There is a failure to detect the HOSTID\_CONTAINER\_ID on Docker containers that run using a **private** control group name space mode, which is the default Docker containers' mode on cgroup v2 control group version from Dockers 20.10. The cgroup v2 is the default control group version for Ubuntu 21.10. For a workaround, run the Docker container with the `--cgroupns host` option.

(Case 02825716, FNP-30907)

### Vendor Daemon Crash Due to LM\_A\_MULTIPLE\_CHECKOUT\_DATA Usage

Multiple vendor daemon crashes are observed when a FlexEnabled application (Imflex) with the LM\_A\_MULTIPLE\_CHECKOUT\_DATA API attribute attempts to reconnect to the licensing server.

(FNP-31403, FNP-31404, FNP-31405)

### lmstatsecure Crash Due to -localonly Usage on Server

The lmstatsecure utility crash is observed on a remote machine when it is used on a server that was started with the `-localonly` command-line argument.

(FNP-32280)

## Known Dongle Issues

### Backward Compatibility Issue Due to the New Signer

If the SafeNet dongle drivers and its DLL are upgraded to version 8.53 and 8.5 respectively, and also if the Wibu dongle drivers are upgraded to version 6.60, the DLL signature issuer name is changed from "Symantec" to "DigiCert" on Windows. The same is fixed in FlexNet Publisher's code to handle the new signer. Due to this change, backward compatibility is not possible. If you install the latest drivers, old clients will not be able to retrieve the dongle ID.

(FNP-26594, FNP-28216)

### Flexid10 Dongle Driver Issue

FLEXID10 dongles may not work correctly with the latest v6.50 driver on VMware hypervisors. This issue has been identified on both Windows and Linux platforms with a dongle connected using a USB passthrough on VMware ESXi and on VMware Workstation. The problem has been reported to Wibu. As a temporary workaround, use the previous version v6.32 driver on VMware hypervisors.

(FNP-17284, FNP-16819)

### Wibu Dongle Driver Issue

An error occurs on SUSE 11 SP4 Linux machines while installing a new Wibu dongle driver (V6.50). The problem has been reported to Wibu. As a temporary workaround, use the previous version v6.40 driver.

(FNP-20298)

### Dongles in macOS

Dongle drivers are not supported on the macOS platform for FlexNet Publisher release R1, 2023.

(FNP-24876, FNP-24877)

### SafeNet Dongle Drivers Support in Linux 32-bit Platform

In FlexNet Publisher release, R1, 2023, the SafeNet dongle drivers with version 8.43 only support the Linux 32-bit platform. The SafeNet Dongle drivers will not support the Linux 32-bit platform from FlexNet Publisher release, R3, 2023, onwards.

(FNP-28443)

## Known Imadmin Issues

### Imadmin Silent Installer Not Displaying Required Error Message

When a non-root user attempts to install Imadmin in the default location, the installer may hang.

(FNP-6942)

### Unable to Start Imadmin Services Using CLI in Windows Server 2022

The Imadmin services created on a Windows 2022 machine are unable to start when using the command prompt.

(FNP-26481)

### Imadmin Login Error Observed in Windows Server 2022

While logging in to Imadmin on Windows Server 2022, the error "Old password is incorrect" is seen.

(FNP-26482)

### Imadmin Failed to Run Without libcrypt

In RHEL9 32-bit, the libcrypt library is not offered as part of the supported distribution. Components in FlexNet Publisher, such as Imadmin, require the libcrypt library. If this is not present, Imadmin will fail to run with a No such file or directory error.

As a workaround, install the 32-bit libcrypt explicitly on RHEL9.

(Cases 02737901, 02753124, 02795350, 02800462; FNP-28345, FNP-30376)

## Vendor Daemon Failed to Appear Due to an Older Imadmin or FlexEnabled App

A vendor daemon failed to appear when an earlier version of Imadmin was used for importing the installation files or an earlier version of a FlexEnabled app was used. As a workaround, specify a soft link to the native loader. The following symlinks have been verified on RHEL9:

### 32-bit Linux

```
sudo bash -c "if [ ! -e /lib/ld-lsb.so.3 ]; then ln -s ld-linux.so.2 /lib/ldlsb.so.3; fi"
```

### 64-bit Linux

```
sudo bash -c "if [ ! -e /lib64/ld-lsb-x86-64.so.3 ]; then ln -s ld-linux-x86-64.so.2 /lib64/ld-lsb-x86-64.so.3; fi"
```

From 11.19.5 onwards, the `install_fnp.sh` script will not issue a warning if LSB is not detected on the host. Additionally, this script does not support a new `-nolsb` parameter, which sets up the above symlinks.

(Cases 02737901, 02753124, 02795350, 02800462; FNP-28345, FNP-30554)

## Imadmin Installer Failure on Solaris

The Imadmin installer fails to run on the Solaris platform when using the Java 8. However, the Imadmin installer on the Solaris Intel platform runs with the Java 11.0.19 (LTS), released on April 18, 2023.



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**Note** ▪ Consider the following information:

- Java 8 is no longer supported on the Solaris platform from FlexNet Publisher release R3, 2023, onwards.
- Java 11 is no longer supported on the Solaris platform from FlexNet Publisher release R1, 2024, onwards.

(FNP-33669)

# Known Issues Specific to License File-Based Licensing

## Imdiag Displaying Incorrect Output When Multiple Vendors are Served by a Single License Server Manager

If multiple vendor daemons are served by a single license server manager (such as Imgrd), Imdiag shows an incorrect error message “No such feature exists” for features that are served by one of the valid daemons.

(Case 01202287, FNP-19617)



## "MAX\_CONNECTIONS" Option File Keyword

If a software publisher upgrades only lmgrd and vendor daemon to version 11.16.3 or above, but not the client, the error code that would be received by an older version (version < 11.16.3) client when MAX\_CONNECTIONS limit is exceeded is as follows:

LM\_BADCOMMAND" Error code: "-140" - "A bad command was found in a message.

(FNP-20537)

## Known Issues Specific to Secured Communication

The following issues are observed when secure communication has been enabled in between a FlexEnabled client and a vendor daemon. These issues will be resolved in the future releases of FlexNet Publisher.

- On Windows, the triad configuration with secure communication enabled goes down if any one of the servers in triad is shutdown/restarted.  
(FNP-26640)
- When multiple vendors run with secure communication enabled under one lmgrd, the secure checkout is possible only for the last secured vendor daemon.  
(FNP-26989)

## System Requirements

The System Requirements include the following:

- [Tested Platforms](#)
- [System Requirements for lmadmin](#)

## Tested Platforms

The following sections describe the platforms tested with the FlexNet Publisher 2025 R1 (11.19.8) Licensing Toolkits.

- [C/C++ Toolkits](#)
- [Java Toolkits](#)
- [Detailed Platform Information](#)
- [Toolkits That Support Prepped Trusted Configuration](#)
- [Virtualization](#)
- [Tested Cloud Environments](#)

A list of supported platforms can be found here:

<https://docs.revenera.com/eol/>

## C/C++ Toolkits

The following platforms are tested. See the [Detailed Platform Information](#) section for more information about each platform.

**Table 1** ▪ Tested Platforms—C/C++ Toolkits

Platform Type	Hardware Type	Operating System
Linux 32-bit	x64	RHEL 8 and 9
Linux 64-bit	x64	RHEL 8 and 9  SLES 12 SP5, SLES 15 SP3, SLES 15 SP4, SLES 15 SP5, and SLES 15 SP6, Ubuntu 22.04*, and Ubuntu 24.04.
Linux 64-bit	ARMv8-A (AArch64)	RHEL 8  SLES 15*
macOS/OS X 64-bit	x64	macOS 13.X*  macOS 14.X  macOS 15.X
macOS ARM 64-bit	ARM-64	macOS 13.X*  macOS 14.X  macOS 15.X
Microsoft Windows 32-bit	x64	Windows 10  Windows 11  Windows Server 2019  Windows Server 2022  Windows Server 2025
Microsoft Windows 64-bit	x64	Windows 10  Windows 11  Windows Server 2019  Windows Server 2022  Windows Server 2025  It is a best practice to run license servers on a server-based OS.
Solaris 32-bit	SPARC 32-bit  x86	Solaris 11

**Table 1** ▪ Tested Platforms—C/C++ Toolkits

Platform Type	Hardware Type	Operating System
Solaris 64-bit	SPARC 64-bit	Solaris 11
	x86-x64	



**Note** ▪ The asterisk (\*) symbol indicates that the version of operating system is supported but has not been tested in the current release.

## Java Toolkits

The following platforms have been tested. See [Java Standard Edition](#) in [Detailed Platform Information](#) for more information about this platform.

**Table 2** ▪ Tested Platforms—Java Toolkits

Platform Type	Hardware Type	Version
Java Development Kit	• Windows x86	OpenJDK 21
	• Windows x64	OpenJDK 23
	• Linux x86	
	• Linux x64	
	• macOS x64	



**Note** ▪ The OpenJDK 8 version was the final release available for the Solaris platform; however, FlexNet Publisher no longer supports the OpenJDK 8 version.

## Detailed Platform Information

The following sections list the operating systems and their associated hardware platforms tested with FlexNet Publisher 2025 R1 (11.19.8). Each platform entry contains the following information:

- **Platform name**—The name that identifies this platform when used with the PLATFORMS keyword in a license file.
- **Package identifier**—The name of the toolkit package on Revenera’s download site.
- **Tested compiler**—The compiler and version with which this package was tested. Choose a compiler for your development and build environment that is compatible with the one listed.
- **Notes**—Additional platform-specific notes that are useful for developing your FlexEnabled product.

- **Security functionality**—Denotes the level of security functionality your toolkit supports. This information is useful when you implement trusted storage-based licensing in your product. See *Programming Reference for Trusted Storage-Based Licensing* for details.

Click a link to access platform details:

- [Microsoft Windows 32-bit](#)
- [Microsoft Windows 64-bit](#)
- [Linux 32-bit](#)
- [Linux 64-bit](#)
- [ARMv8-A \(AArch64\)](#)
- [macOS/OS X 64-bit](#)
- [macOS ARM 64-bit](#)
- [Solaris 32-bit](#)
- [Solaris 64-bit](#)
- [AIX 32-bit](#)
- [AIX 64-bit](#)
- [Java Standard Edition](#)

## Microsoft Windows 32-bit

The following table lists information about the Microsoft Windows 32-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	i86_n
<b>Package Identifier</b>	i86_n3
<b>Tested Compiler</b>	<ul style="list-style-type: none"> <li>● Visual Studio 2022 (17.13.1)</li> <li>● Visual Studio 2019 (16.11.45)</li> <li>● Visual Studio 2017 (15.9.71)*</li> <li>● Visual Studio 2015 Update 3</li> <li>● Visual Studio 2013 Update 5*</li> </ul>

Item	Description
<b>Notes</b>	<ul style="list-style-type: none"> <li>Multiple Ethernet hostids are supported.</li> <li>Short-code transactions are supported.</li> <li>Prepped Trusted Configuration is supported.</li> <li>Tested virtual machine platforms include: <ul style="list-style-type: none"> <li>VMware Workstation 16.1.2</li> <li>VMware ESXi 7</li> <li>Microsoft Windows Server 2019 Hyper-V*</li> <li>Microsoft Windows Server 2022 Hyper-V</li> <li>Microsoft Windows 10 Hyper-V*</li> <li>Citrix XenServer 8.2</li> <li>Oracle Virtual Box 7.0.13</li> <li>Parallels Desktop 20 for macOS 13.2</li> <li>everRun 7.9.1*</li> <li>Nutanix AHV (Version 2020.09.16 Community Edition)*</li> <li>QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> <li>Hypervisor: qemu-kvm-ev-3.2.0</li> <li>Hypervisor Services: libvirt-daemon-kvm-8.0.0</li> <li>Virtual Machine Manager: vmm v3.2.0</li> </ul> </li> </ul> </li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications. The toolkit is labeled as <i>standard</i> .



**Note** - The asterisk (\*) symbol indicates that the version of visual studio or hypervisor is supported but has not been tested in the current release.

## Microsoft Windows 64-bit

The following table lists information about the Microsoft Windows 64-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	x64_n
<b>Package Identifier</b>	x64_n6

Item	Description
<b>Tested Compiler</b>	<ul style="list-style-type: none"> <li>Visual Studio 2022 (17.13.1)</li> <li>Visual Studio 2019 (16.11.45)</li> <li>Visual Studio 2017 (15.9.71)*</li> <li>Visual Studio 2015 Update 3</li> <li>Visual Studio 2013 Update 5*</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>lmadmin is supported using its 64-bit binary. While the 32-bit lmadmin binary (contained in the x86_n3 toolkit) continues to be supported on 64-bit systems, Revenera recommends using the 64-bit binary on 64-bit systems.</li> <li>Multiple Ethernet hostids are supported.</li> <li>Short-code transactions are supported.</li> <li>Prepped Trusted Configuration is supported.</li> <li>The lmtools utility cannot interact with the license server manager (lmgrd) when lmgrd is run as a service.</li> <li>Tested virtual machine platforms include: <ul style="list-style-type: none"> <li>VMware Workstation 16.1.2</li> <li>VMware ESXi 7</li> <li>Microsoft Windows Server 2019 Hyper-V*</li> <li>Microsoft Windows Server 2022 Hyper-V</li> <li>Microsoft Windows 10 Hyper-V*</li> <li>Citrix XenServer 8.2</li> <li>Oracle Virtual Box 7.0.13</li> <li>Parallels Desktop 20 for macOS 13.2</li> <li>everRun 7.9.1*</li> <li>Nutanix AHV (Version 2020.09.16 Community Edition)*</li> <li>QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> <li>Hypervisor: qemu-kvm-ev-3.2.0</li> <li>Hypervisor Services: libvirt-daemon-kvm-8.0.0</li> <li>Virtual Machine Manager: vmm v3.2.0</li> </ul> </li> </ul> </li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications. The toolkit is labeled as <i>standard</i> .



**Note** - The asterisk (\*) symbol indicates that the version of visual studio or hypervisor is supported but has not been tested in the current release.

## Linux 32-bit

The following table lists information about the Linux 32-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
Platform Name	i86_linux
Package Identifier	i86_linux
Tested Compiler	For x86: <ul style="list-style-type: none"><li>• gcc 11.2.1 (RHEL 9)</li><li>• gcc 8.5.0 (RHEL 8.8)</li></ul>

Item	Description
<b>Notes</b>	<ul style="list-style-type: none"> <li>Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement.</li> <li>FlexNet Publisher qualifies the default GCC version that comes with the OS.</li> <li>ladmin is supported using its 32-bit binary.</li> <li>Multiple Ethernet hostids are supported.</li> <li>Short-code transactions are supported.</li> <li>Prepped Trusted Configuration is supported.</li> <li>Tested virtual machine platforms include: <ul style="list-style-type: none"> <li>VMware ESXi 7</li> <li>VMware Workstation 16.1.2</li> <li>Microsoft Windows Server 2019 Hyper-V*</li> <li>Microsoft Windows Server 2022 Hyper-V</li> <li>Microsoft Windows 10 Hyper-V*</li> <li>Citrix XenServer 8.2</li> <li>Oracle Virtual Box 7.0.13</li> <li>Parallels Desktop 20 for macOS 13.2</li> <li>everRun 7.9.1*</li> <li>Nutanix AHV (Version 2020.09.16 Community Edition)*</li> <li>QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> <li>Hypervisor: qemu-kvm-ev-3.2.0</li> <li>Hypervisor Services: libvirt-daemon-kvm-8.0.0</li> <li>Virtual Machine Manager: vmm v3.2.0</li> </ul> </li> </ul> </li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications. The toolkit is labeled as <i>standard</i> .



**Note** ▪ The asterisk (\*) symbol indicates that the version of hypervisor is supported but has not been tested in the current release.



## Linux 64-bit

The following table lists information about the Linux 64-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	x64_linux
<b>Package Identifier</b>	x64_linux
<b>Tested Compiler</b>	For x64: <ul style="list-style-type: none"><li>● gcc 11.2.1 (RHEL 9)</li><li>● gcc 8.5.0 (RHEL 8.9*)</li><li>● gcc 8.5.0 (RHEL 8.8)</li><li>● gcc 8.5.0 (RHEL 8.6)</li><li>● gcc 8.5.0 (RHEL 8.5)</li><li>● gcc 7.5.0 (SLES 15 SP6)</li><li>● gcc 7.5.0 (SLES 15 SP5)</li><li>● gcc 7.5.0 (SLES 15 SP4)</li><li>● gcc 13.3.0 (Ubuntu 24.04)</li><li>● gcc 11.4.0 (Ubuntu 22.04)</li></ul>

Item	Description
<b>Notes</b>	<ul style="list-style-type: none"> <li>Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement.</li> <li>ladmin is supported using its 64-bit binary.</li> <li>Multiple Ethernet hostids are supported.</li> <li>Short-code transactions are supported.</li> <li>Prepped Trusted Configuration is supported (x64_linux only).</li> <li>No dongle support on SLES 15</li> <li>Tested virtual machine platforms include: <ul style="list-style-type: none"> <li>VMware ESXi 7</li> <li>VMware Workstation 16.1.2</li> <li>Microsoft Windows Server 2019 Hyper-V*</li> <li>Microsoft Windows Server 2022 Hyper-V</li> <li>Microsoft Windows 10 Hyper-V*</li> <li>Citrix XenServer 8.2</li> <li>Oracle Virtual Box 7.0.13</li> <li>Parallels Desktop 20 for macOS 13.2</li> <li>everRun 7.9.1*</li> <li>Nutanix AHV (Version 2020.09.16 Community Edition)*</li> <li>QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> <li>Hypervisor: qemu-kvm-ev-3.2.0</li> <li>Hypervisor Services: libvirt-daemon-kvm-8.0.0</li> <li>Virtual Machine Manager: vmm v3.2.0</li> </ul> </li> </ul> </li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications. The toolkit is labeled as <i>standard</i> .



**Note** ▪ The asterisk (\*) symbol indicates the version of operating system or hypervisor is supported but has not been tested in the current release.

## ARMv8-A (AArch64)

The following table lists information about the ARMv8-A (AArch64) systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
Platform Name	arm64_linux
Package Identifier	arm64_linux
Tested Compiler	<ul style="list-style-type: none"><li>● gcc 8.5.0 (RHEL 8.6)</li><li>● gcc 7.3.1 (SLES 15*)</li></ul>
Notes	<ul style="list-style-type: none"><li>● Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement.</li><li>● lmadm is not supported in this toolkit</li><li>● No VM detection or VMID hostid support</li><li>● No dongle support</li><li>● No trusted storage support</li></ul>
Toolkit Functionality	Licensing based on license files.
Security Functionality	No support for tamper-resistant applications. The toolkit is labeled as <i>notr</i> .



**Note** ▪ The asterisk (\*) symbol indicates that the version of operating system is supported but has not been tested in the current release.

## macOS/OS X 64-bit

The following table lists information about the macOS/OS 64-bit system tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
Platform Name	<ul style="list-style-type: none"><li>● x64_mac</li></ul>
Package Identifier	<ul style="list-style-type: none"><li>● universal2_mac11</li></ul>

Item	Description
<b>Tested Compiler</b>	<ul style="list-style-type: none"> <li>• Xcode 14.1</li> <li>• Xcode 15.2</li> <li>• Xcode 16</li> <li>• Apple clang version 16.0.0 (clang-1600.0.26.3)</li> <li>• Apple clang version 15.0.0 (clang-1500.1.0.2.5)</li> <li>• Apple clang version 14.0.3 (clang-1403.0.22.14.1)</li> <li>• Apple clang version 14.0.0 (clang-1400.0.29.202)</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>• Multiple Ethernet hostids are not supported.</li> <li>• Short-code transactions are supported.</li> <li>• Prepped Trusted Configuration is supported.</li> <li>• For building requirements, see <a href="#">Requirements for Building the macOS/OS X Licensing Toolkit</a>.</li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications. The toolkit is labeled as <i>standard</i> .

### Requirements for Building the macOS/OS X Licensing Toolkit

When building the FlexNet Publisher Licensing Toolkit on macOS/OS X platforms, use an appropriate Apple development environment: The supplied makefiles build a universal Licensing Toolkit that can be used to produce FlexEnabled applications of the following types (all contained within a single FAT binary):

- For macOS 13.0.1, use Xcode 14.1
- For macOS 14.6, use Xcode 15.2
- For macOS 15.0, use Xcode 16

### Required macOS/OS X SDKs

An SDK appropriate to the macOS/OS X version must be available on the machine where you are building the Licensing Toolkit:

- For macOS 13.0, use `xcode-select --print-path` to obtain the correct path and choose an appropriate SDK path.
- For macOS 14.6, use `xcode-select --print-path` to obtain the correct path and choose an appropriate SDK path.
- For macOS 15.0, use `xcode-select --print-path` to obtain the correct path and choose an appropriate SDK path.

## macOS ARM 64-bit

The following table lists information about the macOS ARM64-bit system tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	<ul style="list-style-type: none"><li>universal2_mac</li></ul>
<b>Package Identifier</b>	<ul style="list-style-type: none"><li>universal2_mac11</li></ul>
<b>Tested Compiler</b>	<ul style="list-style-type: none"><li>Xcode 14</li><li>Apple clang version 14.0.3 (clang-1403.0.22.14.1)</li></ul>
<b>Notes</b>	<ul style="list-style-type: none"><li>Prepped Trusted Configuration is supported.</li><li>For building requirements, see <a href="#">Requirements for Building the macOS/OS X Licensing Toolkit</a>.</li></ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications.

### Requirements for Building the macOS ARM64 Licensing Toolkit

When building the FlexNet Publisher Licensing Toolkit on macOS ARM64 platform, use an appropriate Apple development environment:

- For macOS 13.2, use Xcode 14.3
- For macOS 14.2.1, use Xcode 14.3
- For macOS 15.0, use Xcode 14.3

### Required macOS ARM64 SDKs

An SDK appropriate to the macOS ARM64 version must be available on the machine where you are building the Licensing Toolkit:

- For macOS 13.2, use `xcode-select --print-path` to obtain the correct path and choose an appropriate SDK path.
- For macOS 14.2.1, use `xcode-select --print-path` to obtain the correct path and choose an appropriate SDK path.
- For macOS 15.0, use `xcode-select --print-path` to obtain the correct path and choose an appropriate SDK path.

## Solaris 32-bit

The following table lists information about the Solaris 32-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	<ul style="list-style-type: none"><li>• x86_sol (on x86)</li><li>• sun4_u (on SPARC 32-bit)</li></ul>
<b>Package Identifier</b>	<ul style="list-style-type: none"><li>• x86_sol10 (on x86)</li><li>• sun4_u10 (on SPARC 32-bit)</li></ul>
<b>Tested Compiler</b>	For x86: <ul style="list-style-type: none"><li>• cc (Sun C) 5.11</li><li>• cc (Sun C) 5.15</li></ul> For SPARC 32-bit: <ul style="list-style-type: none"><li>• cc (Sun C) 5.14</li><li>• cc (Sun C) 5.15</li></ul>
<b>Notes</b>	<ul style="list-style-type: none"><li>• lmadm is supported in this toolkit.</li><li>• Synchronous I/O multiplexing, via select, is supported for up to 65,535 file descriptors.</li><li>• The number of system semaphore arrays can become exhausted.</li><li>• Shared objects might not run when compiled with gcc on SPARC 32-bit.</li><li>• Multiple Ethernet hostids are not supported.</li><li>• Prepped Trusted Configuration is supported.</li></ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications. The toolkit is labeled as <i>standard</i> .

## Solaris 64-bit

The following table lists information about the Solaris 64-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	<ul style="list-style-type: none"><li>• x64_sun (on x64)</li><li>• sun64_u (on SPARC 64-bit)</li></ul>
<b>Package Identifier</b>	<ul style="list-style-type: none"><li>• x64_sun10 (on x64)</li><li>• sun64_u10 (on SPARC 64-bit)</li></ul>
<b>Tested Compiler</b>	For x64: <ul style="list-style-type: none"><li>• cc (Sun C) 5.11</li><li>• cc (Sun C) 5.15</li></ul> For SPARC 64-bit: <ul style="list-style-type: none"><li>• cc (Sun C) 5.14</li><li>• cc (Sun C) 5.15</li></ul>
<b>Notes</b>	<ul style="list-style-type: none"><li>• lmadm is supported using its 64-bit binary. While the 32-bit lmadm binary (contained in the x86_sun and sun64_u toolkits) continues to be supported on 64-bit systems, Revenera recommends using the 64-bit binary on 64-bit systems.</li><li>• Shared objects might not run when compiled with gcc on SPARC 64-bit.</li><li>• Multiple Ethernet hostids are not supported.</li><li>• Prepped Trusted Configuration is supported.</li></ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	Support for tamper-resistant applications. The toolkit is labeled as <i>standard</i> .

## AIX 32-bit

The following table lists information about the AIX 32-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	ppc_u
<b>Package Identifier</b>	ppc_u5 (on PowerPC™)

Item	Description
<b>Tested Compiler</b>	PowerPC cc (IBM XLC): 13.1.3 (AIX 7.2*)
<b>Notes</b>	<ul style="list-style-type: none"> <li>● lmadm is supported in this toolkit.</li> <li>● The AIX FlexNet Publisher client libraries are PIC by default; therefore, only one version of these libraries is provided in the toolkit.</li> <li>● Java SDK is not supported.</li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files.
<b>Security Functionality</b>	No support for tamper-resistant applications. The toolkit is labeled as <i>notr</i> .



**Note** - The asterisk (\*) symbol indicates that the version of operating system is supported but has not been tested in the current release.

## AIX 64-bit

The following table lists information about the AIX 64-bit systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	rs64_u
<b>Package Identifier</b>	rs64_u5 (on PowerPC™)
<b>Tested Compiler</b>	PowerPC cc (IBM XLC): 13.1.3 (AIX 7.2*)
<b>Notes</b>	<ul style="list-style-type: none"> <li>● lmadm is supported using its 64-bit binary. While the 32-bit lmadm binary (contained in the ppc_u toolkit) continues to be supported on 64-bit systems, Revenera recommends using the 64-bit binary on 64-bit systems.</li> <li>● You must use ar -X64 and strip -X64 on this platform.</li> <li>● The AIX FlexNet Publisher client libraries are PIC by default; therefore only one version of these libraries is provided in the toolkit.</li> <li>● Java SDK is not supported.</li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files.



Item	Description
<b>Security Functionality</b>	No support for tamper-resistant applications. The toolkit is labeled as <i>notr</i> .



**Note** ▪ The asterisk (\*) symbol indicates that the version of operating system is supported but has not been tested in the current release.

## Java Standard Edition

The following table lists information about the Java Standard Edition systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
<b>Platform Name</b>	java
<b>Package Identifier</b>	Not applicable
<b>Tested Compiler</b>	<ul style="list-style-type: none"> <li>● OpenJDK 21</li> <li>● OpenJDK 23</li> </ul>
<b>Notes</b>	<ul style="list-style-type: none"> <li>● Implements the FlexNet Licensing for Java client library only.</li> <li>● Requires a C development environment.</li> <li>● Requires tamper-resistant licenses (TRL) to be enabled.</li> </ul>
<b>Toolkit Functionality</b>	Licensing based on license files or trusted storage.
<b>Security Functionality</b>	No support for tamper-resistant applications. The toolkit is labeled as <i>notr</i> .

## Toolkits That Support Prepped Trusted Configuration

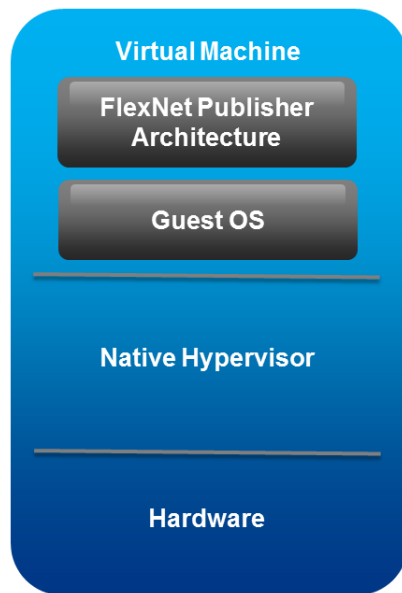
Toolkit platforms that support prepped Trusted Configuration (and therefore server-side local trial ASRs) include the following:

- i86\_linux (32-bit Linux)
- x64\_linux (64-bit Linux)
- i86\_n3 (32-bit Windows)
- x64\_n6 (64-bit Windows)
- sun4\_u10 (32-bit Solaris SPARC)
- sun64\_u10 (64-bit Solaris SPARC)

- x86\_sol10 (32-bit Solaris Intel)
- x64\_sun10 (64-bit Solaris Intel)
- x64\_mac10 (Universal macOS)
- universal2\_mac11 (Universal macOS)

## Virtualization

The following picture illustrates how the FlexNet licensing server or a FlexEnabled application operates within a Virtualization stack. The table below the picture lists the Virtualization stacks that have been tested with FlexNet Publisher.



Use the following table to determine the tested Virtualization stacks.

**Table 3** ▪ Tested Virtualization Stacks

FlexNet Publisher Architecture	Guest OS	Hypervisor
i86_n, x64_n	Windows 10	VMware ESXi 7* Citrix XenServer 8.2 VMware Workstation 16.1.2* Oracle Virtual Box 7.0.13 QEMU-KVM PARALLELS* everRun 7.9.1* Microsoft Hyper-V from Windows 10 Enterprise Microsoft Hyper-V from Windows Server 2022*
	Windows 11	VMware ESXi 7 Citrix XenServer 8.2* VMware Workstation 16.1.2 Oracle Virtual Box 7.0.13* QEMU-KVM* PARALLELS* everRun 7.9.1* Microsoft Hyper-V from Windows 10 Enterprise* Microsoft Hyper-V from Windows Server 2022

**Table 3** ▪ Tested Virtualization Stacks

FlexNet Publisher Architecture	Guest OS	Hypervisor
i86_n, x64_n	Windows Server 2019	VMware ESXi 7*
		Citrix XenServer 8.2
		VMware Workstation 16.1.2*
		Oracle Virtual Box 7.0.13*
		QEMU-KVM*
		PARALLELS*
		everRun 7.9.1*
		Microsoft Hyper-V from Windows 10 Enterprise*
		Microsoft Hyper-V from Windows Server 2022*
	Windows Server 2022	VMware ESXi 7*
		Citrix XenServer 8.2
		VMware Workstation 16.1.2
		Oracle Virtual Box 7.0.13
		QEMU-KVM
		everRun 7.9.1*
		Microsoft Hyper-V from Windows 10 Enterprise*
		Microsoft Hyper-V from Windows Server 2022*
	Windows Server 2025	VMware ESXi 7*
		Citrix XenServer 8.2*
		VMware Workstation 16.1.2*
		Oracle Virtual Box 7.0.13
		QEMU-KVM*
		PARALLELS*
		everRun 7.9.1*
		Microsoft Hyper-V from Windows 10 Enterprise*
		Microsoft Hyper-V from Windows Server 2022

**Table 3** ▪ Tested Virtualization Stacks

FlexNet Publisher Architecture	Guest OS	Hypervisor
i86_linux	RHEL 8 and 9	VMware ESXi 7*
		VMware Workstation 16.1.2
		Citrix XenServer 8.2*
		PARALLELS*
		Oracle Virtual Box 7.0.13*
		QEMU-KVM
		everRun 7.9.1*
		Microsoft Hyper-V from Windows 10 Enterprise
x64_linux	RHEL 8 and 9  SLES 12 SP5, SLES 15 SP4, SLES 15 SP5, and SLES 15 SP6	VMware ESXi 7
		VMware Workstation 16.1.2
		Citrix XenServer 8.2
		PARALLELS*
		Oracle Virtual Box 7.0.13
		QEMU-KVM*
		everRun 7.9.1*
		Microsoft Hyper-V from Windows Server 2010*
		Microsoft Hyper-V from Windows Server 2022
x64_n6	Windows10	Nutanix AHV (Version 2020.09.16 Community Edition)*
x64_linux, i86_linux	RHEL 8.7 and SLES 15 SP4	Nutanix AHV (Version 2020.09.16 Community Edition)*



**Note** ▪ Consider the following information concerning data in the table above:

- Supported hostids in guest operating systems are *ETHER* (server and client) and, for all hypervisors other than Hyper-V, *VM\_UUID* (server only). See the white paper, “Understanding Virtualization Features in FlexNet Publisher”, for more information.
- It is a best practice to run license servers on a server-based OS.
- For Windows and Linux certificate applications, the FlexNet Licensing Service needs to be installed for *VM\_UUID* hostid to be extracted.
- The asterisk (\*) symbol indicates that the version of hypervisor is supported but has not been tested in the current release.

## Tested Cloud Environments

Use the following table to determine guest operating systems and hostids that have been tested with FlexNet Publisher in the specified cloud environment.

**Table 4** ▪ Tested Cloud Environments

FlexNet Publisher Architecture	Tested OS	Cloud Platform	Host ID
i86_n, x64_n	• Windows Server 2022*	Google Cloud	License servers:
	• Windows 11	Microsoft Azure	VM_UUID FlexEnabled clients: ETHER
i86_n, x64_n	• Windows Server 2022	Amazon EC2	License servers: VM UUID (previously AMZN_IID) AMZN_EIP FlexEnabled clients: AMZN_IID ETHER
i86_linux, x64_linux	• RHEL 8*	Google Cloud	License servers: VM_UUID FlexEnabled clients: AMZN_IID ETHER
i86_linux, x64_linux	• SUSE 15 SP5	Microsoft Azure	License servers: VM_UUID FlexEnabled clients: AMZN_IID ETHER
i86_linux, x64_linux	• RHEL 8	Amazon EC2	License servers: AMZN_EIP or VM_UUID FlexEnabled clients: AMZN_IID ETHER



**Note** ▪ Consider the following information:

- Google Cloud, Amazon EC2 and Microsoft Azure can all use VM\_UUID. VM\_UUID is equivalent to AMZN\_IID on EC2, Google Instance ID on Google and SMBIOS UUID on Azure
- AMZN\_IID is superseded by VM\_UUID for server-line hostid, but unlike VM\_UUID is supported for feature-line hostid.
- For Windows and Linux certificate applications, the FlexNet Licensing Service needs to be installed for cloud hostids (VM\_UUID, AMZN\_EIP, AMZN\_IID) to be extracted.
- The asterisk (\*) symbol indicates that the version of operating system is supported but has not been tested in the current release.

## System Requirements for Imadmin

The following sections describe tested platforms and requirements for Imadmin:

- [Tested Platforms](#)
- [Additional System Requirements](#)
- [Tested Browsers](#)



**Note** ▪ The Imadmin installers are no longer packaged within FlexNet Publisher kit archives, and must be downloaded separately.

## Tested Platforms

Imadmin has been tested on the following platforms.

**Table 5** ▪ Tested Imadmin Platforms

Platform Architecture	Processor Type	Operating System
Linux 32-bit	x64	RHEL 8 and 9
Linux 64-bit	x64	RHEL 8 and 9 SLES 15 SP3, SLES 15 SP4, and SLES 15 SP6 Ubuntu 24.04
macOS/OS X 64-bit	x64	macOS 13.2
macOS ARM 64-bit	ARM-64	macOS 15.0

**Table 5** ▪ Tested lmadm Platforms

Platform Architecture	Processor Type	Operating System
Microsoft Windows 64-bit	x64	Windows 10
		Windows 11
		Windows Server 2019
		Windows Server 2022
		Windows Server 2025
		It is a best practice to run license servers on a server-based OS.
Solaris 32-bit	SPARC 32-bit	Solaris 11
	x86	
Solaris 64-bit	SPARC 64-bit	Solaris 11
	x86-x64	



**Note** ▪ The FlexNet Publisher Licensing Toolkits for 64-bit platforms supply 64-bit lmadm binaries. Revenera recommends their use on 64-bit platforms. Separate 32-bit lmadm installers and binary archives are also available and can be used on 64-bit platforms if necessary.

## Additional System Requirements

lmadm has these additional requirements:

- To use lmadm on Windows platforms, the relevant Microsoft Visual C++ 2015-2022 Redistributable Package 14.31.31103 must be installed.
- The lmadm installer requires that JRE 17 or later (for macOS/OS X: JRE 11 or later) is installed. If the JRE is not already present on the machine, it must be installed separately, because it is not bundled with the lmadm installer.
- The OpenJDK 21.0.5 and OpenJDK 23.0.1 are tested Java Standard Edition systems for installing the lmadm.

## Tested Browsers

lmadm is tested on the following Web browsers:

- **Red Hat Linux**—Mozilla Firefox 131.x, Google Chrome 131.x
- **Windows**—Microsoft Edge
- **macOS/OS X**—Apple Safari





**Note** - The *Lmadmin* is supported on the macOS/OS X platform but has not been tested on the corresponding Apple Safari browser in the current release.

## Deprecated Features and Commands

The following table lists deprecated features and commands.

**Table 6** - Deprecated Features and Commands

Deprecated Features and Commands	Comments
Console mode on Lmadmin installation on macOS/OS X	On macOS/OS X, the Lmadmin installer no longer supports Console mode.
Non-multithreaded libraries	<p>The following UNIX client libraries used with applications that do not use native multithreaded libraries have been deprecated:</p> <ul style="list-style-type: none"><li>● liblmgr_nomt_pic.a</li><li>● liblmgr_nomt_pic_tr1.a</li><li>● liblmgr_nomt.a</li><li>● liblmgr_nomt_tr1.a</li></ul>
License Generator toolkit	<p>License Generator toolkit is end-of-life. Instead, the responsegen shared object API has been exposed; see the example</p> <p>.\examples\activation\responsegen\ResponseGenA pi.c.</p>
AMZN_IID, HPV_UUID, VMW_UUID	Replaced by VM_UUID
Imbind & LMB_* hostids	<p>Imbind is no longer packaged with FlexNet Publisher archives.</p> <p>Imbind sections have been removed from documentation</p>
VMW_* and HPV_* hostids	<p>It is better to have a hostid that is effective in both physical and virtual systems. As an example, we would recommend ETHER instead of VMW_ETHER (on VMware guests) or HPV_ETHER (on Hyper-V guests)</p>
Non trial-id trial ASRs	<p>ASRs which do not use a trial-id are subject to an issue where deleting trusted storage means no further (non trial-id) ASRs can be loaded. Trial-id ASRs were invented to solve this issue.</p>

**Table 6** ▪ Deprecated Features and Commands

Deprecated Features and Commands	Comments
License keys and default strength signatures	License keys have been documented as obsolete for several years. Signatures of type LM_STRENGTH_LICENSE_KEY and LM_STRENGTH_LICENSE_DEFAULT are easily cracked. Revenera strongly recommends that new license files use TRL-strength signatures and that updated clients link with the 'trl-only' (lmgr_trl.lib) library.
Decimal licenses and lc_convert API	Decimal licenses are deprecated. Consequently sections on decimal licenses and the <b>lc_convert</b> API have been removed from documentation.
Trusted Storage on AIX	Trusted storage is no longer supported on AIX.
Three-Server Redundancy	Three-server redundancy is supported with license file-based licensing only. It is not supported with trusted storage-based licensing.

# Legal Information

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