

FlexNet Publisher 2025 R2 (11.19.9) Release Notes

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Revision 02

Introduction	3
Enhancements	3
Security Updates	7
Dongle Updates	8
Platform Updates	8
11.19.9 Updates	8
Integrated Products and Tested Versions	9
macOS.....	9
Linux	9
Oracle.....	9
Hypervisor.....	10
11.19.8 Updates	10
Integrated Products and Tested Versions	10
macOS.....	10
Linux OS.....	11
Windows OS.....	11
11.19.7 Updates	11
Integrated Products and Tested Versions	11
macOS.....	12
Linux OS.....	12
HP-UX.....	12
11.19.6 Updates	13
Integrated Products and Tested Versions	13
macOS.....	13
Linux OS.....	13
AIX.....	14
Solaris.....	14
Oracle.....	14
Toolkit Updates	14
Resolved Issues	14
Resolved Imadmin, Imgrd, Vendor daemon, and Utility Issues.....	15
Resolved General Issues.....	16
Known Issues	17

Known General Issues	18
Known Dongle Issues	20
Known Imadmin Issues.....	21
Known Issues Specific to License File-Based Licensing	22
Known Issues Specific to Secured Communication	22
System Requirements.....	23
Tested Platforms	23
C/C++ Toolkits	23
Java Toolkits.....	25
Detailed Platform Information.....	25
Toolkits That Support Prepped Trusted Configuration.....	39
Virtualization.....	40
Tested Cloud Environments.....	44
System Requirements for Imadmin	45
Tested Platforms	45
Additional System Requirements	46
Tested Browsers.....	47
Deprecated Features and Commands	47
Legal Information	49

Introduction

This Release Notes document summarizes the enhancements and updates delivered with FlexNet Publisher 2025 R2 (11.19.9) in October 2025. The document includes the following information:

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

Enhancements

This release includes the following enhancements:

- [New Flag for `lc_checkout` to Suppress Denials Logging](#)
- [Support to Retrieve Transferred Features in Transferrable Counted Model](#)
- [Introduced Server Lines Enforcement](#)
- [Introduced New Hostid Type: BuiltIn-Composite Hostid](#)
- [Notification Framework for Server Piracy Detection](#)
- [Enabled License Transfer with Common Vendor Daemon in Transferrable Counted Model](#)
- [New Variables for `lmnewgen` and `lmrand1` Tools in `makefile`](#)
- [Enhanced Debug Log Output with Peak RPS \(Request Per Second\) Logging](#)
- [Support to Notify Vendor Daemon When a Queued License is Dequeued and Checked Out](#)
- [Support for macOS 26](#)

[New Flag for `lc_checkout` to Suppress Denials Logging](#)

FlexNet Publisher 11.19.9 introduces a new flag for the `lc_checkout` function named `LM_CO_AVAIL_NOWAIT_NOERROR`. This new flag suppresses the logging of all license checkout denials from a license server pool if the same license checkout requests are successfully fulfilled by a subsequent license server pool.

Using the `LM_CO_AVAIL_NOWAIT_NOERROR` flag in the `lc_checkout` function call helps to prevent the unnecessary or misleading denial entries in the log file. The `LM_CO_AVAIL_NOWAIT_NOERROR` flag is built as an extension of the functionality provided by the `LM_CO_AVAIL_NOWAIT` flag.

For more information, see “Checkout Option Flag” in *FlexNet Publisher C/C++ Function Reference*.

Support to Retrieve Transferred Features in Transferrable Counted Model

FlexNet Publisher 11.19.9 introduces a new API attribute, `LM_A_TRANSFER_STAT`. This attribute allows you to retrieve information about all features that are transferred from a parent licensing server to a remote licensing machine using the `lmtransfer` utility.

This enhancement is particularly useful for tracking usage, validating license transfers, and ensuring compliance when systems are temporarily disconnected from the network.

For more information, see “`LM_A_TRANSFER_STAT`” in the *FlexNet Publisher C/C++ Function Reference*.

Introduced Server Lines Enforcement

This release introduces a new keyword, `PLAT=n`, which can only be specified in the `SERVER` line of the license file. This enhancement allows you to restrict the license server manager (`lmgrd` only) operation to specific host environments—such as a physical machine, a virtual machine, or a container—based on deployment needs. The restriction is enforced according to the value assigned to the *n* parameter, which permits the specified host environment type.

Using this new keyword also ensures that the license server manager (`lmgrd` only) runs only on authorized host environments, enhancing control and compliance in increasingly virtualized or containerized infrastructures.

The following displays the a `SERVER` line syntax including the `PLAT=n` keyword:

```
SERVER host hostid [port] [PLAT=n]
```

where,

- **host:** Hostname of the license server.
- **hostid:** Host identifier (e.g., MAC address or CVD).
- **port:** (Optional) TCP/IP port number for communication.
- **PLAT=*n*:** (Optional) Host environment restriction keyword.

For more information on the valid values of the *n* parameter and the corresponding host environment, see “`SERVER` Lines” in the *FlexNet Publisher Programming Reference for License File-Based Licensing*.

Introduced New Hostid Type: BuiltIn-Composite Hostid

In FlexNet Publisher 11.19.9, a new hostid type, BuiltIn-Composite, has been introduced that indicates the system's composite host identifier, which encompasses all hardware and environment-specific attributes of the machine. Using a BuiltIn-Composite hostid provides a more robust and unique identification method for license enforcement. It is specifically used as the identifier only on Windows and Linux platform machines.

The validation process of the BuiltIn-Composite hostid by the vendor daemon plays a vital role in the server's piracy detection. During license server operations, verifying the composite hostid in the license file against the BuiltIn-Composite hostid helps ensure that licenses are being used only on authorized systems.

For more detailed information, see “Using BuiltIn-Composite Hostid for Windows and Linux Systems” in the *FlexNet Publisher Programming Reference for License File-Based Licensing*.

Notification Framework for Server Piracy Detection

FlexNet Publisher 11.19.9 introduces a new framework called Notification that is designed to enhance piracy detection capabilities for license servers. This framework allows the software publishers to integrate their own piracy detection logic for the license server into the licensing infrastructure.

With the Notification framework, detection results from the server-side piracy logic are communicated back to the client application, enabling publishers to define and implement customized client-side responses with precise control over how the application reacts to piracy detection.

By enabling a secure, controlled, and silent response mechanism for piracy detection, the Notification framework helps software publishers to:

- Protect intellectual property with greater effectiveness.
- Reduce the risk of license circumvention.
- Prevent crackers from reverse engineering the application to bypass the license validation mechanisms.

For more detailed information, see “Notification Framework” in the *FlexNet Publisher Programming Reference for License File-Based Licensing*.

Enabled License Transfer with Common Vendor Daemon in Transferrable Counted Model

FlexNet Publisher 11.19.9 introduces support for using the Common Vendor Daemon (CVD) setup in conjunction with the Transferrable Counted Model (TCM).

With this enhancement, license transfers can now be performed with configurations where multiple secondary vendor daemons are managed through a single, unified CVD. This streamlines the management and reduces deployment complexity in environments that require Transferrable Counted Model-based license mobility.

For more detailed information, see “Support for Common Vendor Daemon in Transferrable Counted Model” in the *FlexNet Publisher Programming Reference for License File-Based Licensing*.

New Variables for Imnewgen and Imrand1 Tools in makefile

In FlexNet Publisher 11.19.9, two new makefile variables, `LMNEWGEN` and `LMRAND1`, have been introduced to represent the code generation tools, `Imnewgen` and `Imrand1`, respectively in the makefile.

This enhancement allows users to reference the code generation tools via these new variables instead of invoking the executables or code generation tools directly within makefile rules. As a result, the makefile become more flexible and easier to customize in various use cases, such as:

- **Custom Tool Paths**—When the tools `lmnewgen` and `lmrand1` are not located in the system's default path, users can define these makefile variables to direct to their custom locations.
- **Alternative Implementation**—When users want to replace the standard code generation tools or executables with custom scripts, by defining these variables, such changes can be made without modifying each makefile rule where the code generation tools are invoked.

This enhancement makes the FlexNet Publisher kit generation process more adaptable across different environments.

Enhanced Debug Log Output with Peak RPS (Request Per Second) Logging

The debug log output (i.e. server log files) has been enhanced by including new logs named Peak RPS (Request Per Second). These new logs in the debug log output provide granular metrics on license servers' load. The Peak RPS entries are helpful in analyzing traffic patterns and evaluating the need for load balancing across multiple license servers.



Note - The Peak RPS entries for a license server are generated only when the server is in running condition and RPS logging is enabled.

For more details on Peak RPS (Request Per Second) logs, see “Peak RPS (Request Per Second) Entries in the Debug Log Output” in the *FlexNet Publisher License Administration Guide*.

Support to Notify Vendor Daemon When a Queued License is Dequeued and Checked Out

Starting in this release, a new vendor-defined callback named `ls_dequeuecallback` has been introduced. This new callback allows users to install or register a notification custom callback routine or function that is automatically invoked when a queued license request is granted—that is, when a queued license is successfully dequeued and checked out by a client application from a license server, but prior the same application is notified by the license server for this successful transaction. The notification custom callback function is invoked with a set of specified parameters, and its return value may be evaluated by the licensing framework to determine the subsequent internal actions or logging behavior.

This feature provides greater control and visibility into queued license activity, especially in environments where real-time notification of license availability is essential.

For more details, see “`ls_dequeuecallback`” in the *FlexNet Publisher Programming Reference for License File-Based Licensing*.

Support for macOS 26

FlexNet Publisher 11.19.9 release introduces support for the macOS 26 platform. Consider the following highlights pertaining to this platform support:

- Trusted storage-based licensing is supported on the macOS 26 platform.
- Certificate based licensing is supported on the macOS 26 platform.

Security Updates

This release includes the following security updates:

- [Third-Party Library Updates](#)

Third-Party Library Updates

OpenSSL

OpenSSL has been upgraded from version 3.0.15 to version 3.0.17.

(FNP-34212)

libxml2

libxml2 has been upgraded from version 2.13.5 to version 2.14.4.

(FNP-33845)

Mod-security

Mod-security has been upgraded from version 2.9.7 to version 2.9.11.

(FNP-33850)

Apache httpd

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

(FNP-33839)

libexpat

libexpat has been upgraded from version 2.6.3 to version 2.7.1.

(FNP-34262)

Crypto++

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

(FNP-33842)

Apache xerces-c

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

(FNP-33840)

OpenLDAP

OpenLDAP has been upgraded from version 2.6.4 to version 2.6.9.

(FNP-33851)

Dongle Updates

This section list the dongle drivers that have been updated in this release.

SafeNet Dongle Drivers

The SafeNet dongle drivers have been upgraded from version 10.11 to version 10.13.



Note - The dongle driver versions have been upgraded across all supported operating systems, with the exception of the RHEL 32-bit and SLES 32-bit operating systems.

(FNP-33853)

Wibu Dongle Drivers

The Wibu dongle drivers have been upgraded from version 6.60 to version 6.70.

(FNP-33853)

Platform Updates

This section lists platform updates for the following releases:

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

11.19.9 Updates

Updates have been made in the following areas for FlexNet Publisher 11.19.9:

- [Integrated Products and Tested Versions](#)
- [macOS](#)
- [Linux](#)
- [Oracle](#)
- [Hypervisor](#)

Integrated Products and Tested Versions

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

Product	Tested Version
FlexNet Operations	FlexNet Operations 2024.06 (24.6.0)
FlexNet Manager for Engineering Applications	FlexNet Manager for Engineering Applications 2025 R1 (15.19.0)
FlexNet Operations Cloud	FlexNet Operations Cloud 2025.02 (2025.09.76)

macOS

End of Life macOS 13

FlexNet Publisher no longer supports the macOS 13 platform from FlexNet Publisher release R2, 2025, onwards.

Support for macOS 26

FlexNet Publisher supports the macOS 26 platform from FlexNet Publisher release R2, 2025, onwards.

Linux

Support for RHEL 10

FlexNet Publisher supports the RHEL 10 platform from FlexNet Publisher release R2, 2025, onwards.

Support for SUSE Linux 15 SP7

FlexNet Publisher supports the SUSE Linux 15 SP7 platform from FlexNet Publisher release R2, 2025, onwards.

End of Support SUSE Linux 15 SP3

FlexNet Publisher will not support the SUSE Linux 15 SP3 platform from FlexNet Publisher release R1, 2026, onwards.

Oracle

Support for Oracle Java 25

FlexNet Publisher supports the Oracle Java 25 platform from FlexNet Publisher release R2, 2025, onwards.

Hypervisor

Support for VMware ESXi 8.x

FlexNet Publisher supports the VMware ESXi 8.x hypervisor from FlexNet Publisher release R2, 2025, onwards.

End of Support for VMware ESXi 7.x

FlexNet Publisher will not support the VMware ESXi 7.x hypervisor from FlexNet Publisher release R1, 2026, onwards.

End of Support for VMware Workstation 16

FlexNet Publisher will not support the VMware Workstation 16 hypervisor from FlexNet Publisher release R1, 2026, onwards.

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
FlexNet Operations	FlexNet Operations 2024.06 (24.6.0)
FlexNet Manager for Engineering Applications	FlexNet Manager for Engineering Applications 2024 R2 (15.18.0)
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
FlexNet Operations	FlexNet Operations 2022.05 (22.5.0)

Product	Tested Version
FlexNet Manager for Engineering Applications	FlexNet Manager for Engineering Applications 2024 R1 (15.17.0)
FlexNet Operations Cloud	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
FlexNet Operations	FlexNet Operations 2022.05 (22.5.0)
FlexNet Manager for Engineering Applications	FlexNet Manager for Engineering Applications 2023 R2 (15.16.0)
FlexNet Operations Cloud	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.

Toolkit Updates

This release includes the following toolkit update:

32-bit Imadmin

The 32-bit Imadmin toolkit will not be supported across all platforms from FlexNet Publisher release R1, 2026, 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 General Issues](#)

Resolved lmadmin, lmgrd, Vendor daemon, and Utility Issues

The following issues related to lmadmin, lmgrd, vendor daemon, or utilities were addressed in this release:

- [Enforcing Minimum ls_user_based_reread_delay Value to Correct License Server Log Behavior](#)
- [Automatic Reread Failure in Transferrable Counted Model with Common Vendor Daemon Configuration](#)
- [Vendor Daemon Crash Due to Missing USE_SERVER Line](#)
- [Debug Log and License Checkout Issues in Common Vendor Daemon Configuration](#)

Enforcing Minimum ls_user_based_reread_delay Value to Correct License Server Log Behavior

In FlexNet Publisher 11.19.8 and earlier versions, setting the `ls_user_based_reread_delay` vendor variable to a value less than 60 or 70 seconds led to an unexpected increase in the count—related to the `INCLUDE` entries for a `USER_BASED` feature in the options file—logged in the license server log file whenever the `lmreread` utility was executed.

This issue has been fixed by enforcing a minimum value of 600 seconds for the `ls_user_based_reread_delay` vendor variable during vendor daemon startup or restart.



Note • It is recommended to configure the `Ls_daemon_heartbeat_timeout` vendor variable to an appropriate higher value when the `lmreread` utility is executed on a server using the `USER_BASED` feature(s) that have an extensive or large number of `INCLUDE` or `INCLUDEALL` entries—typically thousands of `USERS` or `USER_GROUPS`—defined in the options file. This helps the vendor daemon to maintain the heartbeat connection with the license server manager (`lmgrd`) while processing such an extensive or large number of `INCLUDE` or `INCLUDEALL` entries.

(Case-02856868, FNP-32575)

Automatic Reread Failure in Transferrable Counted Model with Common Vendor Daemon Configuration

In the Transferrable Counted Model (TCM) with a common vendor daemon (CVD) configuration, the expiration of all transferred licenses associated with a secondary vendor daemon caused the automatic reread process to fail to continue serving the valid licenses from a primary vendor daemon. This issue has been fixed.

(FNP-34132)

Vendor Daemon Crash Due to Missing USE_SERVER Line

A vendor daemon crash was observed when performing a Reread operation while licenses were queued. This issue primarily occurred due to the absence of the `USE_SERVER` line in the license file. This issue has been fixed.

(Case 03047997, FNP-33983)

Debug Log and License Checkout Issues in Common Vendor Daemon Configuration

In the Common Vendor Daemon (CVD) setup, when more than 50 vendor daemons were configured, the license server debug log failed to capture the supported daemon list, and license checkout failures were observed. This issue has been fixed by upgrading the Common Vendor Daemon (CVD) setup to support a maximum of 200 vendor daemons, an increase from the previous limit of 50.

(Case 02973865, FNP-33057)

Resolved General Issues

The following general issues were resolved in this release:

- [Resolved Error Logging During Automatic Rollover Failure](#)
- [Resolved Error Display Issue on Dongle Detection Failure During lc_hostid Call](#)
- [Detection Failure for HOSTID_CONTAINER_ID on Docker Container](#)
- [Incorrect FLEXID9 README Statement in FlexNet Publisher Windows Toolkit](#)
- [License Checkout Failure in Multi-Triad Configuration](#)
- [Imstat Utility Connection Error on Older Servers](#)

Resolved Error Logging During Automatic Rollover Failure

A failure was observed during an automatic rollover of the debug log file, where a new log file was not generated as expected. Additionally, no related error code and message indicating the cause were logged, limiting the ability to analyze the issue and take corrective actions.

This issue has been fixed. Although the rolled-over debug log file is still not created in the event of the automatic rollover failure, the system now reliably logs a relative error code and message to aid in analysis and corrective actions.

(Cases 02718550, 02768445, 02997021; FNP-27681)

Resolved Error Display Issue on Dongle Detection Failure During lc_hostid Call

Previously, on both Windows and Linux machines, invoking the **lc_hostid** API function with a specified signature failed to display or return a proper error message when no dongle was connected to a system, even when dongle drivers were correctly installed.

This issue has been resolved. Now, if the **lc_hostid** API function is invoked with an appropriate required signature and a required dongle is not detected on the system, this function now returns an appropriate error message—indicating both the error code and a clear, descriptive message.

This enhances the troubleshooting and diagnostic clarity in dongle-based licensing environments.

For more details on relative error message, see “Flexible API Error Return Values” in *FlexNet Publisher C/C++ Function Reference*.

(Case 03043630, FNP-33936)

Detection Failure for HOSTID_CONTAINER_ID on Docker Container

A HOSTID_CONTAINER_ID within a Docker container running with a **private** control group name space mod—default Docker containers mode on cgroup v2 control group version from Dockers 20.10—failed to be detected. This issue has been fixed.

(Case 02825716, FNP-30907)

Incorrect FLEXID9 README Statement in FlexNet Publisher Windows Toolkit

Previously, the FLEXID9_README file in the FlexNet Publisher Windows toolkit included the following statement:

“Imadmin is a 32-bit binary. Therefore it needs haspsrm_win32.dll in order to show FLEXID9 hostids in the Imadmin web UI, even on 64-bit Windows systems. The dll is placed under <platform>/Imadmin folder.”

However, since FlexNet Publisher 11.19.6, the 64-bit version of Imadmin is included within the FlexNet Publisher Windows toolkit. This issue has been fixed by removing or deleting this statement (mentioned above) from the FLEXID9_README file.

(Case 02376377, FNP-24903)

License Checkout Failure in Multi-Triad Configuration

While using two separate triads, when the primary server of the second triad went down, license checkout requests intended for the second triad were failed with the following error:

Requested license not supported (checkout failed: No such feature exists)

This issue has been fixed and customers are now required to update their client applications to accommodate the fixes.

(Case 02971544, FNP-33015)

Imstat Utility Connection Error on Older Servers

On both Windows and Linux, using a newer Imstat utility version—such as v11.19.8, with an older license server version—such as v11.19.6, led to the following connection error display:

No socket connection to license server manager

The issue was caused by older servers lacking Bulk List API support and has been fixed.

(Case 03047280, FNP-33996)

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 nocompsrctab -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 lmgrd Port

When a secure utility communicates with a license server, the Wireshark tool captures the license file information on the lmgrd 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)

Vendor Daemon Crash Due to LM_A_MULTIPLE_CHECKOUT_DATA Usage

Multiple vendor daemon crashes are observed when a FlexEnabled application (lmflex) 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)

Longer-Expiry Licenses Removed with Earlier Expiring Licenses

When the transfer cache contains licenses with longer expiry intervals listed before those with shorter expiry intervals, there is a risk that the longer-expiry licenses may be inadvertently removed along with the licenses that expire earlier.

(FNP-34055)

Behavior of Automatic Reread on Simultaneous License Expirations

When multiple transferred licenses expire at the same time, and an automatic reread is triggered during that interval, all licenses that are already expired prior to the triggering of the automatic reread are removed. The remaining licenses that expire shortly will be removed during the next automatic reread cycle.

(FNP-34209)

Build Failure for Vendor-Defined Hostid on macOS and Linux

Building a `universal2_mac11` kit for a vendor-defined hostid (VDH) on macOS and Linux operating systems may fail with the following error messages:

- error: incompatible function pointer types
- error: call to undeclared function 'x_flexlm_gethostid'; ISO C99 and later do not support implicit function declarations [-Wimplicit-function-declaration]
- error: call to undeclared function 'x_flexlm_newid'; ISO C99 and later do not support implicit function declarations [-Wimplicit-function-declaration]

As a workaround, include the flags, `Wno-incompatible-function-pointer-types` and `Wno-implicit-function-declaration`, to the `XTRACFLAG` definition in the `makefile.act` (or “makefile”) as shown below:

```
XTRACFLAG = -fno-common -DMAC10 -DLM_INTERNAL -Wno-incompatible-function-pointer-types -Wno-implicit-function-declaration
```

(FNP-34829)

License Checkout Failure with LM_A_PORT_HOST_PLUS Set to 0 and PLAT Keyword

A license checkout may fail when the `LM_A_PORT_HOST_PLUS` API attribute is set to 0 and server line includes a `PLAT` keyword.

(FNP-34226)

lc_check_key API Failure with PLAT Keyword

A failure may occur when using the lc_check_key API and a PLAT keyword in the server line.

(FNP-34227)

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 Fails 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.

(FNP-30376)

Vendor Daemon Fails Due to an Older Imadmin or FlexEnabled App

A vendor daemon fails to appear when an earlier version of Imadmin is used for importing the installation files or an earlier version of a FlexEnabled app is 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.



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)

Invalid Pop-up During Imadmin Installation on macOS

An invalid pop-up may appear during the Imadmin installation on macOS platform.

(FNP-33097)

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), Imdia 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 Imgrd 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 Imgrd, 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 Imadmin](#)

Tested Platforms

The following sections describe the platforms tested with the FlexNet Publisher 2025 R2 (11.19.9) 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
Linux 64-bit	x64	RHEL 8 and 9 SLES 12 SP5, SLES 15 SP5, SLES 15 SP6, SLES 15 SP7, Ubuntu 22.04*, and Ubuntu 24.04.
Linux 64-bit	ARMv8-A (AArch64)	RHEL 8 SLES 15*
macOS/OS X 64-bit	x64	macOS 14.X* macOS 15.X macOS 26.X

Table 1 • Tested Platforms—C/C++ Toolkits

Platform Type	Hardware Type	Operating System
macOS ARM 64-bit	ARM-64	macOS 14.X*
		macOS 15.X
		macOS 26.X
Microsoft Windows 32-bit	x64	Windows 10
		Windows 11
		Windows Server 2016*
		Windows Server 2019
		Windows Server 2022
		Windows Server 2025
Microsoft Windows 64-bit	x64	Windows 10
		Windows 11
		Windows Server 2016*
		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 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 17
	● Windows x64	OpenJDK 21
	● Linux x86	OpenJDK 25
	● 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 R2 (11.19.9). 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
Platform Name	i86_n
Package Identifier	i86_n3
Tested Compiler	<ul style="list-style-type: none"> ● Visual Studio 2022 (17.14.7) ● Visual Studio 2019 (16.11.45)* ● Visual Studio 2017 (15.9.71)* ● Visual Studio 2015 Update 3* ● Visual Studio 2013 Update 5*

Item	Description
Notes	<ul style="list-style-type: none"> Multiple Ethernet hostids are supported. Short-code transactions are supported. Prepped Trusted Configuration is supported. Tested virtual machine platforms include: <ul style="list-style-type: none"> VMware Workstation 16.1.2 VMware ESXi 7 Microsoft Windows Server 2019 Hyper-V* Microsoft Windows Server 2022 Hyper-V Microsoft Windows 10 Hyper-V* Citrix XenServer 8.2 Oracle Virtual Box 7.0.13 Parallels Desktop 20 for macOS 13.2 everRun 7.9.1* Nutanix AHV (Version 2020.09.16 Community Edition)* QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> Hypervisor: qemu-kvm-ev-3.2.0 Hypervisor Services: libvirt-daemon-kvm-8.0.0 Virtual Machine Manager: vmm v3.2.0
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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
Platform Name	x64_n
Package Identifier	x64_n6

Item	Description
Tested Compiler	<ul style="list-style-type: none"> ● Visual Studio 2022 (17.14.7) ● Visual Studio 2019 (16.11.45) ● Visual Studio 2017 (15.9.71) ● Visual Studio 2015 Update 3* ● Visual Studio 2013 Update 5*
Notes	<ul style="list-style-type: none"> ● <code>lmadmin</code> is supported using its 64-bit binary. While the 32-bit <code>lmadmin</code> binary (contained in the <code>x86_n3</code> toolkit) continues to be supported on 64-bit systems, Revenera recommends using the 64-bit binary on 64-bit systems. ● Multiple Ethernet hostids are supported. ● Short-code transactions are supported. ● Prepped Trusted Configuration is supported. ● The <code>lmtools</code> utility cannot interact with the license server manager (<code>lmgrd</code>) when <code>lmgrd</code> is run as a service. ● Tested virtual machine platforms include: <ul style="list-style-type: none"> VMware Workstation 16.1.2 VMware ESXi 7 Microsoft Windows Server 2019 Hyper-V* Microsoft Windows Server 2022 Hyper-V Microsoft Windows 10 Hyper-V* Citrix XenServer 8.2 Oracle Virtual Box 7.0.13 Parallels Desktop 20 for macOS 13.2 everRun 7.9.1* Nutanix AHV (Version 2020.09.16 Community Edition)* QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> ● Hypervisor: <code>qemu-kvm-ev-3.2.0</code> ● Hypervisor Services: <code>libvirt-daemon-kvm-8.0.0</code> ● Virtual Machine Manager: <code>vmm v3.2.0</code>
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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">● gcc 11.2.1 (RHEL 9)● gcc 8.5.0 (RHEL 8.5)

Item	Description
Notes	<ul style="list-style-type: none"> ● Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement. ● FlexNet Publisher qualifies the default GCC version that comes with the OS. ● lmadm is supported using its 32-bit binary. ● Multiple Ethernet hostids are supported. ● Short-code transactions are supported. ● Prepped Trusted Configuration is supported. ● Tested virtual machine platforms include: <ul style="list-style-type: none"> VMware ESXi 7 VMware Workstation 16.1.2 Microsoft Windows Server 2019 Hyper-V* Microsoft Windows Server 2022 Hyper-V Microsoft Windows 10 Hyper-V* Citrix XenServer 8.2 Oracle Virtual Box 7.0.13 Parallels Desktop 20 for macOS 13.2 everRun 7.9.1* Nutanix AHV (Version 2020.09.16 Community Edition)* QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> ● Hypervisor: qemu-kvm-ev-3.2.0 ● Hypervisor Services: libvirt-daemon-kvm-8.0.0 ● Virtual Machine Manager: vmm v3.2.0
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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
Platform Name	x64_linux
Package Identifier	x64_linux
Tested Compiler	For x64: <ul style="list-style-type: none">● gcc 14.2.1 (RHEL 10)● gcc 11.13.1 (RHEL 9.5)● gcc 11.13.1 (RHEL 9.1)● gcc 8.5.0 (RHEL 8.9)● gcc 8.5.0 (RHEL 8.6)● gcc 8.5.0 (RHEL 8.5)● gcc 7.5.0 (SLES 15 SP7)● gcc 7.5.0 (SLES 15 SP6)● gcc 7.5.0 (SLES 15 SP5)● gcc 7.5.0 (SLES 15 SP4)● gcc 13.3.0 (Ubuntu 24.04)● gcc 11.4.0 (Ubuntu 22.04)

Item	Description
Notes	<ul style="list-style-type: none"> ● Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement. ● 1madmin is supported using its 64-bit binary. ● Multiple Ethernet hostids are supported. ● Short-code transactions are supported. ● Prepped Trusted Configuration is supported (x64_linux only). ● No dongle support on SLES 15 ● Tested virtual machine platforms include: <ul style="list-style-type: none"> VMware ESXi 7 VMware ESXi 8 VMware Workstation 16.1.2 Microsoft Windows Server 2019 Hyper-V* Microsoft Windows Server 2022 Hyper-V Microsoft Windows 10 Hyper-V* Citrix XenServer 8.2 Oracle Virtual Box 7.0.13 Parallels Desktop 20 for macOS 13.2 everRun 7.9.1* Nutanix AHV (Version 2020.09.16 Community Edition)* QEMU-KVM (Host OS: CentOS 8) <ul style="list-style-type: none"> ● Hypervisor: qemu-kvm-ev-3.2.0 ● Hypervisor Services: libvirt-daemon-kvm-8.0.0 ● Virtual Machine Manager: vmm v3.2.0
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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">● gcc 8.5.0 (RHEL 8.6)● gcc 7.3.1 (SLES 15*)
Notes	<ul style="list-style-type: none">● Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement.● <code>ladmin</code> is not supported in this toolkit● No VM detection or VMID hostid support● No dongle support● No trusted storage support
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">● x64_mac
Package Identifier	<ul style="list-style-type: none">● universal2_mac11

Item	Description
Tested Compiler	<ul style="list-style-type: none"> ● Xcode 15.2 ● Xcode 14.3 ● Xcode 26 ● Apple clang version 17.0.0 (clang-1700.3.13.4) ● Apple clang version 16.0.0 (clang-1600.0.26.3) ● Apple clang version 15.0.0 (clang-1500.1.0.2.5)
Notes	<ul style="list-style-type: none"> ● Multiple Ethernet hostids are not supported. ● Short-code transactions are supported. ● Prepped Trusted Configuration is supported. ● For building requirements, see Requirements for Building the macOS/OS X Licensing Toolkit.
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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 14.6.1, use Xcode 15.2
- For macOS 15.0, use Xcode 16
- For macOS 26.0, use Xcode 26

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 14.6.1, 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.
- For macOS 26.0, 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
Platform Name	<ul style="list-style-type: none">universal2_mac
Package Identifier	<ul style="list-style-type: none">universal2_mac11
Tested Compiler	<ul style="list-style-type: none">Xcode 14.3Xcode 26.0Apple clang version 17.0.0 (clang-1700.3.13.4)Apple clang version 14.0.3 (clang-1403.0.22.14.1)
Notes	<ul style="list-style-type: none">Prepped Trusted Configuration is supported.For building requirements, see Requirements for Building the macOS/OS X Licensing Toolkit.
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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 15.0, use Xcode 14.3
- For macOS 26.0, use Xcode 26

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 15.0, use `xcode-select --print-path` to obtain the correct path and choose an appropriate SDK path.
- For macOS 26.0, 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
Platform Name	<ul style="list-style-type: none">● x86_sol (on x86)● sun4_u (on SPARC 32-bit)
Package Identifier	<ul style="list-style-type: none">● x86_sol10 (on x86)● sun4_u10 (on SPARC 32-bit)
Tested Compiler	For x86: <ul style="list-style-type: none">● cc (Sun C) 5.11● cc (Sun C) 5.15 For SPARC 32-bit: <ul style="list-style-type: none">● cc (Sun C) 5.14● cc (Sun C) 5.15
Notes	<ul style="list-style-type: none">● lmadm.in is supported in this toolkit.● Synchronous I/O multiplexing, via select, is supported for up to 65,535 file descriptors.● The number of system semaphore arrays can become exhausted.● Shared objects might not run when compiled with gcc on SPARC 32-bit.● Multiple Ethernet hostids are not supported.● Prepped Trusted Configuration is supported.
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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
Platform Name	<ul style="list-style-type: none">x64_sun (on x64)sun64_u (on SPARC 64-bit)
Package Identifier	<ul style="list-style-type: none">x64_sun10 (on x64)sun64_u10 (on SPARC 64-bit)
Tested Compiler	For x64: <ul style="list-style-type: none">cc (Sun C) 5.11cc (Sun C) 5.15 For SPARC 64-bit: <ul style="list-style-type: none">cc (Sun C) 5.14cc (Sun C) 5.15
Notes	<ul style="list-style-type: none">ladmin is supported using its 64-bit binary. While the 32-bit ladmin 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.Shared objects might not run when compiled with gcc on SPARC 64-bit.Multiple Ethernet hostids are not supported.Prepped Trusted Configuration is supported.
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	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
Platform Name	ppc_u
Package Identifier	ppc_u5 (on PowerPC™)

Item	Description
Tested Compiler	PowerPC cc (IBM XLC): 13.1.3 (AIX 7.2*)
Notes	<ul style="list-style-type: none"> • lmadm is supported in this toolkit. • The AIX FlexNet Publisher client libraries are PIC by default; therefore, only one version of these libraries is provided in the toolkit. • Java SDK is not supported.
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.

AIX 64-bit

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

Item	Description
Platform Name	rs64_u
Package Identifier	rs64_u5 (on PowerPC™)
Tested Compiler	PowerPC cc (IBM XLC): 13.1.3 (AIX 7.2*)
Notes	<ul style="list-style-type: none"> • 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. • You must use ar -X64 and strip -X64 on this platform. • The AIX FlexNet Publisher client libraries are PIC by default; therefore only one version of these libraries is provided in the toolkit. • Java SDK is not supported.
Toolkit Functionality	Licensing based on license files.

Item	Description
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.

Java Standard Edition

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

Item	Description
Platform Name	java
Package Identifier	Not applicable
Tested Compiler	<ul style="list-style-type: none"> ● OpenJDK 17 ● OpenJDK 21 ● OpenJDK 25
Notes	<ul style="list-style-type: none"> ● Implements the FlexNet Licensing for Java client library only. ● Requires a C development environment. ● Requires tamper-resistant licenses (TRL) to be enabled.
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	No support for tamper-resistant applications. The toolkit is labeled as <i>notr</i> .

Toolkits That Support Prepped Trusted Configuration

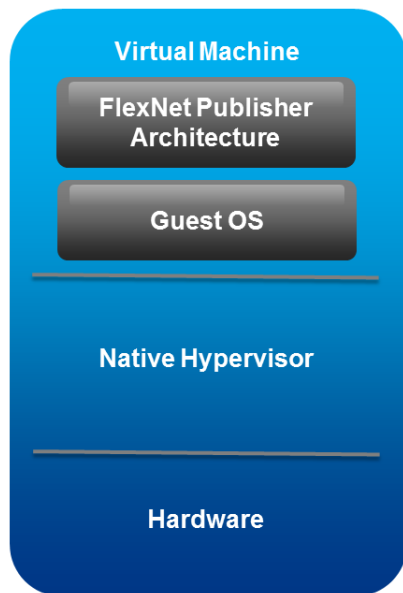
Toolkit platforms that support prepped Trusted Configuration (and therefore server-side local trial ASRs) include the following:

- 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 8
		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 8
		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	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	Windows Server 2025			VMware ESXi 8*
				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	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, SLES 15 SP6, and SLES 15 SP7	VMware ESXi 7 VMware ESXi 8 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 10	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	• Ubuntu 24.04	Microsoft Azure	License servers: VM_UUID FlexEnabled clients: AMZN_IID ETHER

Table 4 ▪ Tested Cloud Environments

FlexNet Publisher Architecture	Tested OS	Cloud Platform	Host ID
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

Table 5 - Tested lmadmIn Platforms

Platform Architecture	Processor Type	Operating System
Linux 64-bit	x64	RHEL 8 and 9
		SLES 15 SP3, SLES 15 SP4, SLES 15 SP6, and SLES 15 SP7
		Ubuntu 24.04
macOS/OS X 64-bit	x64	macOS 15.0 and macOS 26
macOS ARM 64-bit	ARM-64	macOS 15.0 and macOS 26
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 lmadmIn binaries. Revenera recommends their use on 64-bit platforms. Separate 32-bit lmadmIn installers and binary archives are also available and can be used on 64-bit platforms if necessary.

Additional System Requirements

lmadmIn has these additional requirements:

- To use lmadmIn on Windows platforms, the relevant Microsoft Visual C++ 2015-2022 Redistributable Package 14.31.31103 must be installed.
- The lmadmIn 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 lmadmIn installer.
- The OpenJDK 21.0.5 and OpenJDK 25 are tested Java Standard Edition systems for installing the lmadmIn.

Tested Browsers

ladmin 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 ladmin 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 ladmin installation on macOS/OS X	On macOS/OS X, the ladmin installer no longer supports Console mode.
Non-multithreaded libraries	The following UNIX client libraries used with applications that do not use native multithreaded libraries have been deprecated: <ul style="list-style-type: none">● liblmgr_nomt_pic.a● liblmgr_nomt_pic_tr1.a● liblmgr_nomt.a● liblmgr_nomt_tr1.a
License Generator toolkit	License Generator toolkit is end-of-life. Instead, the responsegen shared object API has been exposed; see the example <code>.\examples\activation\responsegen\ResponseGenA pi.c</code> .
AMZN_IID, HPV_UUID, VMW_UUID	Replaced by VM_UUID
lmbind & LMB_* hostids	lmbind is no longer packaged with FlexNet Publisher archives. lmbind sections have been removed from documentation

Table 6 - Deprecated Features and Commands

Deprecated Features and Commands	Comments
VMW_* and HPV_* hostids	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)
Non trial-id trial ASRs	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.
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 lc_convert 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.

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