FlexNet Publisher 2026 R1 (11.19.10) Release Notes

March 2026
Revision 04

Introduction 3
Enhancements 3
Security Updates 7
Dongle Updates 8
Platform Updates 8
11.19.10 Updates 8
Integrated Products and Tested Versions 9
Hypervisor 9
Linux OS 9
lmadmin 10
macOS 10
Oracle 10
Windows 10
11.19.9 Updates 10
Integrated Products and Tested Versions 11
macOS 11
Linux 11
Oracle 11
Hypervisor 12
11.19.8 Updates 12
Integrated Products and Tested Versions 12
macOS 12
Linux OS 13
Windows OS 13
11.19.7 Updates 13
Integrated Products and Tested Versions 13
macOS 14
Linux OS 14
HP-UX 14
Toolkit Updates 15
Resolved Issues 15
Resolved lmadmin, lmgrd, Vendor daemon, and Utility Issues 15
Resolved Issues Between Client and License Server 16
Resolved Issues Specific to Secured Communication 17

Known Issues **17**
Known General Issues **17**
Known Dongle Issues **21**
Known lmadmin Issues **21**
Known Issues Specific to License File–Based Licensing **23**
System Requirements **23**
Tested Platforms **23**
C/C++ Toolkits 24
Java Toolkits 25
Detailed Platform Information 26
Toolkits That Support Prepped Trusted Configuration 37
Virtualization 38
Tested Cloud Environments 42
System Requirements for lmadmin **43**
Tested Platforms 43
Additional System Requirements 44
Tested Browsers 44
Deprecated Features and Commands **45**
Legal Information **47**

Introduction

This Release Notes document summarizes the enhancements and updates delivered with FlexNet Publisher 2026 R1 (11.19.10) in March 2026. 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:

- Introduced LM_A_TRANSFER_STAT and lmtransfer to Enhance Visibility into Transferred License Usage
- Introduced Ability to Identify Licenses Served from Transfer Cache
- Introduced Offline Activation Support for Client-Side Trusted Storage to Enable Air-Gapped Licensing with Any Back-Office System
- Introduced New Utility to Decode Built-In Composite Hostids and Identify Deviations
- Enhanced ls_vendor_periodic_server_status_check Callback for Built-In Composite Hostid Deviation Insights
- Enhanced License Checkout With Validation Across All Configured Non-Loopback Client IPs
- Introduced New API to Enable Larger and Variable Data Exchange Between Vendor Daemons and Clients
- Introduced Sorted Reserve License Handling to Enhance License Semantics
- Introduced Debian 13 Support
- Introduced arm64_n Toolkit

Introduced LM_A_TRANSFER_STAT and lmtransfer to Enhance Visibility into Transferred License Usage

FlexNet Publisher 11.19.10 introduces an enhancement to license transfer monitoring capabilities in the Transferable Counted Model (TCM) approach. This enhancement extends the **LM_A_TRANSFER_STAT** attribute and `lmtransfer` utility to enable retrieval of the transferred license count, in addition to the details of the associated features, when license transfers are performed using the Transferable Counted Model (TCM) approach.

When you invoke the **lc_get_attr()** function with the **LM_A_TRANSFER_STAT** attribute, or execute the `lmtransfer vendorname -status` command, the output now displays transferred feature details along with the corresponding license count.

(Case 04341184, FNP-34146)

Introduced Ability to Identify Licenses Served from Transfer Cache

FlexNet Publisher 11.19.10 introduces a new `nConfigType` value, `FNP_CONFIG_TYPE_TRANSFERRED`, that is defined within the `CONFIG` structure in the `lmclient.h` header file. This new `nConfigType` value allows a client application to determine the origin of a checked out license—specifically, whether the license is being served from a local transfer cache.

In an environment that uses the Transferrable Counted Model (TCM) approach, licenses checked out requested by other client machines may be fulfilled from the server transfer cache as a source available on the remote licensing server. The introduction of `FNP_CONFIG_TYPE_TRANSFERRED` as a `nConfigType` value provides a programmatic way for client applications to detect such condition for any required license.

This capability is particularly beneficial in scenarios involving offline or intermittently connected machines, where understanding the current license source is essential for compliance, troubleshooting, and user transparency.

For more details, see “Determining License Source and Count of a Feature” in the *FlexNet Publisher 2026 R1 (11.19.10) C/C++ Function Reference*.

(Case 02861458, FNP-32062)

Introduced Offline Activation Support for Client-Side Trusted Storage to Enable Air-Gapped Licensing with Any Back-Office System

Previously, the manual activation of a license rights on a client-side trusted storage—using XML-based request and response files—was not supported when a FlexEnabled client application was not connected to a license server or no internet connection was available.

FlexNet Publisher 11.19.10 introduces an enhancement to the manual activation transaction workflow—using XML-based request and response files—that now allows you to activate license rights to client-side trusted storage even when a FlexEnabled client application is completely offline or not connected to a license server. This enhanced workflow allows activation requests and responses to be processed through any back-office system, providing greater flexibility for deployments in restricted or air-gapped environments.

To support the offline manual activation capability, the following new example utilities and API function are introduced:

- **serveractutilOff**—An example server activation utility used by a license server to handle activation request files originating from offline client applications and to generate the corresponding offline server responses.

  For more details, see the "Building a Server Activation Utility for Single-Action Transactions" chapter in the *FlexNet Publisher 2026 R1 (11.19.10) Programming Reference for Trusted Storage–Based Licensing*.

- **appactutilOff**—An example application activation utility used by an offline FlexEnabled client application to generate activation request files.

  For more details, see the "Building an Application Activation Utility for Single-Action Transactions" chapter in the *FlexNet Publisher 2026 R1 (11.19.10) Programming Reference for Trusted Storage–Based Licensing*.

- **flxActSvrActivationAppReqProcess**—A new API function invoked with an example server activation utility to process activation requests received from offline FlexEnabled client machines and to create the corresponding offline responses at the license server end.

  For more details, see "flxActSvrActivationAppReqProcess" in the *FlexNet Publisher 2026 R1 (11.19.10) C/C++ Function Reference*.

(Case 02887699, FNP-32383)

Introduced New Utility to Decode Built-In Composite Hostids and Identify Deviations

FlexNet Publisher 11.19.10 introduces a new utility, `lmbicompdecode`, that allows you to decode the BuiltIn-Composite hostid into its constituent components. This utility can also be used to identify and retrieve constituent component details of the deviated BuiltIn-Composite hostid that deviate or differ from their expected values.

For more information about the utility's syntax and platform availability, see "lmbicompdecode" in the *FlexNet Publisher 2026 R1 (11.19.10) Programming Reference for License File–Based Licensing*.

(FNP-34993)

Enhanced ls_vendor_periodic_server_status_check Callback for Built-In Composite Hostid Deviation Insights

FlexNet Publisher 11.19.10 introduces enhancements to the `ls_vendor_periodic_server_status_check` vendor-defined callback function that provide vendors with richer diagnostic and security insights during periodic checks in addition to detecting potential piracy attempts on the license server. Specifically, the callback function now enables you to retrieve the following:

- The deviated BuiltIn-Composite hostid.
- The deviation percentage associated with the deviated Built-In Composite hostid.
- Access detailed information about constituent components of the hostid that have deviated from their expected values.

These enhancements allow vendors to implement more robust monitoring and enforcement logic, improving license integrity and security.

For more details, see “ls_vendor_periodic_server_status_check” in the *FlexNet Publisher 2026 R1 (11.19.10) Programming Reference for License File–Based Licensing*.

(FNP-34993)

Enhanced License Checkout With Validation Across All Configured Non-Loopback Client IPs

FlexNet Publisher 11.19.10 introduces a new attribute, **LM_A_MULTI_IP_SUPPORT**, that allows you to enable enhanced IP address validation during license checkout.

When this validation functionality is enabled, the vendor daemon validates the IP address specified in the license file against all IP addresses (non-loopback) configured on the client machine, including both the primary and secondary IP addresses. Once validation succeeds or a matching IP address is found, the license checkout is permitted.



***Note** ▪ This attribute supports IPV4 address based-validation only during license checkout.*

For more details, see “LM_A_MULTI_IP_SUPPORT” in *FlexNet Publisher 2026 R1 (11.19.10) C/C++ Function Reference*.

(Case 02858634, FNP-32241)

Introduced New API to Enable Larger and Variable Data Exchange Between Vendor Daemons and Clients

FlexNet Publisher 11.19.10 introduces a new API, **lc_vsend_ex**, which supports variable-size message exchange between a client application and the vendor daemon.

This API enables a client application to send a variable-size message—up to 2 MB—to the vendor daemon and receive a variable-size string response—up to 10 MB—in return. The API supports only synchronous vendor-defined communication; after sending a message the client blocks until the vendor daemon processes the request and returns a response.

Along with this API, a new vendor variable, `ls_vendor_msg_ex`, has been introduced. This variable allows you to register a callback routine in the vendor daemon to process messages received from the client application, which uses the **lc_vsend_ex** API, and to generate the corresponding response.

This enhancement is particularly useful in scenarios where vendor-defined communication requires the exchange of larger data sets, structured payloads, or extended response information.

For more details, see the following:

- “lc_vsend_ex” in *FlexNet Publisher 2026 R1 (11.19.10) C/C++ Function Reference*.
- “ls_vendor_msg_ex” in *FlexNet Publisher 2026 R1 (11.19.10) Programming Reference for License File–Based Licensing.*

(Cases 02864800, 02905430, 02914151; FNP-32008)

Introduced Sorted Reserve License Handling to Enhance License Semantics

FlexNet Publisher 11.19.10 introduces a new vendor variable, `ls_maintain_sorted_reserve_list`, which controls how reserve information—`lmstat` output pertaining to reserve licenses for specific users, hosts, or groups—is maintained in the license server.

When the `ls_maintain_sorted_reserve_list` vendor variable is configured to a value of `1`, the reserve information is maintained in a sorted order within the license server. The sorted entries strictly follow the sequence of `RESERVE` lines as defined in the options file, improving clarity and making the output easier to interpret and aligned with the configured policy.

For more details, see "ls_maintain_sorted_reserve_list" in *FlexNet Publisher 2026 R1 (11.19.10) Programming Reference for License File–Based Licensing*.

(Case 02899676, FNP-33548)

Introduced Debian 13 Support

FlexNet Publisher 11.19.10 adds support for the Debian 13 platform. This update enables applications that use FlexNet Publisher licensing to operate on systems running Debian 13.

Introduced arm64_n Toolkit

FlexNet Publisher 11.19.10 introduces a new toolkit, arm64_n, to extend support for certificate-based licensing on the Windows Arm64 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 3.0.17 to version 3.0.18.

(FNP-35097)

libexpat

libexpat has been upgraded from version 2.7.1 to version 2.7.3.

(FNP-35099)

OWASP mod-security

OWASP mod-security has been upgraded from version 2.9.11 to version 2.9.12.

(FNP-35090)

libxml2

libxml2 has been upgraded from version 2.14.4 to version 2.15.1.

(FNP-35084)

Apache httpd

Apache httpd has been upgraded from version 2.4.63 to version 2.4.66.

(FNP-35063)

OpenLDAP

OpenLDAP has been upgraded from version 2.6.9 to version 2.6.10.

(FNP-35092)

Dongle Updates

There is no dongle driver upgrade in this release.

Platform Updates

This section lists platform updates for the following releases:

- 11.19.10 Updates
- 11.19.9 Updates
- 11.19.8 Updates
- 11.19.7 Updates

11.19.10 Updates

Updates have been made in the following areas for FlexNet Publisher 11.19.10:

- Integrated Products and Tested Versions
- Hypervisor
- Linux OS
- lmadmin
- macOS
- Oracle
- Windows

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 R2 (15.20.0)
FlexNet Operations Cloud	FlexNet Operations Cloud 2026.03 (2026.03.66)

Hypervisor

End of Life VMware ESXi 7.x

FlexNet Publisher no longer supports the VMware ESXi 7.x hypervisor from FlexNet Publisher release R1, 2026, onwards.

End of Life VMware Workstation 16

FlexNet Publisher no longer supports the VMware Workstation 16 hypervisor from FlexNet Publisher release R1, 2026, onwards.

Linux OS

End of Life SUSE Linux 12 SP5

FlexNet Publisher no longer supports the SUSE Linux 12 SP5 platform from FlexNet Publisher release R1, 2026, onwards.

End of Life SUSE Linux 15 SP3

FlexNet Publisher no longer supports the SUSE Linux 15 SP3 platform from FlexNet Publisher release R1, 2026, onwards.

End of Support SUSE Linux 15 SP4

FlexNet Publisher will not support the SUSE Linux 15 SP4 platform from FlexNet Publisher release R1, 2027, onwards

Support for Debian 13

FlexNet Publisher supports the Debian 13 platform from FlexNet Publisher release R1, 2026, onwards.

lmadmin

End of life lmadmin 32-bit

All 32-bit lmadmin toolkits, including those for Windows and Linux platforms, are no longer supported from FlexNet Publisher release R1, 2026, onwards.

macOS

Support for macOS 13

FlexNet Publisher supports the macOS 13 platform in FlexNet Publisher release R1, 2026.

Oracle

End of Support Oracle Java 17

FlexNet Publisher will not support the Oracle Java 17 platform from FlexNet Publisher release R1, 2027, onwards.

Windows

End of Support Windows 2016

FlexNet Publisher will not support the Window 2016 platform from FlexNet Publisher release R1, 2027, onwards.

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.

Toolkit Updates

This release includes the following toolkit updates:

Support for arm64_n Toolkit

FlexNet Publisher supports the arm64_n toolkit on the Windows Arm64 platform from FlexNet Publisher release R1, 2026, onwards.

End of Support 32-bit Linux Toolkit

FlexNet Publisher will not support the 32-bit Linux toolkit on SUSE Linux Enterprise Server (SLES) from FlexNet Publisher release R2, 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 lmadmin, lmgrd, Vendor daemon, and Utility Issues
- Resolved Issues Between Client and License Server
- Resolved Issues Specific to Secured Communication

Resolved lmadmin, lmgrd, Vendor daemon, and Utility Issues

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

- lmstat Utility Failure to Indicate Vendor Daemon Absence
- Incorrect Version-Level Queue Reported in lmstat Output for Multiple Version Feature
- Vendor Daemon Crash Due to Consecutive Corrupted Messages on Server

lmstat Utility Failure to Indicate Vendor Daemon Absence

An issue was identified with the `lmstat` utility. When no vendor daemon was running to serve any feature, the `lmstat -a --no-user-info` command execution failed to report an error message indicating the absence of the vendor daemon. This issue has been fixed.

(Case 02272840, FNP-24413)

Incorrect Version-Level Queue Reported in lmstat Output for Multiple Version Feature

When a feature was defined with multiple versions, a queued checkout detail for a feature version was listed under the usage detail section of a different version of the same feature in the `lmstat` utility output, instead of under the intended version usage detail section. This led to an incorrect version-level queue reporting while license enforcement remained unaffected. This issue has been fixed.

(Case 02755137, FNP-29371)

Vendor Daemon Crash Due to Consecutive Corrupted Messages on Server

A vendor daemon crash was observed when the license server received consecutive corrupted or malformed messages. Each occurrence was accompanied by the following error message:

```
SERVER-OUT: Failed to send the message(87)
```

This issue has been fixed by logging the associated user information in server logs and dropping the user connection when the corrupted or malformed messages are received consecutively by the license server from that user. In addition, administrators can permanently prevent access from the offending user by using the `EXCLUDE` keyword in the Options file.

(Case 04516901, FNP-34983)

Resolved Issues Between Client and License Server

The following issues related to the client and license server were resolved in this release:

- Incorrect Package License Count After License Server Restart
- Checkout Failure in Secondary Vendor Daemon Configured for Secure Communication
- Checkout Failure With Multiple License Versions for the Same Feature
- Checkout Failure After Inactive Checkin

Incorrect Package License Count After License Server Restart

An issue was identified where the `lmstat` utility output displayed incorrect package license consumption count after the license server was restarted, provided all components of the package had been checked out with their configured linger times. This issue has been fixed.

(Case 03906727, FNP-30842)

Checkout Failure in Secondary Vendor Daemon Configured for Secure Communication

When multiple vendor daemons were configured for secure communication, a license checkout failure was observed for one of the secondary vendor daemons in the group. This issue has been fixed.

(Case 02856588; FNP-26989, FNP-35364)

Checkout Failure With Multiple License Versions for the Same Feature

When a client application attempted to checkout a specific license version, for example version 2.0 for a feature, from the available license versions, such as 1.0 and 3.0 (including the same feature as the license version 2.0)—using a custom checkout that specified a `DUP_GROUP` and additional checkout data (such as the `LM_A_PORT_AT_HOST` attribute)—the checkout operation failure was observed with the error `-8` displayed.

This may have occurred since the license manager fulfilled the request using the available license version 1.0, which did not meet the requested version requirement. This issue has been fixed.

(Case 03577491, FNP-34568)

Checkout Failure After Inactive Checkin

Attempting to check out a license for a feature after an inactive checkin for the same feature—where the inactive checkin indicates that the client application no longer actively holds a previously checked out license—resulted in a checkout failure with an error displayed. This issue has been fixed.

(Case 04527026, FNP-35057)

Resolved Issues Specific to Secured Communication

The following issue related to secured communication was addressed in this release:

- Failure Issue in Triad Configured With Secure Communication

Failure Issue in Triad Configured With Secure Communication

On a Windows server platform, a triad with secure communication—enabled by setting the `ls_secure_comms` vendor variable to `1`—encountered a failure condition when any license server in the triad was shutdown or restarted. This issue has been fixed.

(Cases 02856588, 03606489; FNP-26640)

Known Issues

This release includes known issues in the following categories:

- Known General Issues
- Known Dongle Issues
- Known lmadmin Issues
- Known Issues Specific to License File–Based Licensing

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_trl.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)

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)

FlexNet Licensing Service Installation Failure on SUSE Machine

FlexNet Licensing Service (FNLS) fails to install on a SUSE machine due to the missing FUSE permission. Specifically, FNLS installation depends on the FUSE permission configured in the `/etc/fuse3.conf` file

Workaround:



Task ***To resolve this issue, update the FUSE configuration as follows:***

1. Open the `/etc/fuse3.conf` (FUSE configuration) file and add the following line:

   `user_allow_other`

2. Save the file.

3. Retry the installation of FlexNet Licensing Service (FNLS).

After applying this change, the FlexNet Licensing Service (FNLS) installation on SUSE machines must be completed successfully.

(FNP-35801)

Hostid Deviation Persists in Server Log After FlexNet Licensing Service Reinstallation

A host ID deviation, which is observed in the server log after uninstalling the FlexNet Licensing Service (FNLS), continues to persist in the server log after reinstalling the same.

(FNP-35640)

FQDN Reported in Hostid Deviation After Network Adapter Addition on Windows

On a Windows machine, after adding a new network adapter, the server log reports a hostid deviation with constituents Ethernet and FQDN, even though the FQDN has not been explicitly changed.

(FNP-35638)

Inconsistent Hostid Deviation Reported After Network Adapter Addition on Linux Virtual Machine

On a Linux virtual machine, adding a new network adapter results in a BuiltIn-Composite hostid change. Although the server log reports an invalid hostid due to this change, the notification framework does not report any deviation, leading to an inconsistent behavior.

(FNP-35636)

Hostid Deviation Not Reported in Triad Setup After FlexNet Licensing Service Uninstallation

On a triad configuration using BuiltIn-Composite hostids, uninstalling FlexNet Licensing Service (FNLS) on the primary server results in a change to the hostid; however, the server continues to operate even though the hostid no longer matches the value specified in the SERVER line. Additionally, the expected `Invalid hostid on SERVER line` message is not logged.

(FNP-35795)

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)

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 lmadmin Issues

lmadmin Silent Installer Not Displaying Required Error Message

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

(FNP-6942)

Unable to Start lmadmin Services Using CLI in Windows Server 2022

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

(FNP-26481)

lmadmin Login Error Observed in Windows Server 2022

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

(FNP-26482)

Vendor Daemon Fails Due to an Older lmadmin or FlexEnabled App

A vendor daemon fails to appear when an earlier version of lmadmin 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)

lmadmin Installer Failure on Solaris

The lmadmin installer fails to run on the Solaris platform when using the Java 8. However, the lmadmin 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 lmadmin Installation on macOS

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

(FNP-33097)

Known Issues Specific to License File–Based Licensing

lmdiag 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 lmgrd), lmdiag 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)

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 2026 R1 (11.19.10) 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 15 SP5, SLES 15 SP6, SLES 15 SP7, Ubuntu 22.04*, and Ubuntu 24.04.
	ARMv8-A (AArch64)	RHEL 8 SLES 15*
macOS/OS X 64-bit	x64	macOS 13.X macOS 14.X* macOS 15.X macOS 26.X
macOS ARM 64-bit	ARM-64	macOS 13.X 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

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

Platform Type	Hardware Type	Operating System
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.
	ARMv8-A (AArch64)	Windows 11
Solaris 32-bit	SPARC 32-bit x86	Solaris 11
Solaris 64-bit	SPARC 64-bit x86-x64	Solaris 11



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 • Windows x64 • Linux x86 • Linux x64 • macOS x64	OpenJDK 17 OpenJDK 21 OpenJDK 25



***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 2026 R1 (11.19.10). 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
- Microsoft Windows 64-bit (AArch64)
- Linux 32-bit
- Linux 64-bit
- ARMv8-A (AArch64)
- macOS/OS X 64-bit
- macOS ARM 64-bit
- Solaris 32-bit
- Solaris 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

Item	Description
Package Identifier	i86_n3
Tested Compiler	• Visual Studio 2026 (18.4.0) • Visual Studio 2022 (17.14.19) • Visual Studio 2019 (16.11.34)*

Notes	• Multiple Ethernet hostids are supported.
	• Short-code transactions are supported.
	• Prepped Trusted Configuration is supported.
	• Tested virtual machine platforms include:
	VMware Workstation 25.0.1
	VMware ESXi 7
	Microsoft Windows Server 2019 Hyper-V*
	Microsoft Windows Server 2022 Hyper-V
	Microsoft Windows 10 Hyper-V*
	Citrix XenServer 8.3
	Oracle Virtual Box 7.2.6
	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)
	  • 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 *standard*.



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
Tested Compiler	• Visual Studio 2026 (18.4.0) • Visual Studio 2022 (17.14.19) • Visual Studio 2019 (16.11.34)*

Notes	• `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.
	• Multiple Ethernet hostids are supported.
	• Short-code transactions are supported.
	• Prepped Trusted Configuration is supported.
	• The `lmtools` utility cannot interact with the license server manager (`lmgrd`) when `lmgrd` is run as a service.
	• Tested virtual machine platforms include:
	VMware Workstation 25.0.1
	VMware ESXi 7
	Microsoft Windows Server 2019 Hyper-V*
	Microsoft Windows Server 2022 Hyper-V
	Microsoft Windows 10 Hyper-V*
	Citrix XenServer 8.3
	Oracle Virtual Box 7.2.6
	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)
	  • Hypervisor: qemu-kvm-ev-3.2.0
	  • Hypervisor Services: libvirt-daemon-kvm-8.0.0
	  • Virtual Machine Manager: vmm v3.2.0

Item	Description
Toolkit Functionality	Licensing based on license files or trusted storage.
Security Functionality	Support for tamper-resistant applications. The toolkit is labeled as *standard*.



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 (AArch64)

The following table lists information about the Microsoft Windows 64-bit (AArch64) systems tested with the FlexNet Publisher Licensing Toolkit:

Item	Description
Platform Name	arm64_n
Package Identifier	arm64_n6
Tested Compiler	• Visual Studio 2022 (17.14.19)
Notes	• `lmadmin` is not supported in this toolkit • No VM detection or VMID hostid support • No dongle support • No trusted storage support • Tested virtual machine platforms include Parallels Desktop 26 for macOS 15.5
Toolkit Functionality	Licensing based on license files.
Security Functionality	Support for tamper-resistant applications. The toolkit is labeled as *standard*.

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

Item	Description
Tested Compiler	For x86: • gcc 11.2.1 (RHEL 9) • gcc 8.5.0 (RHEL 8.5)
Notes	• 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. • `lmadmin` 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: VMware ESXi 7 VMware Workstation 25.0.1 Microsoft Windows Server 2019 Hyper-V* Microsoft Windows Server 2022 Hyper-V Microsoft Windows 10 Hyper-V* Citrix XenServer 8.3 Oracle Virtual Box 7.2.6 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) ◦ 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 *standard*.



***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: • gcc 14.3.1 (RHEL 10.1) • gcc 11.5.0 (RHEL 9.7) • gcc 11.13.1 (RHEL 9.5) • gcc 11.3.1 (RHEL 9.2) • gcc 11.13.1 (RHEL 9.1) • gcc 11.2.1 (RHEL 9.0) • 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	• Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement.
	• `lmadmin` 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:
	VMware ESXi 7
	VMware ESXi 8
	VMware Workstation 25.0.1
	Microsoft Windows Server 2019 Hyper-V*
	Microsoft Windows Server 2022 Hyper-V
	Microsoft Windows 10 Hyper-V*
	Citrix XenServer 8.3
	Oracle Virtual Box 7.2.6
	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)
	  • 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 *standard*.



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	• gcc 8.5.0 (RHEL 8.6) • gcc 7.3.1 (SLES 15*)
Notes	• Customers can use any GCC that meets FlexNet Publisher's GLIBC version requirement. • `lmadmin` 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 *notr*.

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	• x64_mac
Package Identifier	• universal2_mac11

Item	Description
Tested Compiler	• Xcode 15.2 • Xcode 16.0 • 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	• 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 *standard*.

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.

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	• universal2_mac
Package Identifier	• universal2_mac11
Tested Compiler	• Xcode 14.3 • Xcode 26.0 • Apple clang version 17.0.0 (clang-1700.3.13.4) • Apple clang version 14.0.3 (clang-1403.0.22.14.1)

Item	Description
Notes	• 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.

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	• x86_sol (on x86) • sun4_u (on SPARC 32-bit)
Package Identifier	• x86_sol10 (on x86) • sun4_u10 (on SPARC 32-bit)
Tested Compiler	For x86: • cc (Sun C) 5.11 • cc (Sun C) 5.15 For SPARC 32-bit: • cc (Sun C) 5.14 • cc (Sun C) 5.15

Item	Description
Notes	• `lmadmin` 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 *standard*.

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	• x64_sun (on x64) • sun64_u (on SPARC 64-bit)
Package Identifier	• x64_sun10 (on x64) • sun64_u10 (on SPARC 64-bit)
Tested Compiler	For x64: • cc (Sun C) 5.11 • cc (Sun C) 5.15 For SPARC 64-bit: • cc (Sun C) 5.14 • cc (Sun C) 5.15

Item	Description
Notes	• `lmadmin` is supported using its 64-bit binary. While the 32-bit `lmadmin` 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 *standard*.

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	• OpenJDK 17 • OpenJDK 21 • OpenJDK 25
Notes	• 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 *notr*.

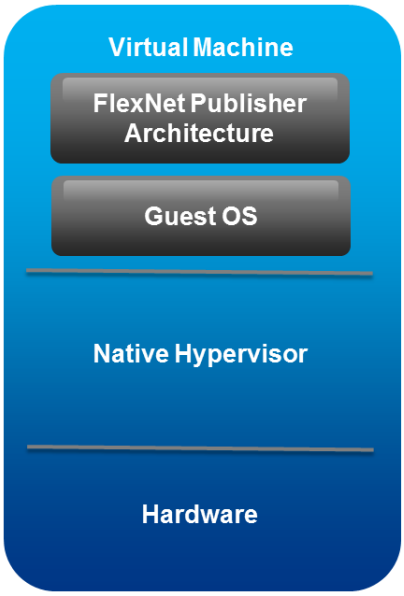
Toolkits That Support Prepped Trusted Configuration

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*
		Citrix XenServer 8.3*
		VMware Workstation 25.0.1*
		Oracle Virtual Box 7.2.6*
		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
		VMware ESXi 8*
		Citrix XenServer 8.3*
		VMware Workstation 25.0.1
		Oracle Virtual Box 7.2.6*
		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 8*
		Citrix XenServer 8.3
		VMware Workstation 25.0.1*
		Oracle Virtual Box 7.2.6*
		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
		VMware ESXi 8*
		Citrix XenServer 8.3*
		VMware Workstation 25.0.1
		Oracle Virtual Box 7.2.6
		QEMU-KVM
		PARALLELS*
		everRun 7.9.1*
		Microsoft Hyper-V from Windows 10 Enterprise*
		Microsoft Hyper-V from Windows Server 2022*
	Windows Server 2025	VMware ESXi 7*
		VMware ESXi 8
		Citrix XenServer 8.3
		VMware Workstation 25.0.1*
		Oracle Virtual Box 7.2.6
		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 25.0.1 Citrix XenServer 8.3* PARALLELS* Oracle Virtual Box 7.2.6 QEMU-KVM* everRun 7.9.1 Microsoft Hyper-V from Windows 10 Enterprise* Microsoft Hyper-V from Windows Server 2022*
x64 _linux	RHEL 8, 9, and 10 SLES 15 SP6 and SLES 15 SP7	VMware ESXi 7 VMware ESXI 8 VMware Workstation 25.0.1 Citrix XenServer 8.3 PARALLELS Oracle Virtual Box 7.2.6 QEMU-KVM everRun 7.9.1 Microsoft Hyper-V from Windows 10 Enterprise* 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 • Windows 10	Google Cloud Microsoft Azure	License servers: 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	Ubuntu 22.04	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.*

System Requirements for lmadmin

The following sections describe tested platforms and requirements for `lmadmin`:

- Tested Platforms
- Additional System Requirements
- Tested Browsers



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

Tested Platforms

`lmadmin` has been tested on the following platforms.

Table 5 ▪ Tested `lmadmin` Platforms

Platform Architecture	Processor Type	Operating System
Linux 64-bit	x64	RHEL 8 and 9 SLES 15 SP6 and SLES 15 SP7 Ubuntu 24.04

Table 5 ▪ Tested `lmadmin` Platforms

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



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

`lmadmin` is tested on the following Web browsers:

- **Red Hat Linux**—Mozilla Firefox 131.x, Google Chrome 146.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	The following UNIX client libraries used with applications that do not use native multithreaded libraries have been deprecated: • `liblmgr_nomt_pic.a` • `liblmgr_nomt_pic_trl.a` • `liblmgr_nomt.a` • `liblmgr_nomt_trl.a`
License Generator toolkit	License Generator toolkit is end-of-life. Instead, the responsegen shared object API has been exposed; see the example `.\examples\activation\responsegen\ResponseGenApi.c`.
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
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.

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 **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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