FLEXERA SOFTWARE

FLEXERA SOFTWARE™
FlexNet Publisher®

FlexNet Publisher 2016 (11.14.0)

Installation Guide

Legal Information

Book Name: Installation Guide

Part Number: FNP-11140-IG00

Product Release Date: May 2016

Copyright Notice

Copyright © 2016 Flexera Software LLC. All Rights Reserved.

This product contains proprietary and confidential technology, information and creative works owned by Flexera Software LLC and its licensors, if any. Any use, copying, publication, distribution, display, modification, or transmission of such technology in whole or in part in any form or by any means without the prior express written permission of Flexera Software LLC is strictly prohibited. Except where expressly provided by Flexera Software LLC in writing, possession of this technology shall not be construed to confer any license or rights under any Flexera Software LLC intellectual property rights, whether by estoppel, implication, or otherwise.

All copies of the technology and related information, if allowed by Flexera Software LLC, must display this notice of copyright and ownership in full.

Intellectual Property

For a list of trademarks and patents that are owned by Flexera Software, see http://www.flexerasoftware.com/intellectual-property. All other brand and product names mentioned in Flexera Software products, product documentation, and marketing materials are the trademarks and registered trademarks of their respective owners.

Restricted Rights Legend

The Software is commercial computer software. If the user or licensee of the Software is an agency, department, or other entity of the United States Government, the use, duplication, reproduction, release, modification, disclosure, or transfer of the Software, or any related documentation of any kind, including technical data and manuals, is restricted by a license agreement or by the terms of this Agreement in accordance with Federal Acquisition Regulation 12.212 for civilian purposes and Defense Federal Acquisition Regulation Supplement 227.7202 for military purposes. The Software was developed fully at private expense. All other use is prohibited.

Contents

Installing the FlexNet Publisher Licensing Toolkit on Windows 5

Installing the FlexNet Publisher Licensing Toolkit on UNIX and Mac 6

Installing the FlexNet Publisher Licensing Toolkit for Java 6

First Time Using the FlexNet Publisher Licensing Toolkit 7

- **Prerequisites** 7
- **Evaluating FlexNet Publisher Licensing Toolkit** 7
- **Evaluating the FlexNet Publisher Licensing Toolkit for Java** 8

Installing the FLEXnet Publisher Licensing Toolkit

This document describes how to install the FLEXnet Publisher Licensing Toolkit files that you have downloaded from the Flexera Software download site.

We recommend that you install the Licensing toolkit into a version specific directory. This ensures that any existing toolkit files are not overwritten.

Important • *Do not overwrite your existing versions of* `lm_code.h` *and* `publisher.xml`. *You need these files to build components that are compatible with your previously licensed products.*

Review the relevant instructions:

- Installing the FlexNet Publisher Licensing Toolkit on Windows
- Installing the FlexNet Publisher Licensing Toolkit on UNIX and Mac
- Installing the FlexNet Publisher Licensing Toolkit for Java
- First Time Using the FlexNet Publisher Licensing Toolkit

Installing the FlexNet Publisher Licensing Toolkit on Windows

Task: ***To install the toolkit on Windows:***

1. Create a directory for the Licensing toolkit files. This is the `<install_dir>`. We recommend that you label this directory to indicate the version of the toolkit, for example **`FNP_11.14.0`**
2. Extract the contents of the downloaded zip file into the `<install_dir>`.

Before using the toolkit, download and read the Release Notes and documentation relevant to the toolkit functionality that you are using.

Installing the FlexNet Publisher Licensing Toolkit on UNIX and Mac

Task: ***To install the toolkit on UNIX and Mac:***

1. Create a directory for the Licensing toolkit files. This is the `<install_dir>`. We recommend that you label this directory to indicate the version of the toolkit, for example `FNP_11.14.0`
2. Decompress the downloaded file using the `gzip` utility.
3. From your `<install_dir>`, extract the Licensing toolkit files using the tar command:

   ```
   tar -xvf <download_file_name>.tar
   ```

   where `<download_file_name>.tar` is the name of the file you have downloaded. This command extracts the toolkit files into your `<install_dir>` and preserves the toolkit directory structure.

Before using the toolkit, download and read the Release Notes and documentation relevant to the toolkit functionality that you are using.

SELinux impact on FlexNet Licensing Service

Security-Enhanced Linux (SELinux) is a Linux kernel security module that provides the mechanism for supporting access control security policies.

From v11.13.0 a warning message is displayed if SELinux is enabled on target machines that it can disrupt the operation of the FlexNet Licensing Service, this in turn might prevent the generation of Hostids, UMNs, and Binding items. While in most cases the loss of one such item may not adversely affect FlexNet Licensing, it is possible that particularly restrictive SELinux policies might prevent the successful operation of FlexNet Licensing.

The warning message that is displayed during the operation is:

```
*** WARNING: Running with SELINUX enabled can affect the operation of the FlexNet Licensing Service
*** Refer to the FlexNet Publisher Documentation for further details
```

In order for the FlexNet Licensing Service to operate successfully it may be necessary to modify the system's SELinux policies to allow the FlexNet Licensing Service executable to access the system components that are being blocked.

Task: ***For example configuring SELinux:***

1. To configure SELinux, $vi /etc/selinux/config

```
# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#     enforcing - SELinux security policy is enforced.
```

```
#     permissive - SELinux prints warnings instead of enforcing.
#     disabled - No SELinux policy is loaded.
```

2. To enable and disable SELinux,

```
SELINUX=disabled
# SELINUXTYPE= can take one of these two values:
#     targeted - Targeted processes are protected,
#     mls - Multi Level Security protection.
SELINUXTYPE=targeted
 # This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#     enforcing - SELinux security policy is enforced.
#     permissive - SELinux prints warnings instead of enforcing.
#     disabled - No SELinux policy is loaded.
SELINUX=enforcing
# SELINUXTYPE= can take one of these two values:
#     targeted - Targeted processes are protected,
#     mls - Multi Level Security protection.
SELINUXTYPE=targeted
```

3. Execute "`getenforce`" command to know the status.
4. As a root user after you configure and reboot the machine for the changes to take effect.

Note • *SELinux policies are likely different for different installations, consequently it is not possible to provide detailed instructions of how they should be modified in any particular case. It is recommended that you contact your System Administrator. For more details refer to the general approach mentioned in: http://wiki.centos.org/es/HowTos/SELinux.*

Installing the FlexNet Publisher Licensing Toolkit for Java

Task: ***To install the toolkit for Java on Windows:***

1. Double-click on the downloaded file to start the install process.
2. Follow the on-screen installation instructions.

Task: ***To install the toolkit for Java on UNIX:***

1. If this is the first time you have installed the Java toolkit, create a directory for the Licensing toolkit files. This is the `<install_dir>`.
2. If you have a previous version of the Java toolkit, you can use the existing `<install_dir>` as the installation extracts the toolkit files into a version specific sub-directory.
3. From your `<install_dir>`, extract the Licensing toolkit files using the tar command:

   ```
   tar -xvf <download_file_name>.tar
   ```

   where `<download_file_name>.tar` is the name of the file you have downloaded.

Before using the toolkit, download and read the Release Notes and documentation relevant to the toolkit functionality that you are using. All the Java toolkits include the Java API documentation in the `doc` directory.

First Time Using the FlexNet Publisher Licensing Toolkit

The Licensing toolkit contains sample licensing components and example licensed applications that can be used out of the box to evaluate FlexNet Licensing. These sample components are referred to as *demo* components and include a sample vendor daemon named `demo` (`demo.exe` on Windows). We recommend that you follow the instructions below to evaluate FlexNet Publisher Licensing Toolkit before using it with your own applications.

Prerequisites

To evaluate FlexNet Publisher Licensing Toolkit, you need the following:

- Demo vendor keys. Contact Flexera Software to obtain these. Demo vendor keys enable you to evaluate the toolkit on all the available platforms.
- A browser to view HTML documentation or Adobe Acrobat Reader to view PDF versions of the documentation.

To evaluate FlexNet Publisher Licensing Toolkit on Windows, you must be logged in with administrator privileges.

Evaluating FlexNet Publisher Licensing Toolkit

Before starting your evaluation, download the following documents:

- FlexNet Publisher Licensing Toolkit Release Notes
- Getting Started with License File-Based Licensing
- Getting Started with Trusted Storage-Based Licensing

- Development Environment Guide
- Programming Reference for License File-based Licensing
- Programming Reference for Trusted Storage-Based Licensing
- C/C++ Function Reference
- License Administration Guide

We recommend that you read these documents in the following order when evaluating the Licensing toolkit:

1. Read Chapter 2, **Introduction to License File-Based Licensing**, in *Getting Started with License File-based Licensing*.
2. Follow the relevant instructions for evaluating FlexNet Publisher licensing in *Getting Started with License File-Based Licensing*. Instructions are given for both Windows (Chapter 4) and UNIX (Chapter 5) platforms. These instructions use the `demo` licensing components to demonstrate simple licensing models that use license files.
3. Read Chapter 2, **FlexNet Publisher Licensing Concepts**, in *Getting Started with Trusted Storage-Based Licensing*. This explains how license rights held in trusted storage differ from those held in license files.
4. Perform the tutorials in Chapters 3, 4, and 5 of *Getting Started with Trusted Storage-Based Licensing*. These tutorials use the `demo` licensing components and example files to demonstrate license rights held in trusted storage for the example EZCalculator application. Although the instructions are described for a Windows environment, you can run the same tutorials in a UNIX environment.

   Important • *To run these tutorials, be sure that you install the FlexNet Publisher Licensing Service as described in the* Installing the Licensing Service *section in Chapter 3 of* Getting Started with Trusted Storage-Based Licensing.

5. Read additional chapters in *Getting Started with License File-Based Licensing* and *Getting Started with Trusted Storage-Based Licensing* to assess whether you want to use license files, trusted storage, or a combination of both.
6. Before proceeding to the next step of building your production toolkit(s), you need to purchase FlexNet Licensing toolkits and obtain production vendor keys.
7. Build your production toolkit(s) as described in Chapter 1 of *Development Environment Guide*.
8. Use the information in the relevant *Programming Reference* and *C/C++ Function Reference* to add licensing to your applications using your production toolkits.

Evaluating the FlexNet Publisher Licensing Toolkit for Java

Task: ***To evaluate the FlexNet Publisher Licensing Toolkit for Java:***

1. Download the *Licensing for Java Programming Reference Guide*.
2. Follow the evaluation instructions in the document:

- For UNIX in Chapter 2, **Evaluating FlexNet Licensing for Java on UNIX**.
- For Windows in Chapter 3, **Evaluating FlexNet Licensing for Java on Windows**.