

# **Driver Installation Guide**

## **for FlexNet ID Dongles**

# Legal Information

**Book Name:** Driver Installation Guide  
**Part Number:** FNP-11110-DIG00  
**Product Release Date:** February 2013

## Copyright Notice

Copyright © 2013 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.

FlexNet Publisher incorporates software developed by others and redistributed according to license agreements. Copyright notices and licenses for these external libraries are provided in a supplementary document that accompanies this one.

## 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

<b>1</b>	<b>FlexNet ID Dongles</b> .....	<b>5</b>
	<b>Toolkit Versions</b> .....	<b>5</b>
<b>2</b>	<b>Introduction</b> .....	<b>7</b>
	<b>About FlexID Dongles</b> .....	<b>7</b>
	<b>Purpose of This Guide</b> .....	<b>7</b>
	<b>Supported FlexNet ID Dongles</b> .....	<b>8</b>
	<b>Mapping of Previous Installers to Current Installers</b> .....	<b>10</b>
<b>3</b>	<b>Installing Dongle Drivers on Windows</b> .....	<b>13</b>
	<b>Where To Start</b> .....	<b>13</b>
	<b>Remove Pre-11.11.1 Dongle Drivers</b> .....	<b>13</b>
	Uninstall Using FLEXID_Dongle_Driver_Installer.exe .....	14
	Uninstall Using FLEXIDInstaller.exe .....	14
	<b>Install or Remove Current Dongle Drivers</b> .....	<b>14</b>
	Cautions .....	14
	Obtain the FLEXID Dongle-Driver Installer .....	15
	Install or Remove FLEXID9 Drivers .....	15
	Install FLEXID9 Drivers .....	15
	Remove FLEXID9 Drivers .....	15
	View Other Options .....	16
	Install or Remove FLEXID10 Drivers .....	16
	Install FLEXID10 Drivers .....	16
	Remove FLEXID10 Drivers .....	17

- 4 Installing Dongle Drivers on Mac ..... 19**
  - Install or Remove FLEXID9 Drivers .....19**
    - Install FLEXID9 Drivers .....19
    - Remove FLEXID9 Drivers .....20
  - Install or Remove the FLEXID10 Driver .....21**
    - Install FLEXID10 Drivers .....21
    - Remove FLEXID10 Drivers .....21
  
- 5 Installing Dongle Drivers on Linux ..... 23**
  - Install or Remove FLEXID9 Drivers .....23**
    - Remove Older Dongle-Driver Versions .....23
    - Install FLEXID9 Drivers .....24
    - Remove FLEXID9 Drivers .....24
  - Install or Remove FLEXID10 Drivers .....24**
    - Install FLEXID10 Drivers .....24
    - Remove FLEXID10 Drivers .....25
  
- 6 Testing the Dongle Driver Installation ..... 27**
  - Obtaining the Dongle Identity (FLEXID) .....27**
  - Issuing a License That Uses a FlexNet ID Dongle .....28**
    - Building the Licensing Toolkit With Dongle Support .....28
    - Issuing a License on an End-User Machine .....29
    - Issuing a License on a License Server .....29
  
- Index ..... 31**

# FlexNet ID Dongles

This manual describes how to install the drivers required on systems where FlexNet ID dongles are used to anchor license rights to a machine.

Topic	Content
<b>FlexNet ID Dongles</b>	Provides an overview of this manual and includes details of new features in this release.
<b>Introduction</b>	An introduction to FlexNet ID dongles.
<b>Installing Dongle Drivers on Windows</b>	Instructions for installing the dongle drivers on Windows platforms.
<b>Installing Dongle Drivers on Mac</b>	Instructions for installing the dongle drivers on Mac.
<b>Installing Dongle Drivers on Linux</b>	Instructions for installing the dongle drivers on UNIX platforms.
<b>Testing the Dongle Driver Installation</b>	How to test that a dongle driver is installed correctly.

## Toolkit Versions

This document describes the FlexNet ID Dongle driver installer files, available with your FlexNet Publisher licensing toolkit and on designated Flexera Software download sites.

## Chapter 1: FlexNet ID Dongles

### Toolkit Versions

# Introduction

## About FlexID Dongles

A FlexNet ID dongle is a hardware device which locks FlexNet license rights to the machine to which the dongle is attached. Each FlexNet ID dongle contains a unique identity. This identity is used to provide a hostid. (This hostid type is referred as a *FLEXID*.) The FLEXID can be used to lock license rights to either a server or an end-user machine.

FlexNet dongles are normally used with license rights that are held in license files, and this document assumes that this is the case in all examples.

For the FlexNet dongle to communicate with the computer it is attached to, the appropriate drivers must be installed on the computer. Drivers are specific to a given platform and operating-system version. Therefore, you might need to download and provide updated drivers for existing products when new operating-system versions are released. The latest drivers are packaged with the current release version of the FlexNet Publisher Licensing toolkits and are also available from specific download Flexera Software sites.

You must always install the drivers for the FlexNet ID dongles using the files provided by Flexera Software. Do not install drivers from any other source (for example, from an automatic search and download).

## Purpose of This Guide

This document describes how to install the FlexNet dongle drivers and test their operation:

- [Installing Dongle Drivers on Windows](#)
- [Installing Dongle Drivers on Mac](#)
- [Installing Dongle Drivers on Linux](#)
- [Testing the Dongle Driver Installation](#)


Further information on using FlexNet dongles is provided in the documentation supplied with your Licensing toolkit. Depending on the version of the toolkit you are using, information about FlexNet dongles is provided in the following FlexNet Publisher documents:

- *Programming Reference for License File-based Licensing*
- *C/C++ Function Reference*

## Supported FlexNet ID Dongles



The following table lists the FlexNet ID dongles, the platforms on which they can be used, the hostid keywords, and the name of the driver installation files.

**Table 2-1 • FlexNet ID Dongles: Platform Support**


Operating System	Manufacturer and Device	Hostid Keywords	Driver Installation File
<b>Mac OS X 32-bit and 64-bit</b> (x86 and x64 hardware) <ul style="list-style-type: none"> <li>• 10.5</li> <li>• 10.6</li> <li>• 10.7</li> <li>• 10.8</li> </ul>	SafeNet: <ul style="list-style-type: none"> <li>• HASP 4 M1 and HASP HL Pro USB memory keys</li> <li>• HASP HL Drive</li> </ul>	FLEXID=9	FLEXID_OSX_V6_23.dmg
 <p><b>Note</b> • On a Mac OS X 64-bit machine, only one SafeNet HASP dongle is detected even when multiple dongles are attached to the machine. This is a known limitation of the HASP HL APIs that are used by the FlexNet licensing software.</p>			
<b>Mac OS X 32-bit and 64-bit</b> (x86 and x64 hardware) <ul style="list-style-type: none"> <li>• 10.5</li> <li>• 10.6</li> <li>• 10.7</li> <li>• 10.8</li> </ul>	Wibu Systems AG WibuKey	FLEXID=10	FLEXID10_OSX_6.0.501.dmg



**Table 2-1** • FlexNet ID Dongles: Platform Support

Operating System	Manufacturer and Device	Hostid Keywords	Driver Installation File
<p><b>Microsoft Windows 32-bit and 64-bit</b></p> <p>(x86 and x64 hardware)</p> <ul style="list-style-type: none"> <li>• XP</li> <li>• Server 2003, 2008, 2008 R2, and 2012</li> <li>• Vista</li> <li>• Windows 7 and 8</li> </ul>	<p>SafeNet:</p> <ul style="list-style-type: none"> <li>• HASP 4 M1 and HASP HL Pro USB memory keys</li> <li>• HASP HL Drive</li> </ul>	<p>FLEXID=9</p> <p>PHY_FLEXID=9</p> <p>LMB_FLEXID=9</p>	<p><b>32 bit:</b></p> <p>FLEXID9_Windows_v6_51_i686.zip</p> <p><b>64-bit:</b></p> <p>FLEXID9_Windows_v6_51_x64.zip</p>
 <p><b>Note</b> • Consider the following information about the SafeNet HASP dongles on Windows:</p> <ul style="list-style-type: none"> <li>• FLEXID 9 dongles on all Windows platforms use the SRM driver (version 5.86).</li> <li>• On a Windows 64-bit machine, only one SafeNet HASP dongle is detected even when multiple dongles are attached to the machine. This is a known limitation of the HASP HL APIs that are used by the FlexNet licensing software.</li> <li>• The SafeNet HASP dongle does not support Remote Desktop Connection for applications built with Windows 32-bit toolkits. This is a known limitation of the HASP APIs that are used by the FlexNet licensing software.</li> </ul>			
<p><b>Microsoft Windows 32-bit and 64-bit</b></p> <p>(x86 and x64 hardware)</p> <ul style="list-style-type: none"> <li>• XP</li> <li>• Server 2003, 2008, and 2012</li> <li>• Vista</li> <li>• Windows 7 and 8</li> </ul>	<p>Wibu Systems AG</p> <p>WibuKey</p>	<p>FLEXID=10</p> <p>PHY_FLEXID=10</p> <p>LMB_FLEXID=10</p>	<p><b>32 bit:</b></p> <p>FLEXID10_Windows_v6_00a_i686.zip</p> <p><b>64-bit:</b></p> <p>FLEXID10_Windows_v6_00a_x64.zip</p>
<p><b>RedHat and SUSE Linux 32-bit and 64-bit</b></p> <p>(x86 and x64 hardware)</p> <ul style="list-style-type: none"> <li>• RedHat 5.8 and 6.2</li> <li>• Up to SUSE 12.1</li> </ul>	<p>SafeNet:</p> <ul style="list-style-type: none"> <li>• HASP 4 M1 and HASP HL Pro USB memory keys</li> <li>• HASP HL Drive</li> </ul>	<p>FLEXID=9</p> <p>PHY_FLEXID=9</p> <p>LMB_FLEXID=9</p>	<p>aksusbd-redhat-suse-6.50.rpm</p>
 <p><b>Note</b> • On a Linux 64-bit machine, only one SafeNet HASP dongle is detected even when multiple dongles are attached to the machine. This is a known limitation of the HASP HL APIs that are used by the FlexNet licensing software.</p>			

**Table 2-1** • FlexNet ID Dongles: Platform Support

Operating System	Manufacturer and Device	Hostid Keywords	Driver Installation File
<b>Red Hat and SUSE Linux 32-bit and 64-bit</b> (x86 and x64 hardware) <ul style="list-style-type: none"> <li>• RedHat EL 4.x, 5x, 6.x</li> <li>• SUSE 9.x, 10.x, 11.x</li> </ul>	Wibu Systems AG WibuKey	FLEXID=10 PHY_FLEXID=10 LMB_FLEXID=10	<b>32 bit:</b> WkRt-Lin-6.0.501-1.i386.rpm  <b>64-bit:</b> WkRt-Lin64-6.0.501-1.x86_64.rpm
 <p><b>Note</b> • Up to three WibuKey dongles per machine are supported.</p>			

## Mapping of Previous Installers to Current Installers

Use the following table as a reference for mapping FLEXID dongle installers previous to FlexNet Publisher 11.11.1 to installers available beginning with FlexNet Publisher 11.11.1.

**Table 2-2** • Mapping of Previous FlexNet ID Dongle Installers to Current

Operating System	FLEXID Type	Installer Change	Installer Previous to FlexNet Publisher 11.11.1	Installer With FlexNet Publisher 11.11.1 and Later
<b>Mac OS X 32-bit and 64-bit</b>	FLEXID9	Yes	FLEXID_OSX_V5_11.dmg	FLEXID_OSX_V6_23.dmg
<b>Mac OS X 32-bit and 64-bit</b>	FLEXID10	No	FLEXID10_OSX_6.0.501.dmg	FLEXID10_OSX_6.0.501.dmg
<b>Microsoft Windows 32-bit</b>	FLEXID9	Yes	FLEXID_Dongle_Driver_Installer.exe	FLEXID9_Windows_v6_51_i686.zip
<b>Microsoft Windows 64-bit</b>	FLEXID9	Yes	FLEXID_Dongle_Driver_Installer.exe	FLEXID9_Windows_v6_51_x64.zip
<b>Microsoft Windows 32-bit</b>	FLEXID10	Yes	FLEXID_Dongle_Driver_Installer.exe	FLEXID10_Windows_v6_00a_i686.zip
<b>Microsoft Windows 64-bit</b>	FLEXID10	Yes	FLEXID_Dongle_Driver_Installer.exe	FLEXID10_Windows_v6_00a_x64.zip

**Table 2-2 • Mapping of Previous FlexNet ID Dongle Installers to Current**

<b>Operating System</b>	<b>FLEXID Type</b>	<b>Installer Change</b>	<b>Installer Previous to FlexNet Publisher 11.11.1</b>	<b>Installer With FlexNet Publisher 11.11.1 and Later</b>
<b>RedHat Linux 32-bit</b>	FLEXID9	Yes	aksusbd-redhat-1.8.1-3.i386.rpm	aksusbd-redhat-suse-6.50.rpm
<b>SUSE Linux 32-bit</b>	FLEXID9	Yes	aksusbd-suse-1.8.1-3.i386.rpm	
<b>RedHat Linux 64-bit</b>	FLEXID9	Yes	aksusbd-redhat-1.14-3.i386.rpm	
<b>SUSE Linux 64-bit</b>	FLEXID9	Yes	aksusbd-suse-1.14-3.i386.rpm	
<b>RedHat and SUSE Linux 32-bit</b>	FLEXID10	No	WkRt-Lin-6.0.501-1.i386.rpm	WkRt-Lin-6.0.501-1.i386.rpm
<b>RedHat and SUSE Linux 64-bit</b>	FLEXID10	No	WkRt-Lin64-6.0.501-1.x86_64.rpm	WkRt-Lin64-6.0.501-1.x86_64.rpm

## **Chapter 2: Introduction**

Mapping of Previous Installers to Current Installers

---

# Installing Dongle Drivers on Windows

## Where To Start

If you are installing FlexNet ID dongle drivers for the first time on a machine, use the instructions in [Install or Remove Current Dongle Drivers](#).

If you are replacing older drivers (previous to FlexNet Publisher 11.11.1) with the current versions, best practice is first to remove the older drivers as described in [Remove Pre-11.11.1 Dongle Drivers](#); then install the new drivers as described in [Install or Remove Current Dongle Drivers](#).

If you have installed a current driver and want to remove it, follow the instructions in [Install or Remove Current Dongle Drivers](#).

## Remove Pre-11.11.1 Dongle Drivers

For instructions to remove FlexNet ID dongle drivers installed previous to FlexNet Publisher 11.11.1, select the specific pre-11.11.1 installer used to install the drivers:

- [Uninstall Using FLEXID\\_Dongle\\_Driver\\_Installer.exe](#)
- [Uninstall Using FLEXIDInstaller.exe](#)



---

**Caution** • *If any of the dongle drivers were updated by Windows Update, remove them using only tools provided by the dongle manufacturer. See the dongle manufacturer's Web site for details.*

## Uninstall Using FLEXID\_Dongle\_Driver\_Installer.exe



**Task:** *To remove (uninstall) dongle drivers installed with the FLEXID\_Dongle\_Driver\_Installer.exe*

1. At a command prompt from the directory where the driver installer resides, run the following command:  
`FLEXID_Dongle_Driver_Installer.exe /remove`
2. Select the dongle drivers to uninstall, and click **Next**.



**Note** • You have the option to use the command line to uninstall these drivers. You must do so in silent mode (for example, `FLEXID_Dongle_Driver_Installer.exe /s /remove`).

## Uninstall Using FLEXIDInstaller.exe

Use the following method to remove dongle drivers installed by FLEXIDInstaller.exe.



**Task:** *To remove dongle drivers installed by FLEXIDInstaller.exe*

Access **Add or Remove Programs** (or the appropriate tool) from your Windows Control Panel, select the dongle drivers to remove, and click **Uninstall**.

## Install or Remove Current Dongle Drivers

### Cautions

Do the following:

- Install the driver file before plugging the dongle in to your machine. Plugging in the dongle before installing the driver can cause an automatic search for driver files. The driver files found by an automatic search might not be compatible with FlexNet ID dongle.
- Use the methods described in this section to install the current versions of the dongle drivers. Do not allow Windows Update to install these drivers. Such an update can lead to unpredictable behavior of the dongles with FlexNet Licensing software.
- When using the command line (instead of the user interface) to install or remove a driver, you must use the silent mode.

## Obtain the FLEXID Dongle-Driver Installer



**Task:** *To obtain the FLEXID dongle-driver installer*

1. Locate the .zip file for the appropriate Windows dongle-driver installer within your FlexNet Publisher licensing toolkit; or download the installer from the FlexNet Publisher download site. For a list of available dongle-driver installers, see [Chapter 2, "Introduction."](#)
2. Decompress the file.

## Install or Remove FLEXID9 Drivers

The following procedures install or remove FLEXID9 (SafeNet) 32-bit or 64-bit dongle drivers.



**Important** • FLEXID command-line options are case-sensitive.

### Install FLEXID9 Drivers

Use either procedure to install a 32-bit or a 64-bit FLEXID9 driver. One procedure invokes a user interface for the installation process; the other performs a silent installation via the command line.



**Task:** *To install the driver using the supplied user-interface*

At a command prompt from the directory where the dongle-driver installer resides, enter the following:

```
FLEXID9_Windows_V6_51_cmd_line.exe -i
```



**Task:** *To install the driver silently using the command line*

At a command prompt from the directory where the dongle-driver installer resides, enter the following:

```
FLEXID9_Windows_V6_51_cmd_line.exe -i -nomsg
```

### Remove FLEXID9 Drivers

Use either procedure to remove a 32-bit or a 64-bit FLEXID9 driver. One procedure invokes a user interface for the removal process; the other performs a silent removal via the command line.

## Chapter 3: Installing Dongle Drivers on Windows

### Install or Remove Current Dongle Drivers



---

**Task:** *To remove the driver using the supplied user-interface*

At a command prompt from the directory where the dongle-driver installer resides, enter the following:

```
FLEXID9_Windows_V6_51_cmd_line.exe -r
```



---

**Task:** *To remove the driver silently using the command line*

At a command prompt from the directory where the dongle-driver installer resides, enter the following:

```
FLEXID9_Windows_V6_51_cmd_line.exe -r -nomsg
```

## View Other Options

Use the following command to view additional options for the FLEXID9 driver installation or removal.



---

**Task:** *To view other options for FLEXID9 driver installation or removal*

At a command prompt from the directory where the driver installer resides, enter the following:

```
FLEXID9_Windows_V6_51_cmd_line.exe -?
```

## Install or Remove FLEXID10 Drivers

The following procedures install or remove FLEXID10 (Wibu) 32-bit or 64-bit dongle drivers.



---

**Important** • *FLEXID command-line options are case-sensitive.*

## Install FLEXID10 Drivers

Separate commands are used to install the 32-bit and the 64-bit versions of the FLEXID10 driver. You can invoke a user interface for the installation process or perform a silent installation via the command line.



---

**Task:** *To install the driver using the supplied user-interface*

1. At a command prompt from the directory where the dongle-driver installer resides, enter the appropriate command.

- For a 32-bit driver:

```
SETUP32.exe
```



- For a 64-bit driver:

`SETUP64.exe`

2. Reboot the machine.



**Note** • Failure to reboot once you install the driver can cause problems with the driver working properly.



**Task:** *To install the driver silently using the command line*

1. At a command prompt from the directory where the dongle-driver installer resides, enter the appropriate command.

- For a 32-bit driver:

`SETUP32.exe /S`

- For a 64-bit driver:

`SETUP64.exe /S`

2. Reboot the machine.



**Note** • Failure to reboot once you install the driver can cause problems with the driver working properly.

## Remove FLEXID10 Drivers

Separate commands are used to remove the 32-bit and the 64-bit versions of the FLEXID10 driver. You can invoke a user interface for the removal process or perform a silent removal via the command line.



**Task:** *To remove the driver using the supplied user-interface*

1. Unplug the FLEXID10 dongle from the machine.
2. At a command prompt from the directory where the dongle-driver installer resides, enter the appropriate command.

- For a 32-bit driver:

`SETUP32.exe /R:{00060000-0000-1004-8002-0000C06B5161}`

- For a 64-bit driver:

`SETUP64.exe /R:{00060000-0000-1004-8002-0000C06B5161}`

3. Reboot the machine.

## Chapter 3: Installing Dongle Drivers on Windows

### Install or Remove Current Dongle Drivers



---

**Task:** *To remove the driver silently using the command line*

1. Unplug the FLEXID10 dongle from the machine.
2. At a command prompt from the directory where the dongle-driver installer resides, enter the appropriate command.
  - For a 32-bit driver:  
`SETUP32.exe /RS: {00060000-0000-1004-8002-0000C06B5161}`
  - For a 64-bit driver:  
`SETUP64.exe /RS: {00060000-0000-1004-8002-0000C06B5161}`
3. Reboot the machine.

---

# Installing Dongle Drivers on Mac

This chapter describes how to use the FlexNet dongle driver installers for Mac OS X.

## Install or Remove FLEXID9 Drivers

Use the following procedures to install or remove the driver for the FLEXID9 (SafeNet) dongle.



---

**Important** • *FLEXID command-line options are case-sensitive.*

## Install FLEXID9 Drivers

Use either procedure to install a FLEXID9 driver. One procedure invokes a user interface for the installation process; the other performs a silent installation via the command line.



---

**Note** • *Best practice is to install the driver using the user-interface method.*



---

**Task:** *To install the driver using the supplied user interface*

1. Locate the installer file FLEXID9\_OSX\_V6\_23.dmg within your FlexNet Publisher licensing toolkit; or download the installer from a designated FlexNet Publisher download site (such as [www.Globes.com](http://www.Globes.com)).
2. Double-click the file, and follow the on-screen instructions in the installer to complete the installation.



---

**Task:** *To install the driver silently using the command line*

Run the following commands in the order shown:

```
hdiutil attach FLEXID9_OSX_V6_23.dmg
cd /Volumes/Sentinel Runtime/.Packages
sudo installer -pkg "/Volumes/ Sentinel Runtime/.Packages/Sentinel Runtime.pkg" -target "/"
```



---

**Note** • *This procedure is for reference only; it might not work properly on some machines.*

## Remove FLEXID9 Drivers

Use either procedure to remove the FLEXID9 driver. One procedure invokes a user interface for the removal process; the other performs a silent removal via the command line.



---

**Note** • *Best practice is to remove the driver using the user-interface method.*

---

**Task:** *To remove the driver using the supplied user interface*

Double-click the installer file FLEXID9\_OSX\_V6\_23.dmg.



---

**Task:** *To remove the driver silently using the command line*

1. Enter the following command to list all files installed for the dongle driver:

```
lsbom -fls /Volumes/Sentinel Runtime/.Packages/Sentinel Runtime.pkg/Contents/Archive.bom
```

2. Perform *one* of the following:

- Manually delete each of the files that are listed after performing step 1.
- Run this command:

```
lsbom -fls /Volumes/Sentinel Runtime/.Packages/Sentinel Runtime.pkg/Contents/Archive.bom |
(cd /; sudo xargs rm)
```



---

**Note** • *This command is for reference only. It might not work properly on some machines.*

# Install or Remove the FLEXID10 Driver

Use the following procedures to install or remove the driver for the FLEXID10 (WibuKey) dongle.



---

**Important** • FLEXID command-line options are case-sensitive.

## Install FLEXID10 Drivers

Use either procedure to install a FLEXID10 driver. One procedure invokes a user interface for the installation process; the other performs a silent installation via the command line.



---

**Note** • Best practice is to install the driver using the user-interface method.



---

**Task:** *To install the driver using the supplied user interface*

1. Locate the installer file FLEXID10\_OSX\_6.0.501.dmg within your FlexNet Publisher licensing toolkit; or download the installer from a designated FlexNet Publisher download site (such as [www.Globes.com](http://www.Globes.com)).
2. Double-click the file, and follow the on-screen instructions in the installer to complete the installation.



---

**Task:** *To install the driver silently using the command line*

Run the following commands in the order shown:

```
hdiutil attach FLEXID10_OSX_6.0.501.dmg
cd /Volumes/WibuKey
sudo installer -pkg WkInstall.mpkg -target "/"
```



---

**Note** • This procedure is for reference only; it might not work properly on some machines.

## Remove FLEXID10 Drivers

Use either procedure to remove a FLEXID10 driver. One procedure invokes a user interface for the removal process; the other performs a silent removal via the command line.



---

**Note** • Best practice is to remove the driver using the user-interface method.

## Chapter 4: Installing Dongle Drivers on Mac

### Install or Remove the FLEXID10 Driver



---

**Task:** *To remove the driver using the supplied user interface*

Double-click the installer file FLEXID10\_OSX\_6.0.501.dmg.



---

**Task:** *To remove the driver silently using the command line*

1. Enter the following commands to list all files installed for the dongle driver:

```
lsbom -fls /Volumes/ WibuKey/packages/AxProtector.pkg/Contents/Archive.bom
lsbom -fls /Volumes/ WibuKey/packages/WkCFM9.pkg/Contents/Archive.bom
lsbom -fls /Volumes/ WibuKey/packages/WkDriver.pkg/Contents/Archive.bom
lsbom -fls /Volumes/ WibuKey/packages/WkServer.pkg/Contents/Archive.bom
```

2. Perform *one* of the following:

- Manually delete each of the files that are listed after performing step 1.
- Run these commands in the order shown:

```
lsbom -fls /Volumes/ WibuKey/packages/AxProtector.pkg/Contents/Archive.bom | (cd /; sudo xargs rm)
lsbom -fls /Volumes/ WibuKey/packages/WkCFM9.pkg/Contents/Archive.bom | (cd /; sudo xargs rm)
lsbom -fls /Volumes/ WibuKey/packages/WkDriver.pkg/Contents/Archive.bom | (cd /; sudo xargs rm)
lsbom -fls /Volumes/ WibuKey/packages/WkServer.pkg/Contents/Archive.bom | (cd /; sudo xargs rm)
```



---

**Note** • *This set of commands is for reference only. The commands might not work properly on some machines.*

# Installing Dongle Drivers on Linux

This chapter describes how to use the FlexNet dongle driver installers for Linux.

## Install or Remove FLEXID9 Drivers

The following procedures describe how to install or remove FLEXID9 (SafeNet) 32-bit or 64-bit dongle drivers. Before beginning the installation process, however, you must do the following:

- Ensure that you are logged on with superuser (root) privileges.
- Remove any older versions of the dongle driver. For details, see the next section.



**Important** • *FLEXID command-line options are case-sensitive.*

## Remove Older Dongle-Driver Versions

Before installing the latest version of a FlexNet ID dongle driver, remove any dongle driver that was available with a pre-11.11.1 version of FlexNet Publisher.



**Task:** *To remove an older version of the FLEXID dongle drive you are installing*

At a command prompt from the directory where the dongle-driver installer resides, enter the appropriate command:

- For a RedHat driver:  

```
rpm -e aksusbd-redhat
```

## Chapter 5: Installing Dongle Drivers on Linux

### Install or Remove FLEXID10 Drivers

- For a SUSE driver:

```
rpm -e aksusbd-suse
```

## Install FLEXID9 Drivers

Use the following procedure to install the latest driver for a FLEXID9 dongle on Linux. The same command is used to install the driver on Linux RedHat or SUSE (32-bit or 64-bit).



---

**Task:** *To install the FLEXID9 driver*

1. Locate the installer file `aksusbd-redhat-suse-6.50.rpm` within your FlexNet Publisher licensing toolkit; or download the installer from a designated FlexNet Publisher download site (such as [www.Globes.com](http://www.Globes.com)).
2. At a command prompt from the directory where the dongle-driver installer resides, enter the following:

```
rpm -i aksusbd-redhat-suse-6.50.rpm
```

## Remove FLEXID9 Drivers

Use the following procedure to remove the driver for a FLEXID9 (SafeNet) dongle on Linux.



---

**Task:** *To remove the FLEXID9 driver*

At a command prompt from the directory where the dongle-driver installer resides, enter the following:

```
rpm -e aksusbd-2.0-1
```

## Install or Remove FLEXID10 Drivers

The following procedures describe how to install or remove FLEXID10 (Wibu) 32-bit or 64-bit dongle drivers.



---

**Important** • *FLEXID command-line options are case-sensitive.*

## Install FLEXID10 Drivers

Use the following procedure to install the driver for a FLEXID10 (Wibu) dongle on Linux.





---

**Task:** *To install the FLEXID10 driver*

1. Locate the appropriate installer file within your FlexNet Publisher licensing toolkit; or download the installer from a designated FlexNet Publisher download site (such as [www.Globes.com](http://www.Globes.com)):
  - For a 32-bit driver:  
`WkRt-Lin-6.0.501-1.i386.rpm`
  - For a 64-bit driver:  
`WkRt-Lin64-6.0.501-1.x86_64.rpm`
2. At a command prompt from the directory where the dongle-driver installer resides, enter the appropriate command:
  - For the 32-bit driver:  
`rpm -i WkRt-Lin-6.0.501-1.i386.rpm`
  - For the 64-bit driver:  
`rpm -i WkRt-Lin64-6.0.501-1.x86_64.rpm`



---

**Note** • The Wibu installers might produce warnings on RedHat EL 4.7 x64, and SUSE9 and SUSE10 x86 platforms, depending on what operating system patches are installed. Users can ignore these warnings; the dongles operate correctly.

## Remove FLEXID10 Drivers

Use the following procedure to remove the driver for a FLEXID10 (Wibu) dongle on Linux.



---

**Task:** *To remove the FLEXID10 driver*

At a command prompt from the directory where the dongle-driver installer resides, enter the following command:

```
rpm -e WkRt-Lin-6.0.501-1
```

## Chapter 5: Installing Dongle Drivers on Linux

Install or Remove FLEXID10 Drivers

# Testing the Dongle Driver Installation

The following sections describe how to test that the dongle driver has been installed correctly:

1. [Obtaining the Dongle Identity \(FLEXID\)](#)—Uses the simplest method involving the dongle and `lmutil`, `lmadmin` (on 32-bit platforms), or `LMTTOOLS` required.
2. [Issuing a License That Uses a FlexNet ID Dongle](#)—Requires installation of a licensed product.

## Obtaining the Dongle Identity (FLEXID)

To perform this test you require:

- A dongle
- `lmutil` utility, `lmhostid`, `lmadmin`, or a copy of `LMTTOOLS` (only available on Windows)

This test attempts to obtain the dongle identity from the dongle. The dongle driver is used to access the dongle and request its identity and thus this tests that the dongle driver has been correctly installed.



---

**Task:** *To obtain dongle FLEXID*

1. On Windows systems, if you have just installed the dongle driver, ensure that you restart your system to complete the installation of the driver software. (Mac and Linux systems do not require a restart.)
2. Connect the dongle to your machine.
3. Install the `lmutil` utility, `lmadmin`, `lmhostid`, or `LMTTOOLS`.
4. Follow the steps indicated by the utility you are using:
  - If using `lmadmin`:
    1. Run `lmadmin`.
    2. In a web browser, open the `lmadmin` user interface. (Default location is <http://localhost:8090>.)

## Chapter 6: Testing the Dongle Driver Installation

### Issuing a License That Uses a FlexNet ID Dongle

3. Log in by entering your username and password. (Default username/password is `admin/admin`.)
  4. Click **Administration**.
  5. Click **System Information**.
  6. Verify that a valid **FLEXID** is displayed (for example `9-6b3366b2`).
- If using `1mhostid`:
    1. Issue the following command from a command prompt:

```
1mhostid -flexid
```
    2. Verify that a valid FLEXID is returned. Example output might be the following:

```
1mhostid - Copyright <C> 1989-2013 Flexera Software LLC. All Rights Reserved.  
The FlexNet host ID of this machine is "FLEXID=9-6b3366b2"
```
  - If using LMTTOOLS (only available on Windows):
    1. Double-click LMTTOOLS.exe.
    2. Click **System Settings**.
    3. Verify that a valid **FLEXID** is displayed (for example `9-6b3366b2`).



---

**Note** • LMTTOOLS does not display the Wibu dongle FLEXID.

# Issuing a License That Uses a FlexNet ID Dongle

These instructions describe how to use the example FlexEnabled application (`1mf1ex`) and other example files provided in the Licensing toolkit to issue a license that uses a FlexNet ID Dongle. Instructions are provided to test the use of the dongle:

- [Issuing a License on an End-User Machine](#)
- [Issuing a License on a License Server](#)

## Building the Licensing Toolkit With Dongle Support

The following instructions assume that your Licensing toolkit is built with dongle support. For example, the toolkit build command for license-file-based licensing on a Windows machine would look something like this:

```
nmake -f makefile DONGLE=1
```

See the *Development Environment Guide* for more information about toolkit build commands and options.

## Issuing a License on an End-User Machine

These instructions describe how to create a license that uses a FLEXID and use the example FlexEnabled application `1mf1ex` to check out the license.



**Task:** *To issue and use a license that uses a FlexNet ID dongle on an end-user machine*

1. Obtain the dongle identity as described in [Obtaining the Dongle Identity \(FLEXID\)](#).
2. Create a license file that contains a license that uses the FLEXID:
  - Within your FlexNet Publisher toolkit installation directory, open the example license file `<platform_dir>\uncounted.lic` with an editor.
  - Change the feature from **f2** to **f4**.
  - Change `HOSTID=ANY` to the dongle identity obtained in step 1, for example:  
`HOSTID=FLEXID=9-6b3366b2`
  - Save the file as `uncounted_FLEXID.lic`.
  - Sign the license file using `1mccrypt`. Type the following at a command prompt:  
`1mccrypt uncounted_FLEXID.lic`
3. Check out the license:
  - Run `1mf1ex`.
  - Type **f4** and press **Enter**.
  - `1mf1ex` reports that the license has been checked out.

## Issuing a License on a License Server

These instructions describe how to create a license for a license server that uses a FLEXID. The license is for use by the example vendor daemon, `demo`. The example FlexEnabled application `1mf1ex` is used to check out the license.



**Note** • *The following procedure uses Windows-based command syntax. For UNIX platforms, apply the appropriate syntax.*

## Chapter 6: Testing the Dongle Driver Installation

### Issuing a License That Uses a FlexNet ID Dongle



---

**Task:** *To issue and use a license that uses a FlexNet ID dongle on a license server*

1. Obtain the dongle identity as described in [Obtaining the Dongle Identity \(FLEXID\)](#).
2. Create a license file that contains a license that uses the FLEXID:
  - a. Within your FlexNet Publisher toolkit installation directory, open the example license file `<platform_dir>\counted.lic` in a text editor.
  - b. Add the Server line with HOSTID set to the FLEXID, as in the example:  

```
Server this_host FLEXID=9-6b3366b2
```
  - c. Save the file as `counted_FLEXID.lic`.
  - d. Sign the license file using `lmcrypt`. Type the following at a command prompt:  

```
lmcrypt counted_FLEXID.lic
```
3. Move the license file to `<platform_dir>\lmadmin\demo`.
4. For purposes of this test, copy the vendor daemon `demo.exe` and its associated library `demo_libFNP.dll` from the `<platform>` directory to the `<platform>\lmadmin\demo` directory.



---

**Note** • On UNIX platforms, copy the vendor daemon `demo` and its associated library `demo_libFNP.so` from the `<platform>` directory to the `<platform>/lmadmin/demo` directory. On AIX, copy `demo` and `demo_server_libFNP_notr.so`.

5. Start the license server:
  - a. Import the license file by entering the following at a command prompt from `<platform_dir>\lmadmin`:  

```
lmadmin -import demo\counted_FLEXID.lic -force
```
  - b. Start the license server:  

```
lmadmin -adminOnly no -allowRemoteStopServer yes
```
6. Return to the `<platform_dir>`, and run `lmflex`.
7. Type **f1** and press **Enter**.  
`lmflex` reports that the license has been checked out.

---

# Index

## D

- dongle identity [27](#)
- driver installation on Linux
  - FLEXID10 [24](#)
  - FLEXID9 [23](#)
- driver installation on Mac
  - FLEXID10 [20](#)
  - FLEXID9 [19](#)
- driver installation on Windows
  - FLEXID10 [16](#)
  - FLEXID9 [15](#)

## F

- FLEXID [7](#), [27](#)
- FLEXID\_Dongle\_Drvier\_Installer.exe [14](#)
- FLEXID10\_OSX\_V6.0.501.dmg [21](#)
- FLEXID9\_OSX\_V6\_23.dmg [19](#)
- FLEXID9\_Windows\_V6\_51\_cmd\_line.exe [15](#)
- FLEXIDInstaller.exe [14](#)
- FlexNet ID dongle
  - definition [7](#)
  - hostid [7](#)
  - platform support [8](#)

## H

- hostid [7](#), [29](#)

## L

- license file [29](#)

- Imcrypt [29](#), [30](#)
- Imhostid [27](#)
- LMTOOLS [27](#)

## O

- operating systems [8](#)

## P

- platforms [8](#)

## S

- SETUP32.exe [16](#)
- SETUP64.exe [16](#)

