



FlexNet Device Manager for Avid

Administration Guide

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Installing and Configuring the FlexNet Device Manager for Avid

This document is intended for the Administrator at your facility. The FlexNet Device Manager for Avid is used for large facilities to license, activate and manage concurrent volume licenses for Avid applications which require software activation. Using the FlexNet Device Manager for Avid application on a dedicated Windows server, you can license multiple applications or options.

In addition to the FlexNet Device Manager for Avid, you must activate each license with the Avid License Control tool. When you activate your Avid licenses using FlexNet Device Manager for Avid, you can activate all or some of the licenses that you have purchased.

Each volume license needs to be licensed separately. However, multiple volume licenses can be hosted on a single server. If you purchased licenses for more than one Avid product — for example, you have licenses for Avid Media Composer and Avid NewsCutter — you activate licenses for these products separately. You cannot activate volume licensed products with non-volume licensed products on the same client device. If you purchase a volume license for ten Media Composers, you will only be able to add PhraseFind to any of those ten Media Composers if it was a volume licensed purchase. If you purchase a single non-volume PhraseFind, you will only be able to use PhraseFind on a non-volume Media Composer.

You need to install the FlexNet Device Manager for Avid application on a Windows system. Supported Windows operating systems include: Windows Server 2008, Windows 7 (32-bit and 64-bit), Windows Server 2003 R2, and Windows XP. Your Avid editing application, PhraseFind or ScriptSync can be installed on a Windows or Macintosh system.



Some of the screenshots and examples displayed in this guide use Avid Media Composer as the client. You may be activating a different application or option.

Before you Begin

Before you install and configure the FlexNet Device Manager for Avid to manage your volume licenses, you should make sure that you configure your network to allow client systems to access the Windows server where you install the FlexNet Device Manager for Avid application.



You must have ports 3333 and 8888 opened in your Firewall settings.

The FlexNet Device Manager for Avid application must be installed on a Windows system. However, you can activate the licenses from either a Windows or Macintosh client system.

After you purchase a volume license from Avid, you will be provided with an Entitlement Certificate which includes a unique System ID and Activation ID.



The FlexNet Device Manager for Avid application installs on a server that requires an Internet connection to complete the activation procedure.

Installing the FlexNet Device Manager for Avid

The FlexNet Device Manager for Avid manages the concurrent use licenses for Avid applications and some options. To use the FlexNet Device Manager, you must install the application on a Windows system server to license and manage your Avid licenses. The server must be viewable by all network clients that will run the software.



For server access, port 3333 and port 8888 must be open on your Windows server. For more information, see your Firewall settings in your Windows documentation.

The following Windows operating systems are supported for the FlexNet Device Manager:

- Windows Server 2008
- Windows 7 (32-bit and 64-bit)
- Windows Server 2003 R2
- Windows XP

To install the FlexNet Device Manager for Avid application:

1. Quit all active applications.
2. Navigate to *EditingApplicationName*\Installers\VolumeLicenseServer in your editing application folder and double-click FlexNetDeviceManagerSetup.exe.

The installation program starts.

3. Follow the prompts to finish the installation.
4. Click Exit.

Setting Up the FlexNet Device Manager for Avid

After you install the license application on your server, use the FlexNet Device Manager for Avid application to configure the server and activate your Avid software licenses.

The FlexNet Device Manager for Avid has a browser based administration user interface.

The Device Manager supports the following browsers:

- Microsoft Internet Explorer 7.x, 8.x
- Mozilla Firefox 3.x

The ID's you will need for setup and activation:

- Activation ID

You receive an Activation ID if you purchased the Avid volume license application. The Activation ID is located on the Entitlement Certificate.

- System ID

Located on the Entitlement Certificate

- Server Host ID

Your Server Host ID is located on the Properties and Status page in the FlexNet Device Manager application. Go to <http://your server name:8888/FneServer/> and click Properties and Status, and write down the Server Host ID.

If you are performing a first time license installation, follow the procedures in [“FlexNet Device Manager Setup for Initial Licenses” on page 5](#). If you are performing a license upgrade, follow the procedures in [“Upgrading Licenses in FlexNet Device Manager” on page 7](#).

FlexNet Device Manager Setup for Initial Licenses

Perform the following if you are setting up the FlexNet Device Manager for an **initial** license.

To set up the FlexNet Device Manager for Avid (Initial License setup):

1. From any system, go to <http://www.avid.com/license>.

You will need your System ID, Activation ID and Server Host ID. To obtain these IDs, see [“The ID's you will need for setup and activation:” on page 5](#).

The Avid Software License Activation Web page opens.

2. In the Software License Activation Web page, enter your Activation ID and if you would like to have your Activation file sent to you, enter your e-mail address.

To locate the Activation ID, see “The ID’s you will need for setup and activation:” on page 5.

3. Enter your Server Host ID in the Device ID field and your System ID.

To locate the Server Host ID and the System ID, see “The ID’s you will need for setup and activation:” on page 5.

The screenshot shows the 'FNE Server Properties and Status' window. On the left, there is a navigation pane with 'FNE Server' and 'Device Manager' sections. The 'FNE Server' section includes links to 'Devices', 'Reservations', 'Feature Usage', 'Offline Server Updates', 'Properties and Status' (which is selected), and 'Server Logs'. The 'Device Manager' section includes links to 'About' and 'Settings'. The main area has two tabs: 'Properties' and 'Status'. The 'Properties' tab is active, showing a table with 'Property' and 'Value' columns. The 'Server host ID' property is highlighted with a red circle, with a value of '0050568920FB (ETHERNET)'. Below this, there are several other properties: 'Listen TCP/IP address(es)' with a value of '0::0:0:0:0:0', 'Listen port' with a value of '3333', 'FNO server name' with a value of 'localhost', 'FNO port' with a value of '8080', 'FNO server type' with a dropdown menu set to 'Custom back-office server', 'Refresh interval' with a value of '600', and 'XML access permission' with a dropdown menu set to 'Remote'.

4. Click Activate.

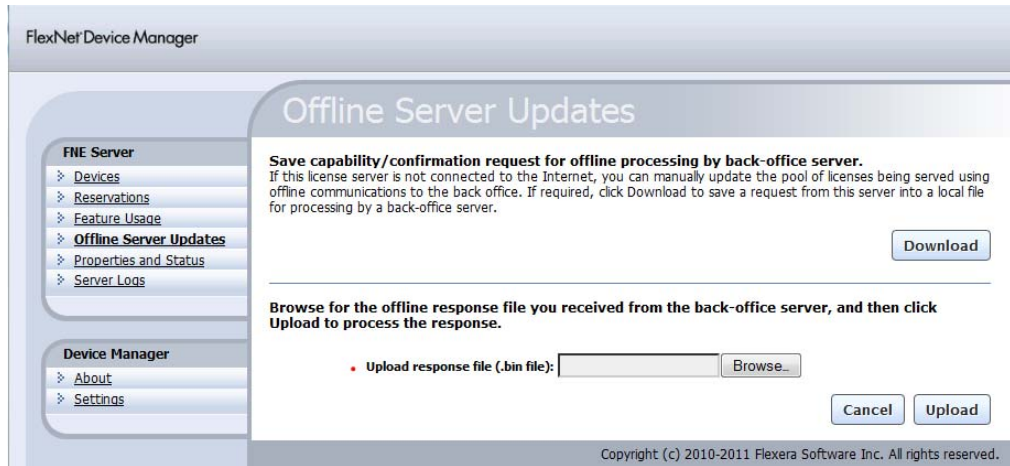
The Avid licensing system creates a license.bin. This file contains license information needed to activate your volume license server.

If you entered an e-mail address, the license.bin file will be sent to you as an attachment. You can also download the license.bin file directly from the site.

5. Click Download to save the license.bin file to your system.
6. Locate the license.bin file and move the license.bin file onto your Server system.
7. From your Server system, go to <http://your server name:8888/FneServer/> (case sensitive).

The FlexNet Device Manager for Avid opens.

8. Under the FNE Server options, click Offline Server Updates.



9. Click the Browse button and locate the license.bin file (Upload response file) that you copied onto your Server system, then click Open.
10. Click Upload.

This sets up and activates your volume license server. You can now activate each machine where you have installed the Avid application or options.



You can verify a successful activation by viewing the Feature Usage page in the FlexNet Device Manager. For more information, see “Feature Usage View in FlexNet Device Manager” on page 18.

To activate your Avid software application or options, see “Activating Each Client” on page 9.

Upgrading Licenses in FlexNet Device Manager

Perform the following if you are upgrading the licenses on your FlexNet Device manager.



Not all clients in your environment need to be updated. For example, if you have a number of Media Composer v6.0 systems in your environment, you can leave some at version 6.0 and upgrade others to v6.5. They do not all have to be upgraded at the same time.

To set up the FlexNet Device Manager for Avid (For Upgrade Licenses)

1. From any system, go to <http://www.avid.com/upgrade>.

The Upgrades page opens.

You will need your System ID, Activation ID and Server Host ID. To obtain these IDs, see “The ID’s you will need for setup and activation:” on page 5.

2. In the Academic Volume License Avid Advantage Plan Customers section, select Click here to claim you upgrade license.

The Volume License Server Upgrades window opens

3. Enter your Activation ID and your System ID. (These were on your initial Entitlement Certificate.)
4. (optional) Enter your email address.
5. Click Submit to ensure you are eligible for the upgrade.
6. At the bottom of the page, select Click here to upgrade.

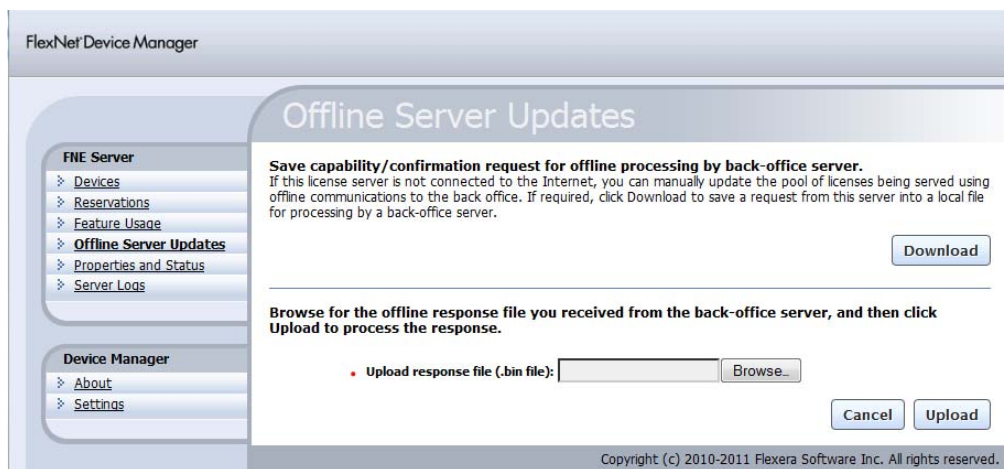
The Avid licensing system creates a license.bin. This file contains license information needed to activate your volume license server.

If you entered an e-mail address, the license.bin file will be sent to you as an attachment. You can also download the license.bin file directly from the site.

7. Click Download to save the license.bin file to your system.
8. Locate the license.bin file and move the license.bin file onto your Server system.
9. From your Server system, go to <http://your server name:8888/FneServer/> (case sensitive).

The FlexNet Device Manager for Avid opens.

10. Under the FNE Server options, click Offline Server Updates.



11. Click the Browse button and locate the license.bin file (Upload response file) that you copied onto your Server system, then click Open.
12. Click Upload.

This sets up and activates your volume license server. You can now activate each machine where you have installed the Avid application or options.



You can verify a successful activation by viewing the Feature Usage page in the FlexNet Device Manager. For more information, see “Feature Usage View in FlexNet Device Manager” on page 18.

To activate your Avid software application or options, see “Activating Each Client” on page 9.

Activating Each Client

Use the Avid License Control tool to activate the licenses for each Avid software application and options. Repeat these steps for each client or option you are activating. The steps are slightly different when activating the Avid software application or options, follow the steps that apply.

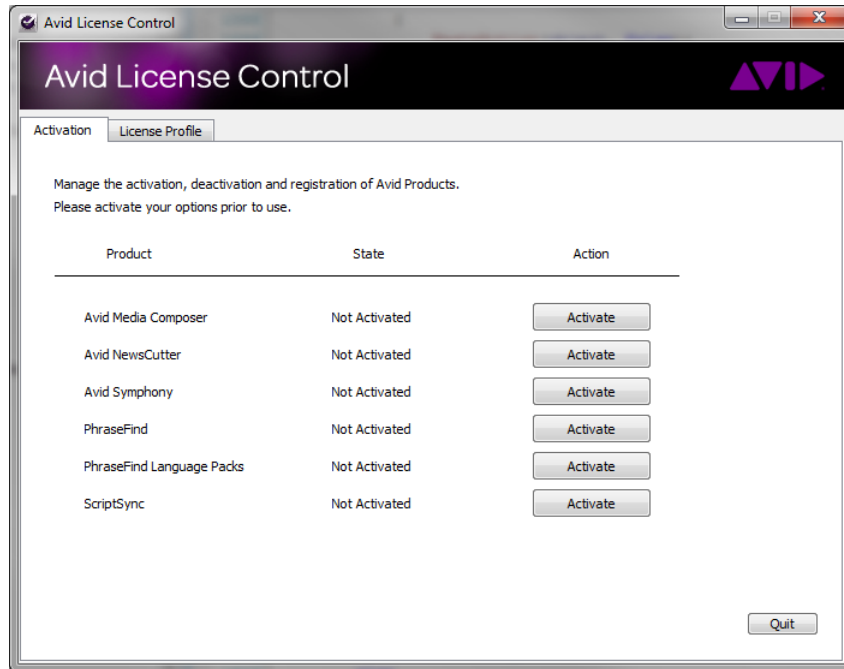
To activate each Avid software application:

1. To activate an Avid software application, install the application on each machine.
The Welcome window opens.



2. Click “I want to activate my software using the Internet, another computer, or a volume license server” under the Electronic Activation section.

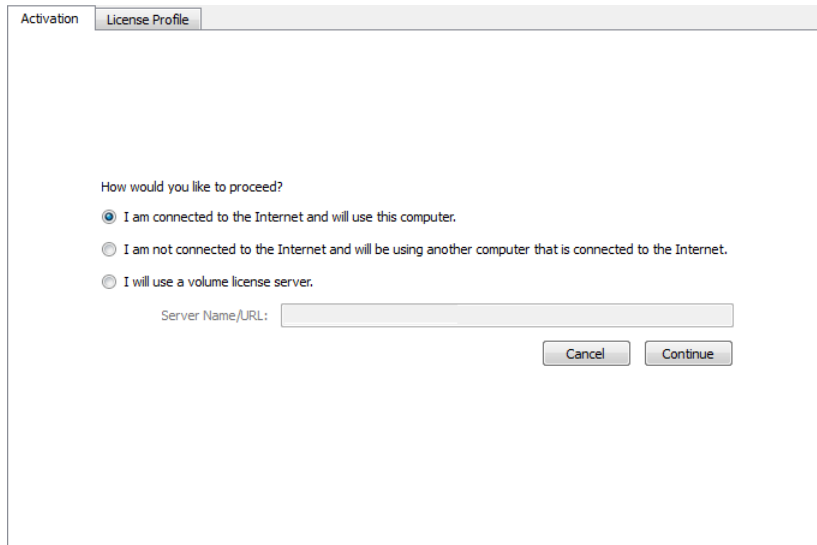
The Avid License Control tool opens.



3. Click Activate next to the Avid application.
4. Click Volume License Server.

5. Enter your Volume License Server name or URL, then click Continue.

To obtain your Volume License Server name on your server system, go to Control Panel > System and Security > System. The Computer name is the Volume License Server name.



Your Avid application or option is activated and you can begin using the software.

6. To confirm this activation, you can go to the FlexNet Device Manager, and click the Devices tab.

The system displays the Device ID of each activated client.

To activate each Avid option:

1. If your option is not installed with your Avid software application, install the option.
For some Avid options, you can also activate them from within the application. See the instructions that came with your option
2. Go to the following location:
(Windows) Start/AllPrograms/Avid/Utilities/License Control
(Macintosh) Applications/Utilities/Avid Utilities/License Control
The Avid License Control tool opens.
3. Click Activate next to the option.
4. Click Volume License Server.

5. Enter your Volume License Server name or URL, then click Continue.

To obtain your Volume License Server name on your server system, go to Control Panel > System and Security > System. The Computer name is the Volume License Server name.

Your Avid option is activated and you can begin using the option

6. To confirm this activation, you can go to the FlexNet Device Manager, and click the Devices tab.

The system displays the Host ID of each activated option.

Deactivating the Avid Application and Options

You can deactivate one or more Avid licenses using the Avid License Control tool. This increases the number of licenses available on the server.

You must have access to the licensing server to deactivate your software. Deactivation deactivates your license, but also returns it to the license pool maintained by the Volume license server.



You must have an Internet Connection and have access to the FlexNet Device Manager server to deactivate the software and its options.

To deactivate your Avid application and options:

1. Open the Avid License Control tool, go to the following location:
(Windows) Start/All Programs/Avid/Utilities/License Control
(Macintosh) Applications/Utilities/Avid Utilities/License Control

The Avid License Control tool opens.

2. Next to the Avid application or the option, click Deactivate.
3. Click Yes or No to confirm the deactivation.

You successfully deactivate the Avid application or option and the button changes to Activate.

Getting a Replacement License

If you have a computer in your environment that stopped functioning before you deactivated the license, it is possible to get a replacement license. You must first gather system information and then contact Customer Support to receive the replacement license.

To gather the system information:

1. Access the FlexNet Device Manager page: <http://your server name:8888/FneServer/> (case sensitive).
2. Click the Feature Usage tab.
3. Note the following: the Feature, the Version, and the Count of the missing entitlement. For example, (Feature - ENT_Media_Composer) (Version - 6.0) (Count - 20)
4. Click the Properties and Status tab.
5. Note the Server Host ID Value.

6. Contact Avid Customer Success and report the following information:

- a. Your e-mail address
- b. Server Host ID value
- c. Number of replacement licenses needed
- d. Feature
- e. Version
- f. Count

Avid Customer Success will send you an e-mail that provides you with a new Activation ID and System ID. Follow the procedures in [“Activating Each Client” on page 9](#) using these new IDs.



It might take up to 24 hours to receive the new IDs.

Using the Different Views in the FlexNet Device Manager for Avid

The following sections are excerpts from Flexera™ Software Inc.

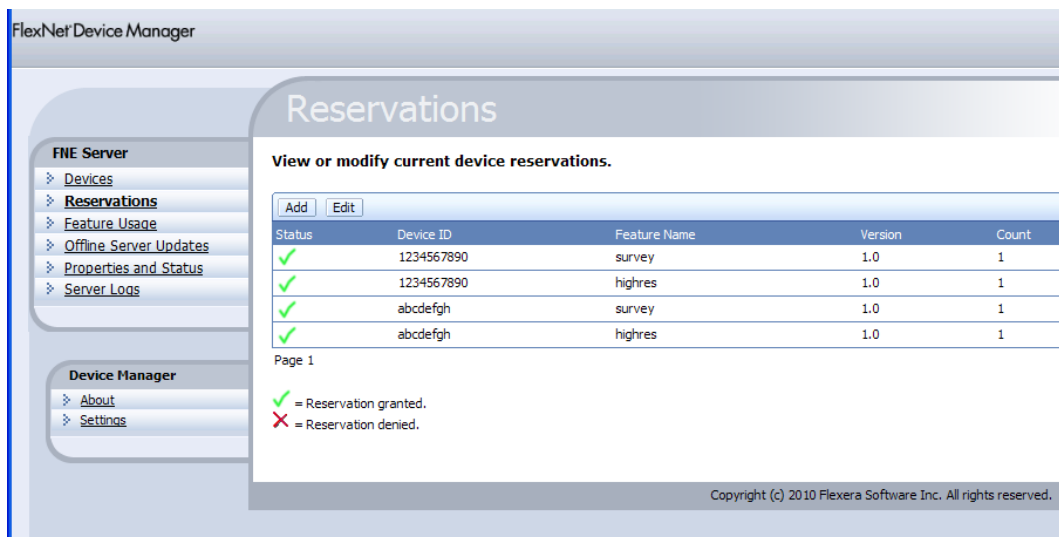
These are optional features you can use to manage your volume license:

- Reserving new entries and modifying entries on your server
- Viewing information on reserved devices
- Viewing details regarding every feature in the counted pool including overage information
- Upload Response views to enable you to update the served license pool using offline operations
- Display the Properties and Status view with the current settings used by the server application
- Display log information about the server
- Display Device Manager information and settings

Reservations View in FlexNet Device Manager

The FlexNet Device Manager software allows the administrator to set activation reservations for specific users or devices. Using a reservations list, the administrator can define a specified quantity of a feature or features in a pool to be available to a specific device. In essence you are allocating an activation from the license pool and reserving it for a device with a specific host id.

The Reservations View enables viewing and modifying entries in your server's reservation list.



FlexNet Device Manager

Reservations

View or modify current device reservations.

Status	Device ID	Feature Name	Version	Count
✓	1234567890	survey	1.0	1
✓	1234567890	highres	1.0	1
✓	abcdefgh	survey	1.0	1
✓	abcdefgh	highres	1.0	1

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✓ = Reservation granted.
✗ = Reservation denied.

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The Reservations view displays the contents of the current reservation list. The notation in the Status column indicates whether license rights exist to fulfill the reservation. The green check mark indicates that a reservation can be satisfied, and the red cross indicates a reservation that cannot be satisfied.

To add a reservation:

1. Click Add to add a single reservation to the reservation list.

The Add Reservation page opens. If a reservation list does not yet exist, it will be created in the server's configured XML cache location as a file named reservations.xml.

Add Reservation

• **Device ID:** 1234567890

• **Feature Name:** highres

• **Version:** 1.0

• **Count:** 1

• = Required field.

Cancel Save

2. Enter the required fields.

The Device ID refers to the client needing a reserved license. You can locate the Feature Name and Version in the Devices View (see [“Devices View in FlexNet Device Manager”](#) on [page 17](#)).

3. Click Save to add the reservation to the reservation list.

Click Cancel to reset the current entry values without saving.

4. Click Edit in the Reservations view to modify the reserved count of a particular device–feature combination in the reservations list.

Changing a feature's count to 0 (zero) removes the reservation entry from reservations.xml and from the Reservations view.

5. When finished editing, click Submit to finalize the changes and apply them to the server system.

Devices View in FlexNet Device Manager

The Devices view displays the devices recognized by the server application from having fulfilled licenses from the counted pool or from having reservations defined. The name displayed for a device in the Device Alias column is set in the device code using FlxPublisherSetDeviceName.

FlexNet Device Manager

Devices

Search (case-sensitive): Search by: Device ID

Devices with features consumed or reserved. Click a device ID for further details.

Device ID	Device Alias	Device Type	Consumed Features	Reservations
5330626109909598325924985	AvidProduct		ENT_MEDIA_COMPOSER (1)	

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To use the Device View:

1. Click a Device ID in the Device ID column.

The device's details display, including information about its consumed features and reserved features.

2. Use the Search field to search for a device by its hostid.
3. Click the Device ID header to sort the devices table.

Device Details

Device ID: 1234567890

Device Alias: techteam-surveyor

Consumed Features

Feature Name	Version	Used	Expiry
highres	1.0	1	12/21/2010 11:59:59 PM
survey	1.0	1	12/21/2010 11:59:59 PM

Reserved Features

Feature Name	Version	Total	Used
highres	1.0	1	1
survey	1.0	1	1


Close

Feature Usage View in FlexNet Device Manager

The Feature Usage view displays details regarding every feature in the counted pool served by the server application. The Search field enables searching by feature name or version, and features can be sorted by name, version, or count by clicking the column header.

FlexNet Device Manager

Feature Usage

Search (case-sensitive): Search by: Feature  

Features **Overage**

Features served to or reserved for devices. Click a feature name for usage details.

Feature	Version	Count	Available	Expiry
ENT_MEDIA_COMPOSER	6.0	3	2	permanent
ENT_MEDIA_COMPOSER	6.0	5	5	permanent

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Clicking a feature name displays detailed information about the devices currently consuming features from the counted pool and those reserving a given feature.

Properties and Status View in FlexNet Device Manager

The Properties and Status view displays the current settings used by the server application. With the exception of settings related to security and server policy—borrow interval, renew interval, response lifetime, failover maintenance interval, whether server synchronization to FNO is enabled—settings can be edited in this view. Any changes made in this view take effect when you click Save at the bottom of the page. Properties that additionally require the server—the launcher executable—to be restarted before taking effect are denoted with a restart icon.

FNE Server Properties and Status

Properties | **Status**

Property	Value
Server host ID	0050568920FB (ETHERNET)

General properties

Listen TCP/IP address(es): 0::0;0.0.0.0

Listen port: 3333

FNO server name: localhost

FNO port: 8080

FNO server type: Custom back-office server

Refresh interval: 600

XML access permission: Remote

The properties exposed on this page include:

- **Server host ID:** the server application's hostid value used to fulfill capability requests against a back-office server. If the server has multiple hostid values, the list contains the available hardware Ethernet addresses and dongle IDs; select the value registered with the back-office server.
- **General properties:** this category contains settings such as the port number the server application uses to listen to requests from devices (by default 3333); the back-office server's hostname or IP address, port number, and type; and how frequently the server application refreshes its license rights. Also included in this section is the option to select Remote or Local for the XML access permission.



If you modify the Listen Port setting here, you must also modify the FNE Server Listen Port setting in the User Interface Configuration view.

- FNO poll properties: indicate whether and how often the server application contacts the back-office server (such as FlexNet Operations), and how often to retry communications after a failed attempt.
- Synchronization properties: exposes different types of server synchronization properties.
- Failover properties: information about the main and backup servers, if using server failover. This section can be hidden using the Device Manager Settings view.
- Security properties: read-only information about the security-policy settings borrow interval, borrow granularity, renew interval, and response lifetime.
- Error log properties: external destination (if any) and log levels to include in the server application's FNE error log. Selecting "File" as the log destination results in additional prompts for log rotation policy settings. Note that the error log location is defined in the value of the error-log/log-directory element in properties.xml, and not exposed in this view.
- Access log properties: external destination (if any) for the Device Manager's HTML access log. Selecting "File" as the log destination results in additional prompts for log rotation policy settings.

The server application's configuration settings are stored in the server's cache file properties.xml. In demo mode, this file is expected to be in the same directory as the launcher executable; in production mode, the directory containing properties.xml is defined in the configured cache location.

This view also provides a Status tab that displays information about the server application, including its version, status, failover role, and last attempted contact and last successful contact with the back-office server.

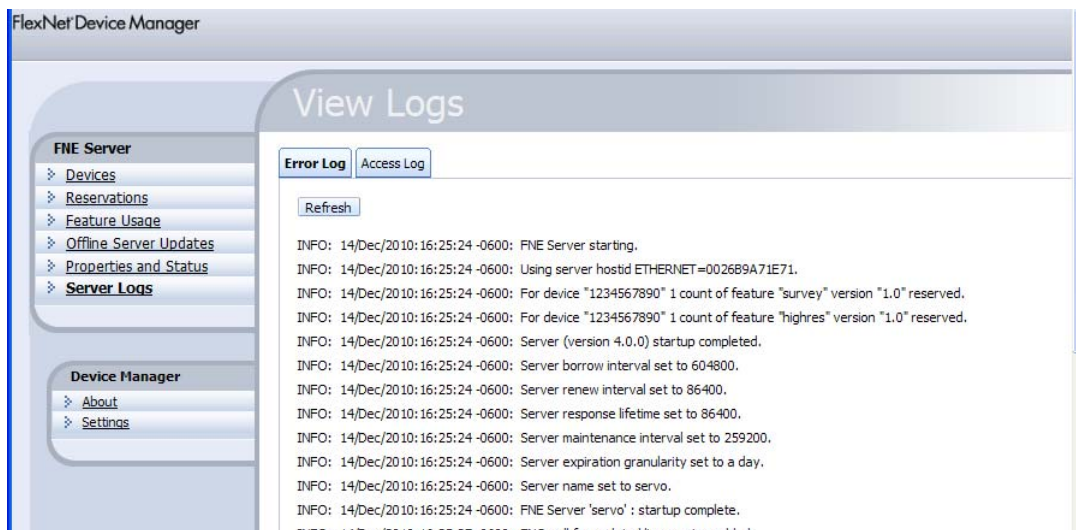
Server Logs View in FlexNet Device Manager

The Server Logs view shows two logs related to the server application:

- For file destinations, you can select the desired log file to view from the Log Files drop-down list.

The Error Log tab shows the server application's log file, which includes messages generated by the server application. Which messages are displayed in this log depend on the log levels enabled in the "Log level" selections in the server properties. (For performance reasons, debug-level messages are not displayed in the Device Manager's Error Log tab if the "Log destination" is set to "stderr" or "stdout", even if enabled in the log-level settings. Debug-level messages are of course written to the actual target log destination.)

- The Access Log tab (not pictured) shows standard web-server access information.



FlexNet Device Manager Information and Settings

Below the other commands in the FlexNet Device Manager menu is the Device Manager group, which contains the About and Settings views. The About view displays build, system, and browser information. In the Settings view, you specify the port number and host name where the FNE server application is running, as well as whether to enable certain Device Manager functionality. These configuration settings appear in a separate list because they can be modified even if the server application is inaccessible, unlike the other server configuration properties.

The properties include:

- Number of log lines: the number of lines of an error or access log file to display per page
- Allow device drop: whether a device's details page should enable the functionality to mark a device as destroyed
- Page size: the number of records to display per page
- FNE server listen port: the port number on which the Device Manager will listen for server application data (default is 3333)
- FNE server host name: the hostname of the system on which the server application executable is running (default is "localhost")
- Display failover properties: whether to display failover-related properties in the Properties and Status view