

# Install Guide



Visualize Storage Instantly



# intermine FILECENSUS 4

Welcome to Intermine FileCensus 4, Intermine's leading enterprise-wide storage resource management software. FileCensus uses data collected from all files, users, and directories in an organization's storage environment to help companies best utilize IT resources. This scalable solution eliminates system overloads by showing where file bottlenecks exist, what types of files are clogging the system, and how to streamline file storage, resulting in better efficiencies and cost savings. This Guide will provide step-by-step instructions of installation through basic use of FileCensus. For more comprehensive guidance please reference our FileCensus 4 Users Manual.

For additional information, visit:

**[www.intermine.com](http://www.intermine.com)**

For technical support, contact:

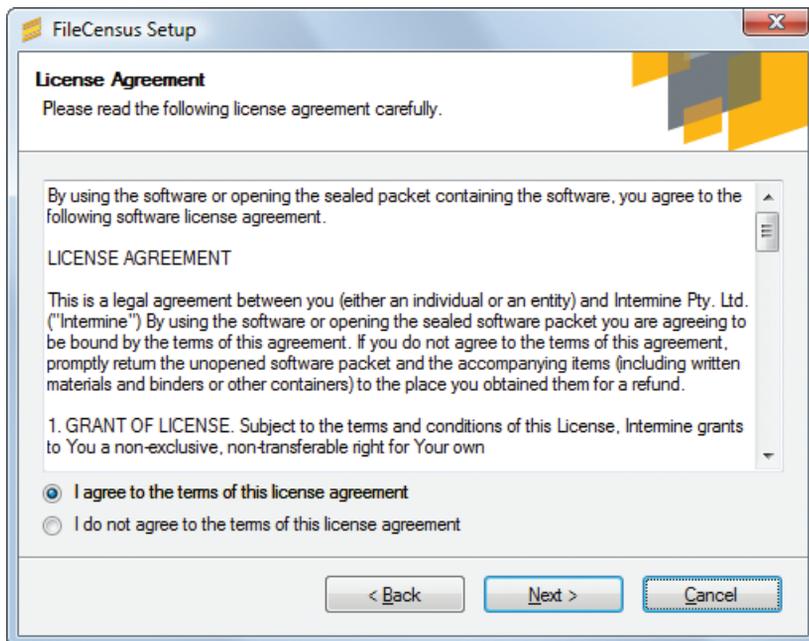
**[support@intermine.com](mailto:support@intermine.com)**

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# Software License Agreement

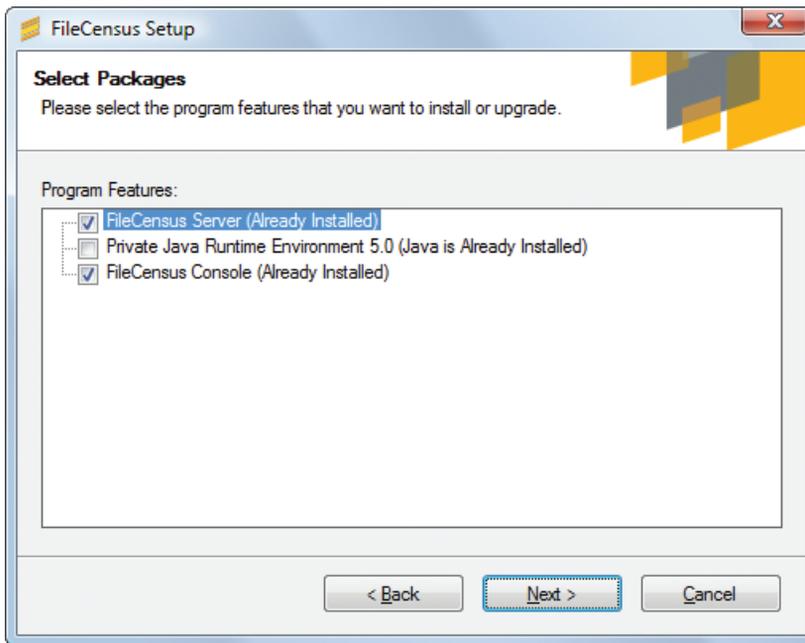
You will not be allowed to proceed until you agree to the terms of the Intermin License Agreement. Check the “I agree to the terms of this license agreement” option only after you have read and familiarized yourself with the license agreement. Click Next to continue.



# Installation

## SELECT PACKAGES

Select the program features you want to install or upgrade. The Setup program will automatically select what it thinks are the best options for the target machine; however, these defaults can be overridden.



Click Next to proceed. Each program features is explained in more detail in the following sections.

### FileCensus v4

Selecting the File Census v4 option installs the FileCensus Server. The server is accessible remotely via the FileCensus Console. If you intend to access the server remotely, there is no need to install the FileCensus Console on the server machine.

### Private Java Runtime Environment 5.0

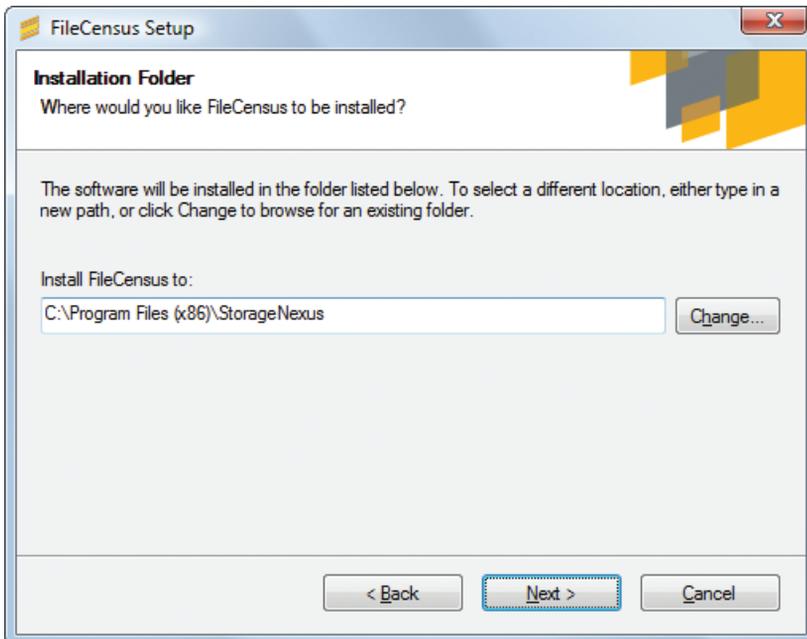
Selecting Private Java Runtime Environment 5.0 installs a private Java Runtime Environment (JRE). It is not necessary to install a private JRE if you already have Java 5 or later. Note: both the FileCensus Server and the FileCensus Console require access to a Java 5 or later JRE.

## FileCensus Console

FileCensus Console is the user-friendly interface to the FileCensus server. The FileCensus Console can connect to a remote instance of a FileCensus v4 server. As a result it may be beneficial to install the FileCensus Console remotely to the FileCensus v4 server and local to the administrator. Many FileCensus Console applications can access a single instance of a FileCensus v4 server concurrently.

## Installation Folder

The Installation Folder screen allows you to choose the location of FileCensus. By default, FileCensus v4 will be installed in **C:\Program Files\StorageNexus**.

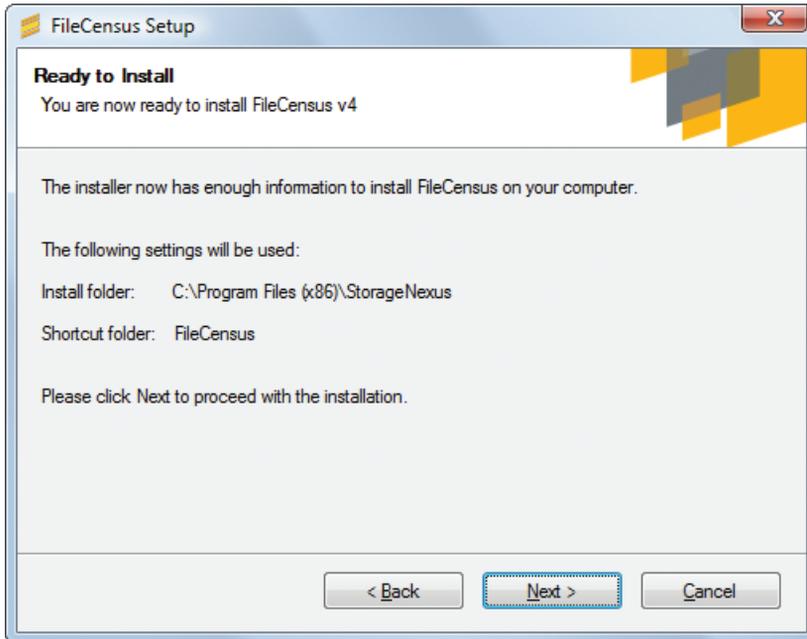


Select where you want to install FileCensus and click Next to proceed.

The install folder can be moved to another area on the same server, but you will need to manually change the Start Menu entries to reflect the new directory. Move FileCensus to another server does require some configuration changes (see Manual Agent Install) due to the different IP Address on the new server.

## Installation Summary

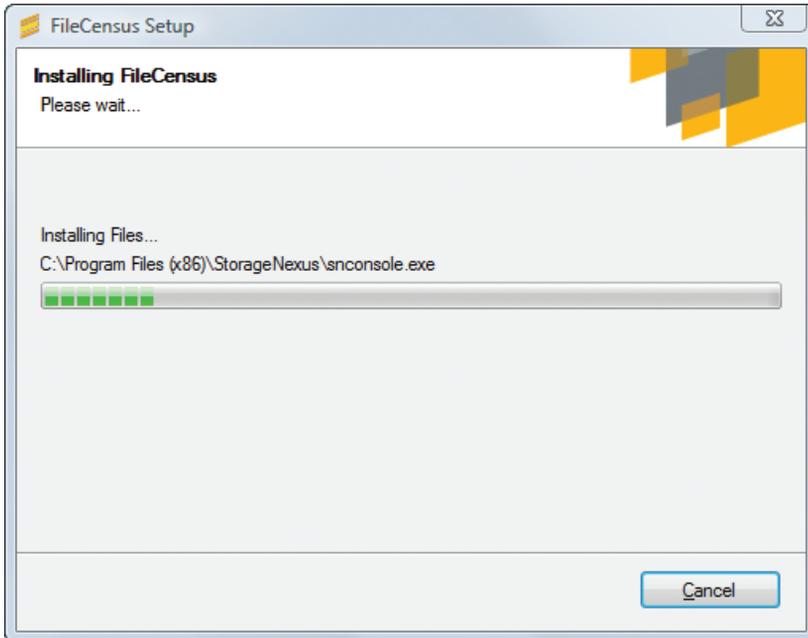
The Installation Summary screen displays the options chosen and offers you a chance to verify these options before any files are written to disk.



Selecting Next installs FileCensus v4 on your system.

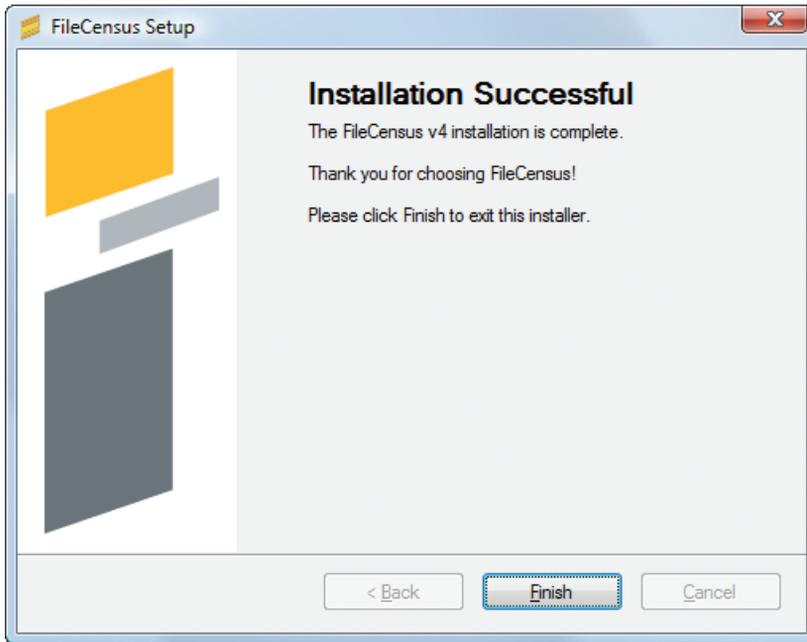
## Installing FileCensus

The FileCensus software will start installing into the directory you selected. You may cancel this process by clicking on the Cancel button



## Installation Successful

The Installation Successful screen displays when the install has finished. You can now log into FileCensus.



## License

The license.txt file needs to be manually copied into the install directory (by default **C:\Program Files\StorageNexus**).

# Launching the FileCensus Console

## START MENU / PROGRAM FILES

FileCensus Console can be started from the Windows Start Menu.

Select Start > Programs > FileCensus > FileCensus Console

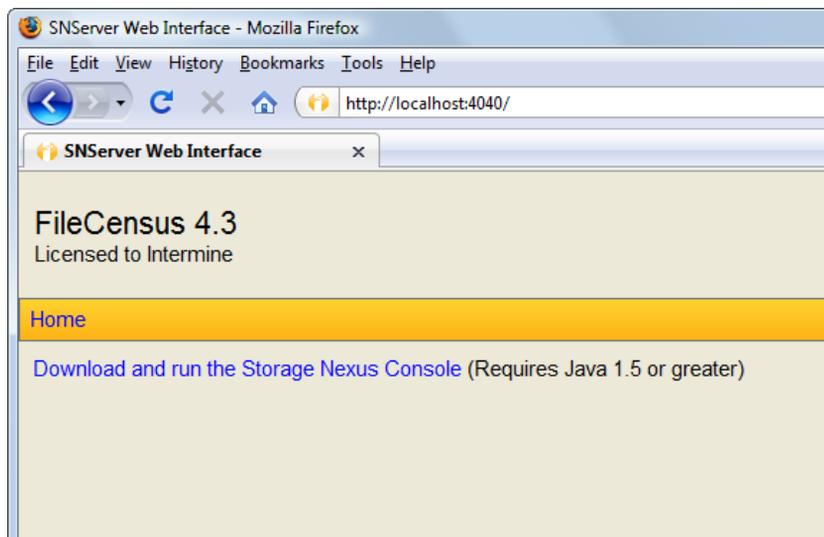
Alternatively, FileCensus Console can be launched directly from within the installation directory. Follow the directions below for your operating system:

**Windows XP: C:\Program Files\StorageNexus\snconsole.exe**

**Windows Vista: C:\Program Files (x86)\StorageNexus\snconsole.exe**

## WEB LAUNCH

The FileCensus Console can be launched remotely through a web browser, using the Java Network Launching Protocol (JNLP). FileCensus v4 and FileCensus Console must be installed on the remote machine, and Java 5 or greater must be installed locally. Using a web browser like Firefox, set the address to the FileCensus Server host name and the port to 4040.



In this screen, the FileCensus Console is about to be launched through the web interface of a local instance of FileCensus v4. Replace the IP address with the hostname of the FileCensus Server host at your site. Select the link "Download and run the Storage Nexus Console" to launch the console.

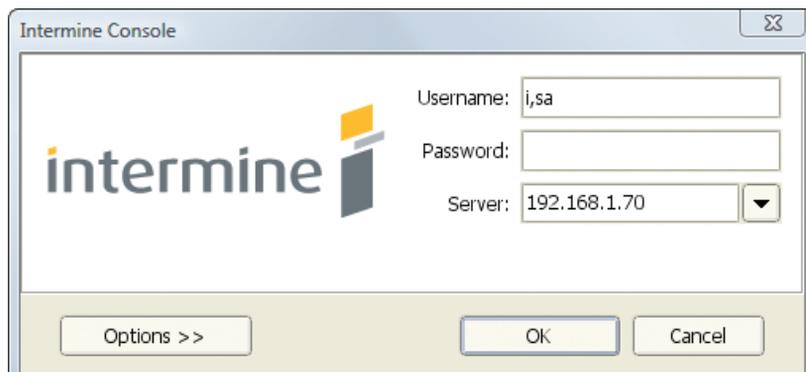
# Getting Started

## LOGIN

Launch FileCensus Console via one of the methods described in “Launching the FileCensus Console.” Log in as the in-built Administrator account, with the Username “i,sa”. This built-in administrator account is created when FileCensus v4 is installed. It initially requires no password. The server field should contain the host name of the machine running FileCensus Server version 4.

**Username:** i,sa

**Password:** <initially no password required>



The screenshot shows a dialog box titled "Intermin Console". On the left is the "intermine" logo. On the right, there are three input fields: "Username:" with the text "i,sa", "Password:" which is empty, and "Server:" with the text "192.168.1.70" and a dropdown arrow. At the bottom, there are three buttons: "Options >>", "OK", and "Cancel".

## Advanced Options

Selecting the Options button reveals the following advanced options:

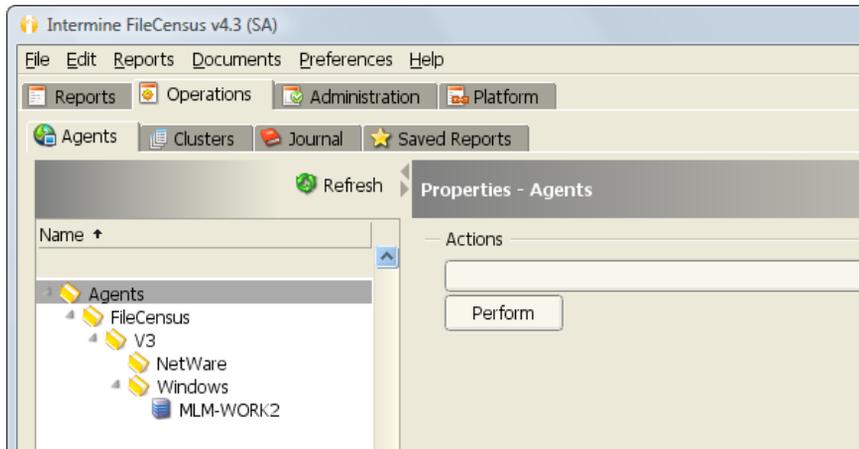
- Select the Default Font for all text throughout the application.
- Specify whether or not SSL should be used for secure communication with the FileCensus server. Please note that the FileCensus Server configuration file needs to be updated to reflect any change here.
- Select which language to use in the application.

## Logging In

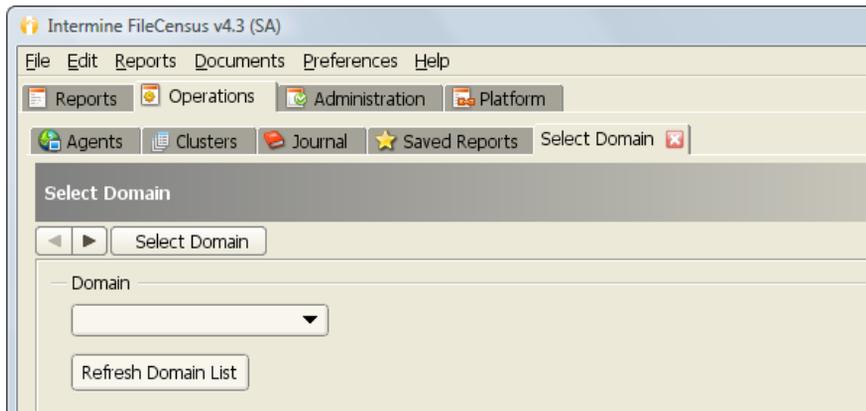
Select the options you want and press the OK button to log in. Cancel will close the application. All information entered on the login page, with the exception of the password, is saved. The input fields on the login page will default to this information next time the FileCensus Console is started.

## AGENT DEPLOYMENT

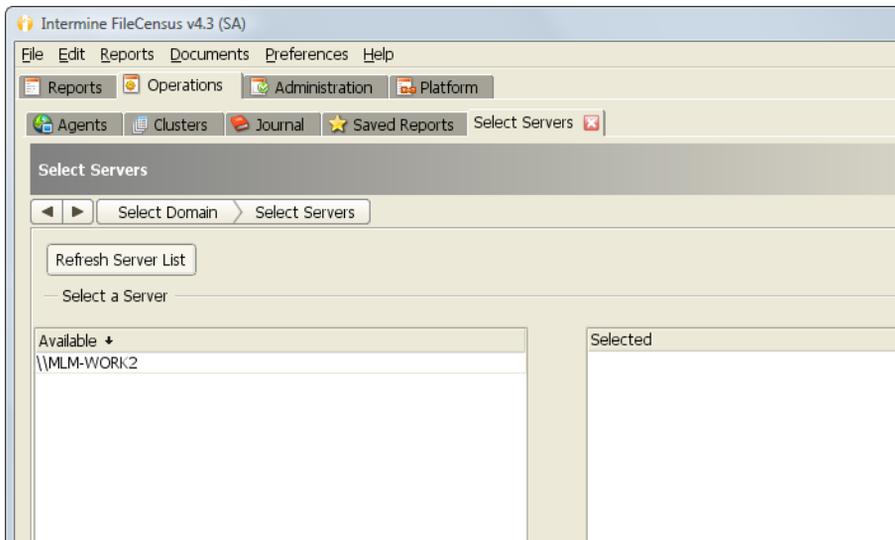
Launch and log into FileCensus Console per the “Launching FileCensus Console” instructions and select the Administration Tools tab. From there, select Deploy Agents in the list on the left-hand side of the screen



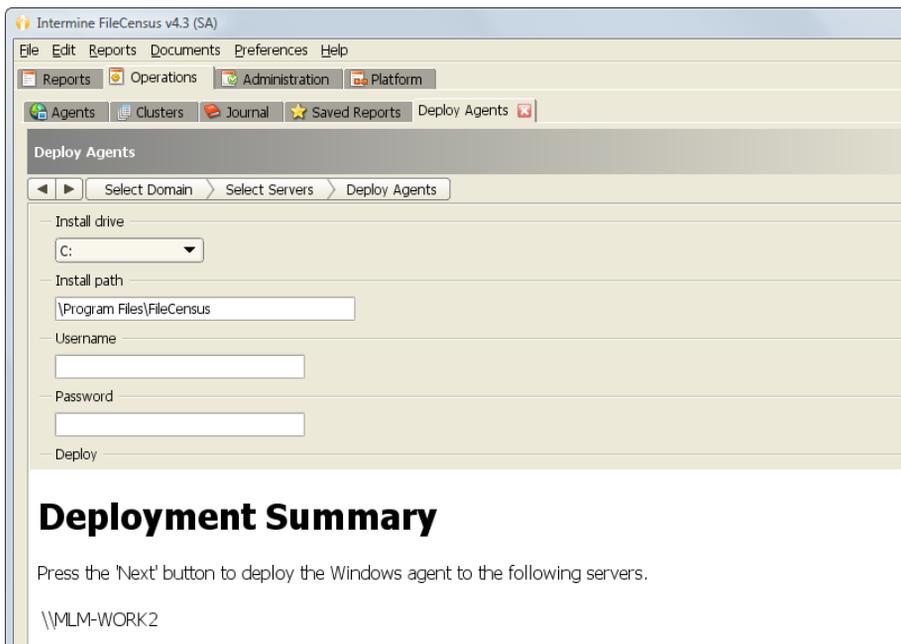
Select the **To Windows** button under the **Deploy Agents** heading. You will be presented with the first page of the **Deploy**



Select the **Domain** and then select the **Next** button. Please note that you can refresh the domain list by selecting the **Refresh Domain List** button.



Select the servers to which the agents should be deployed by selecting them from the Available list using control-left click and then selecting the Right arrow button, or by double clicking each available item one at a time. Once you choose all your servers, select the Next button to see the Deployment Summary page of the work flow.



Enter the Install drive and path where the agents are to be installed. The username and password fields should contain an administration account, which has rights to install software on the target machines. The username must be entered in the form 'user@company.com'. Select Next to see the results of the deployment.



Once the agents are successfully deployed, close the Work Flow tab by selecting the red cross on top of the tab or by pressing control-F4.

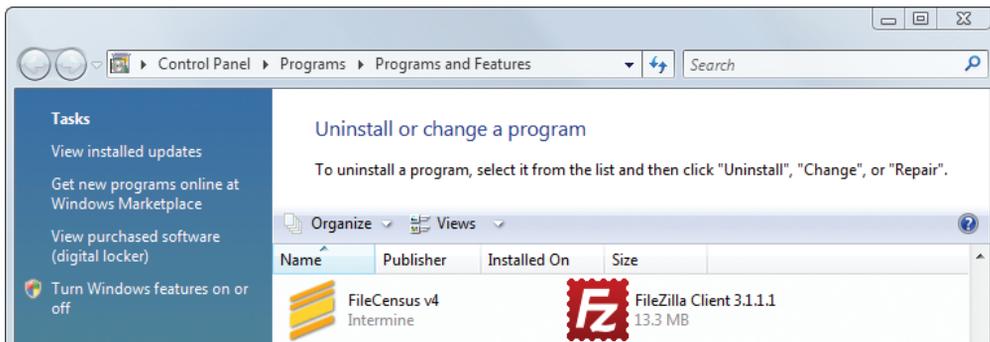
# Upgrading and Uninstalling

## UPGRADING FROM 4.X TO 4.Y

The FileCensus installation program can upgrade an existing FileCensus v4 installation. Follow the same steps outlined in Installation.

## UNINSTALLING

FileCensus can be uninstalled using the “Add or Remove Programs Control Panel” in Window XP or under the “Programs” section in Windows Vista. This can be accessed via the Start menu. Find the FileCensus icon in the list of installed programs, select it and then select the Remove Button.



## MOVING

You can move FileCensus v4 to another location on the same machine provided the destination is a local drive. In Windows XP, open a Windows command dialog by opening the Start menu and selecting Run. Type “cmd” in the Open field. Change the current working directory to the FileCensus installation directory, for example:

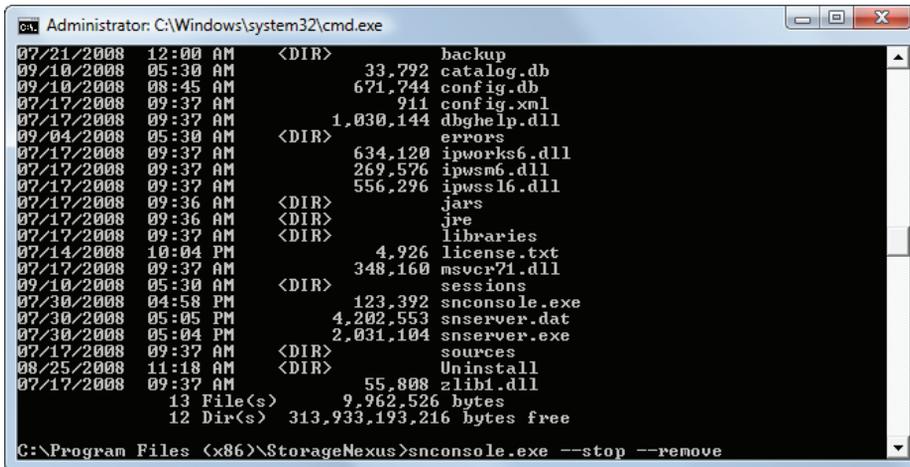
**C:\Program Files\StorageNexus.**

In Windows Vista, open a Windows command dialog by clicking the Start button and typing “cmd” into the Start Search field. Change the current working directory to the FileCensus installation directory, for example:

**C:\Program Files (x86)\StorageNexus.**

Please see the FileCensus FAQ for more information on moving FileCensus if you are using encrypted passwords.

Type `snservice.exe snservice.exe --stop --remove` and then hit Enter.



```

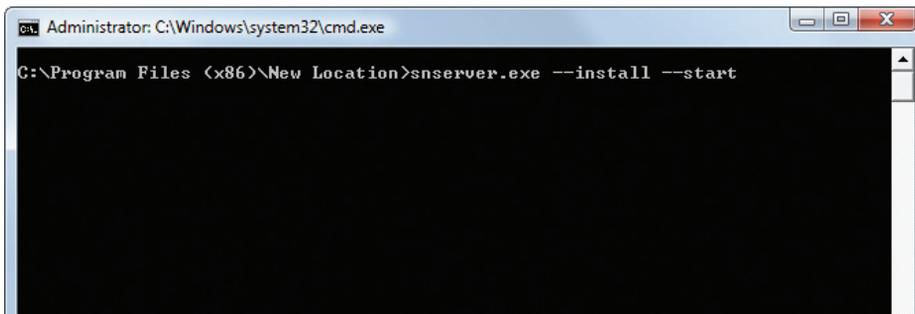
Administrator: C:\Windows\system32\cmd.exe
07/21/2008 12:00 AM <DIR> backup
09/10/2008 05:30 AM 33,792 catalog.db
09/10/2008 08:45 AM 671,744 config.db
07/17/2008 09:37 AM 911 config.xml
07/17/2008 09:37 AM 1,030,144 dbghelp.dll
09/04/2008 05:30 AM <DIR> errors
07/17/2008 09:37 AM 634,120 ipworks6.dll
07/17/2008 09:37 AM 269,576 ipwsm6.dll
07/17/2008 09:37 AM 556,296 ipwssl6.dll
07/17/2008 09:36 AM <DIR> jars
07/17/2008 09:36 AM <DIR> jre
07/17/2008 09:37 AM <DIR> libraries
07/14/2008 10:04 PM 4,926 license.txt
07/17/2008 09:37 AM 348,160 msucr71.dll
09/10/2008 05:30 AM <DIR> sessions
07/30/2008 04:58 PM 123,392 snconsole.exe
07/30/2008 05:05 PM 4,202,553 snconsole.dat
07/30/2008 05:04 PM 2,031,104 snservice.exe
07/17/2008 09:37 AM <DIR> sources
08/25/2008 11:18 AM <DIR> Uninstall
07/17/2008 09:37 AM 55,808 zlib1.dll
13 File(s) 9,962,526 bytes
12 Dir(s) 313,933,193,216 bytes free

C:\Program Files (x86)\StorageNexus>snconsole.exe --stop --remove

```

Now use the command window or Explorer exe to move the installation directory to its new location. From within the Windows command dialog, change the working directory to the new installation directory.

Type `snservice.exe --install --start` and then hit Enter.



```

Administrator: C:\Windows\system32\cmd.exe

C:\Program Files (x86)\New Location>snconsole.exe --install --start

```

# Manual Agent Install

The scan Agents, permanently loaded onto a machine, are designed to collect information about every file on that machine, compact that information into a single file, and transmit it to the FileCensus Server. Native Agents are available for both Windows and NetWare platforms.

## CONFIGURING THE AGENTS

The FileCensus Agents need to know the address of the Primary Server. The different methods that the Agents can use to determine this information are detailed in the following sections.

### Default Settings

If you copied the Agent program to a new machine and ran it without any options, it would assume the Primary Servers address is "filecensus" and that the server is operating on socket 4040.

For the Agent to work without setting the Primary Server address, you need to configure the name "filecensus" in the machine's host table or in your Domain Name Server (DNS) system. You also need to change the Primary Server socket number from the default 4030 to 80. See the – socket Commandline Options section in this chapter for information on changing the server's socket number.

### Commandline Options

You can supply the address of the FileCensus Primary Server on the command line of the "fcagent" program by using the – primary command.

Using the commandline method is useful if you are starting the Agent manually or are using a script to load the Agent. If you add the save option to the commandline, the Agent will create a file called "fcagent.cfg" with your settings. If the "fcagent.cfg" file already exists, the Agent will update the file with the new information.

All of the commandline options referenced in this guide are explained in detail, with examples and a list of valid values, in the FileCensus User Manual:

### Appendix X - Agent Commandline Options

**Important Note:** *You cannot use Agent Commandline options if you are loading the Agent as a service on Windows. You will need to set up a "fcagent.cfg" file the " – save" option.*

## fcagent.cfg Configuration File

If the "fcagent.cfg" file is present in the same directory as the fcagent program when it is loaded, the Agent will load its configuration options from this file. The "fcagent.cfg" file is a convenient option when you wish to copy both the Agent program and its configuration file to a number of machines.

You can create the file manually, or by using the – save commandline option. Simply combine all the commandline options with the – save option and run the Agent. The Agent will create the "fcagent.cfg" file and then shut down.

## Loading the Agent on Windows

You can run the FileCensus Agent on a range of Windows operating systems, from Windows 95 to Windows 2008 Server. The Agent can be run as an interactive application on all the versions.

On Windows NT servers, the Agent can be installed as a service. Run the fcagent program with the – install commandline option. You can also start the service with the – start option or through the services manager. The account that you use to install the service needs to have administrative rights.

You cannot supply commandline options to the service, so either the default settings need to work or you can use the "fcagent.cfg" file.

## Loading the Agent on NetWare

To load the FileCensus Agent on NetWare, copy the "fcagent.nlm" program to the required machine and edit the autoexec.ncf file to load the Agent. If you have created a suitable "fcagent.cfg" file, this can be copied with the fcagent.nlm to the required machine and no other configuration will be necessary.

You can also scan NetWare servers using the Windows agent (fcagent.exe). The – scan commandline option can be used to initiate the scan. For example, to scan both the SYS and DATA volumes on a server named LONDON1 you would run:

```
fcagent --scan \\LONDON1\SYS;\\LONDON1\DATA
```

This process can be very slow (due to latency) and could take several hours to complete if the server is large or is accessed across a slow network link.

# Remote Scanning

FileCensus Remote Scan is a Windows-based program that uses a wizard-style interface to identify and scan remote servers and centralize the captured information back to the FileCensus Server. The Remote Scan program does this without the need to load any software on the remote servers being scanned.

Remote Scan can be used in conjunction with native FileCensus Agents or as the only scanning process you use.

**Important Note:** *Because the remote scanning process must resolve information over the network, the performance while scanning is significantly slower than a normal FileCensus Agent.*

## PLATFORM SELECTION

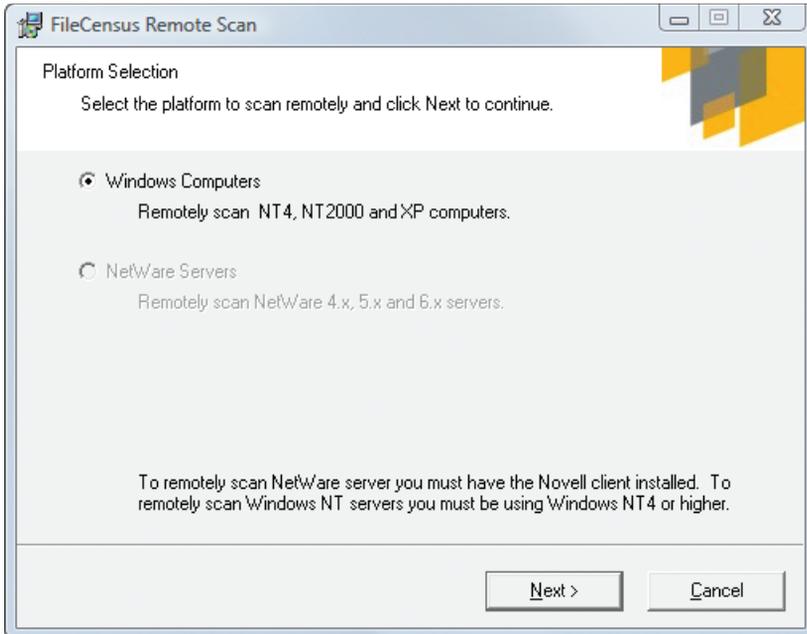
The FileCensus Remote Scanner (fcrscan.exe) is located in the default install directory (Windows XP) C:\Program Files\StorageNexus\agents". fcrscan.exe stands for FileCensus Remote Scanner.

When first running the FileCensus Remote Scan program, the Platform selection screen is displayed. If you previously created and saved a scan package you will be presented with the Available Actions screen instead. See Available Actions section.

The Platform Selection screen allows you to remotely scan either NetWare (NetWare 4.x, 5.x, or 6.x) or Windows (NT4, 2000, XP, and 2003) computers.

To remotely scan NetWare servers you must have the Novell Client installed on the machine where you are running the FileCensus Remote Scan software. To remotely scan Windows servers you must be using Windows NT4 or higher.

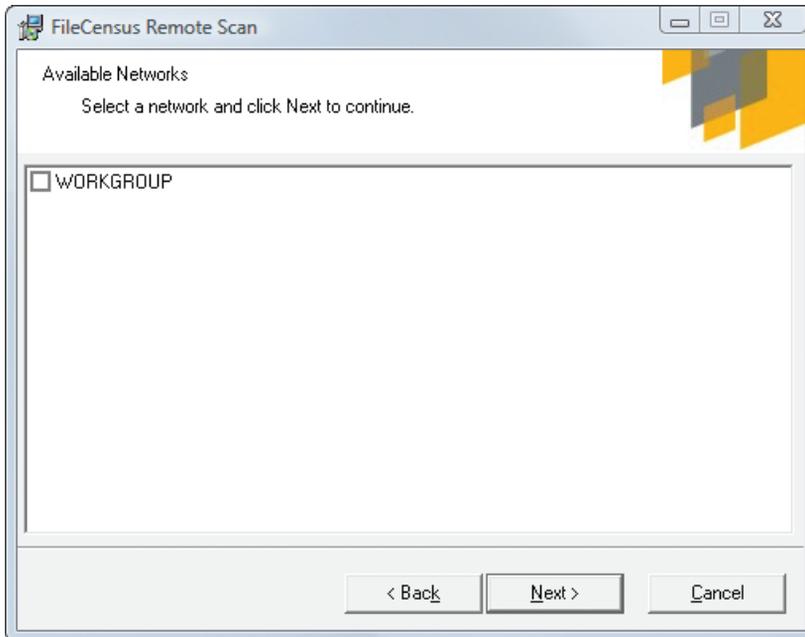
The screen shot below is displaying the Windows Computers option, which is the only option available. The NetWare Server option is grayed out, indicating that the machine the Remote Scan program is running on does not have the Novell Client installed.



Click on the Next button to proceed to the Available Networks screen.

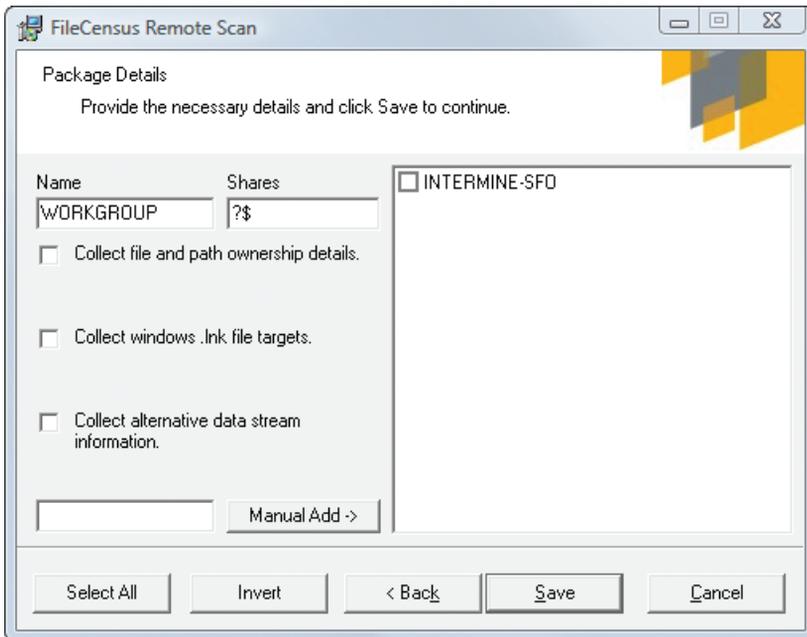
## AVAILABLE NETWORKS

The Available Networks screen lists the networks that can be accessed by the computer that is running FileCensus Remote Scan. Selecting one of the networks and clicking on the Next button will display the list of computers on the selected network.



## PACKAGE DETAILS

This screen displays all computers on the network selected in the Available Networks screen. Check off the boxes next to a computer you wish to scan.

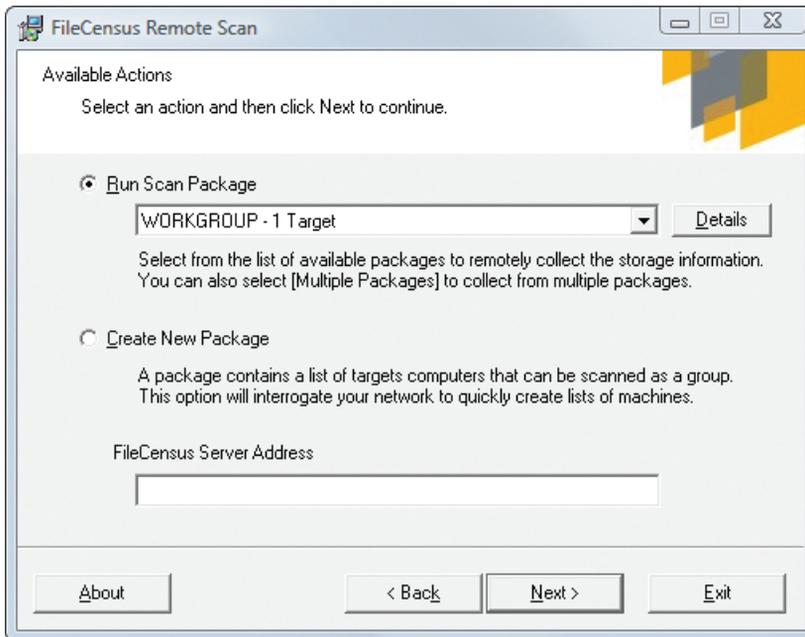


The screenshot shows a Windows-style dialog box titled "FileCensus Remote Scan". The main heading is "Package Details" with the instruction "Provide the necessary details and click Save to continue." Below this, there are two input fields: "Name" containing "WORKGROUP" and "Shares" containing "?\$". To the right of these fields is a list box containing one item: "INTERMINE-SFO" with an unchecked checkbox to its left. Below the list box is a "Manual Add ->" button. On the left side of the dialog, there are three unchecked checkboxes with labels: "Collect file and path ownership details.", "Collect windows .lnk file targets.", and "Collect alternative data stream information.". At the bottom of the dialog, there are five buttons: "Select All", "Invert", "< Back", "Save", and "Cancel".

Once you select the computers you want to scan, click on the Save button to save the group of selected computers as a package. This package can then be selected later and run again.

## AVAILABLE ACTIONS

The Available Actions screen is used to run an existing package or create a new package. The Available Actions screen is the first screen you will see if you have created packages in the past.



The drop-down list under the Run Scan Package section lists all available packages. Each entry in the list will display the package name and how many computers, or targets, are in the package.

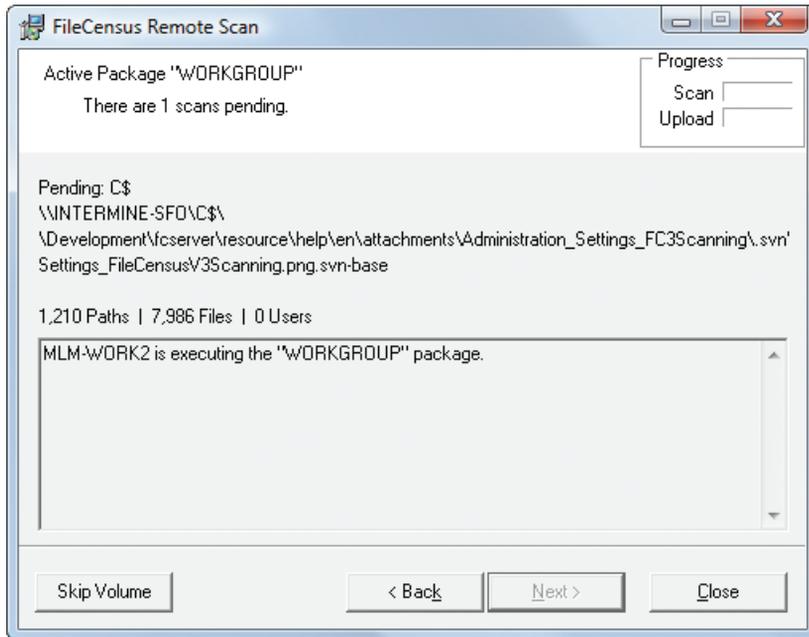
You can change the name of the selected package by clicking on the Details button next to the package name. Changing the name of the package will not affect the targets already selected in the existing package. You can also delete a package from this screen by clicking on the Delete button and accepting the prompt, which confirms your decision to delete the package.

The drop-down list under the Run Scan Package section also includes an option for Multiple Packages. If you select this option and click on the Next button a screen will display and allow you to select one or more packages to run. Before you click the Next button, you must enter the IP Address and Port Number of the FileCensus server. If the Remote Scanner is running on the same server as FileCensus server you can enter 'localhost:4030'.

The other option on the Available Actions screen is the Create New Package. Selecting this option and clicking on the Next button will take you to the Platform Selection screen. See the Platform Selection section in this chapter.

## ACTIVE PACKAGES

The Active Package screen will display when a package is being remotely scanned.



## RUNNING MULTIPLE COPIES

If you need to run multiple copies of the FileCensus Remote Scanner, please see the FileCensus FAQ for more details.

# Upgrading from v3 to v4

## TRANSITIONAL CONFIGURATION

FileCensus v3 uses TCP port 3030 for all its communications. The messages on this port are multiplexed to the different services that are responsible for these messages. In v4 of the FileCensus server, each service has its own port for communications. The configuration of these ports is stored in the file config.xml, which lives in the installation directory.

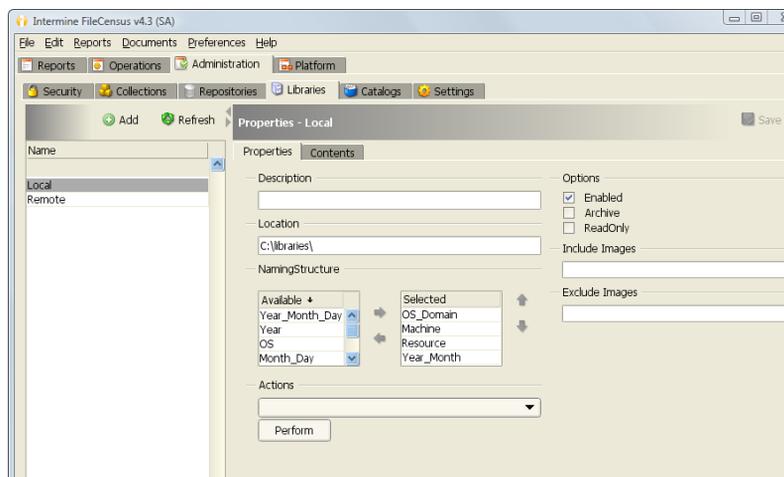
## RUNNING V4 AND V3 CONCURRENTLY

FileCensus v3 and v4 of FileCensus server can co-exist on the same machine during a transitional period. In this configuration, FileCensus Server v3 continues to manage the system and the FileCensus agents will still be configured to communicate with this instance. FileCensus v4 is effectively run in “read only” mode.

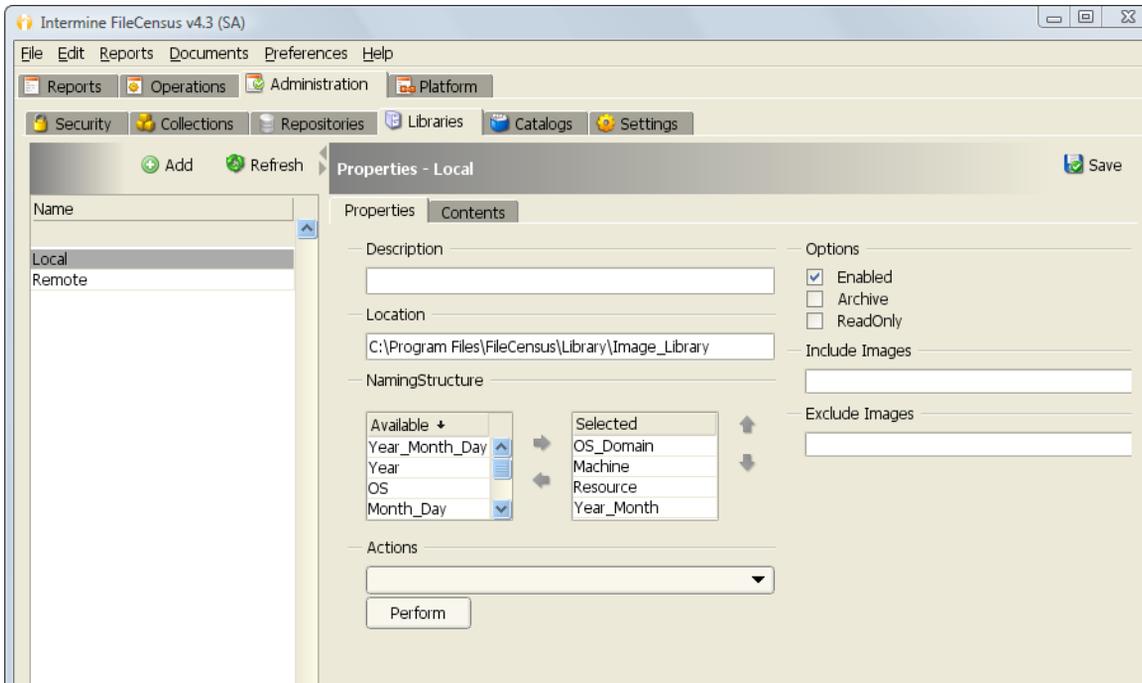
Please note that it is important to install FileCensus Server v4 in a different directory than FileCensus Server v3 in this configuration. It is also recommended that the default port settings be used.

## Configuring the v3 Library

From within the FileCensus Console, select the Administration Libraries tab.



**Define a library in FileCensus Server v4 that points to an existing FileCensus Server v3 library. Make this library “read only” by checking the Read Only option of the library in the properties tab**



**This will enable you to experience the reporting benefits of FileCensus Server v4 without altering any existing v3 configuration.**

## FileCensus Server v4 With Existing FileCensus Agents

To complete the transition between FileCensus v3 and FileCensus v4, you need to stop and remove FileCensus Server v3 and uncheck the Read Only option for each library as defined in the section Running v3 and v4 concurrently. Please note that FileCensus Server v3 must be stopped prior to any agent configuration change.

Any existing FileCensus agents will attempt to communicate with a FileCensus Server on port 3030. The easiest way to make these agents communicate with v4 of the FileCensus Server is to change the agent port configuration to 3030.

Edit the config.xml file, located in the FileCensus installation directory. Find the "agent server" section and change the port number to 3030 and save the file.

```
<d k="agent_server">  
  <i k="backlog">20</i>  
  <s k="bind">*</s>  
  <i k="enabled">1</i>  
  <i k="helpers">4</i>  
  <i k="port">3030</i>  
  <i k="threads">8</i>  
</d>
```

Next, drag the old version 3 library directory to the FileCensus version 4 "libraries/local" directory (the default on Windows XP is "C:\Program Files\StorageNexus\libraries\local").

In the FileCensus console, go to the Tools->Library tab under the Administration section and click on the verify button. Once this is completed, click on the Compress button. If you have a lot of FileCensus images, this may take some time as every one of the Version 3 FileCensus images will be recompressed with the updated version 4 compression method. This new method will generally halve the size of the FileCensus compressed images. We recommend performing the compression over a weekend when generally no one will be using FileCensus.



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