

# SmartBins

DIGITAL NEWS PRODUCTION

Instruction Guide

SOFTWARE VERSION 5.3

071837001  
JUNE 2005

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# CERTIFICATE

Number: 510057.001

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Including its implementation, meets the requirements of the standard:

## ISO 9001:2000

Scope: The design, manufacture and support of video hardware and software products and related systems.

This Certificate is valid until:	June 14, 2006
Revision Date:	September 9, 2003
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Issued for the first time:	June 14, 2000



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## Grass Valley Product Support

To get technical assistance, check on the status of problems, or report new problems, contact Grass Valley Product Support via e-mail, the Web, or by phone or fax.

### Web Technical Support

To access support information on the Web, visit the product support Web page on the Grass Valley Web site. You can download software or find solutions to problems by searching our Frequently Asked Questions (FAQ) database.

**World Wide Web:** <http://www.thomsongrassvalley.com/support/>  
**Technical Support E-mail Address:** [gvgtechsupport@thomson.net](mailto:gvgtechsupport@thomson.net)

### Phone Support

Use the following information to contact product support by phone during business hours. Afterhours phone support is available for warranty and contract customers.

United States	(800) 547-8949 (Toll Free)	France	+33 (1) 34 20 77 77
Latin America	(800) 547-8949 (Toll Free)	Germany	+49 6155 870 606
Eastern Europe	+49 6155 870 606	Greece	+33 (1) 34 20 77 77
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## *Preface*

### **Authorized Support Representative**

A local authorized support representative may be available in your country. To locate the support representative for your country, visit the product support Web page on the Grass Valley Web site.

### **Profile Users Group**

You can connect with other Profile XP Media Platform users to ask questions or share advice, tips, and hints. Send e-mail to [profile-users@thomson.net](mailto:profile-users@thomson.net) to join the community and benefit from the experience of others.



## **Introducing SmartBins**

SmartBins provide a way to automatically synchronize the media in NewsEdit and Video Server bins. A SmartBin is a NewsEdit bin which monitors a folder on a Video Server and automatically updates the SmartBin contents when new or updated media appears.

Video Server SmartBins handle clips from a Profile or an M-Series iVDR, and Media Import SmartBins handle QuickTime DV25/DV50 media. SmartBins work differently depending on the type of shared storage you are using:

- A Profile Media Server on an Open SAN system supports Video Server SmartBins only.
- A NAS system supports Video Server SmartBins, with a Profile Media Server or M-Series iVDR, and Media Import SmartBins.

### **SmartBins on an Open SAN System**

On an Open SAN system, SmartBins map folders from a bin in the NewsEdit tree view to a bin in the Profile view. As with drag and drop via ContentShare Explorer or Media Manager, this automatic synchronization never moves actual media files—the bin structure represents two different views into the shared media file system.

When you first create a bin in NewsEdit, you can map that bin to a Profile bin; after a NewsEdit bin is created, it cannot be mapped. Once an association is created, the NewsEdit and Profile bins are kept synchronized. See Chapter 4, “Creating SmartBins in NewsEdit” for instructions on creating SmartBins.

SmartBins support simple (flattened) movies, but not sequences, sub-folders, or sub-clips that the Profile cannot use directly. Also, SmartBins cannot have sub-bins.

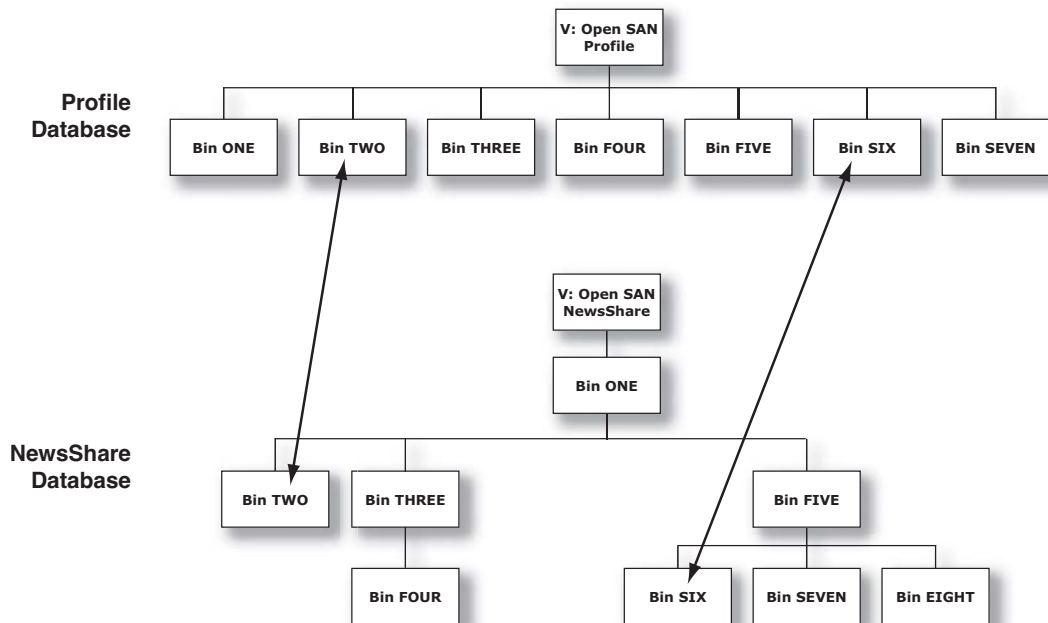
The computer running the SmartBins SAN service must have a Fibre Channel-SCSI connection to the Open SAN and a CVFS license.



## SmartBin Folder Synchronization

When the SmartBins Service starts, it determines which NewsEdit bins are associated with Profile bins and then queries the Profile database for the movies in each associated bin. Any movies in Profile bins that are not in the associated NewsEdit bin are registered to the NewsEdit database. The SmartBins service does not verify that NewsEdit clips are in the Profile database, so the synchronization is one way only—Profile to NewsEdit.

No files are moved—a mapping of the folders between the flat and tree views takes place.



## Updating the Databases

The SmartBins Service constantly monitors both the NewsEdit and Profile databases. Examples of updates to the database are listed below.

Action		Profile Database	NewsEdit Database
Rename clip	on Profile	Clip renamed.	SmartBins service renames clip; if clip cannot be renamed, the databases become out-of-sync.
	on NewsEdit	Clip renamed per NewsEdit unless there is a conflict, in which case renaming fails in both databases.	Clip renamed unless there is a conflict on the Profile, in which case renaming fails in both databases.
Delete clip	on Profile	Clip deleted.	SmartBins service deletes clip; if the clip is in use, databases become out-of-sync.
	on NewsEdit	Clip deleted per NewsEdit unless there is a conflict, in which case deletion fails in both databases.	Clip deleted unless there is a conflict on the Profile, in which case deletion fails in both databases.
Delete bin	on Profile	Bin (and all movies contained within) deleted, unless a clip is being used in NewsEdit in which case the deletion fails in both databases.	
	on NewsEdit	No change; bin not deleted.	SmartBin monitoring disabled; bin and bin contents deleted.
Add a movie	on Profile	Movie added.	SmartBins service registers clip unless it is a complex movie, in which case the clip is not registered and the databases become out-of-sync.
Create master clip	on NewsEdit	SmartBins service registers master clip when recording is complete.	Master clip created while recording



## SmartBins on a NAS System

A NAS system supports two types of SmartBins—Video Server SmartBins, which handle clips from a Profile Media Server or M-Series iVDR, and Media Import SmartBins, which handle QuickTime DV25/DV50 media.

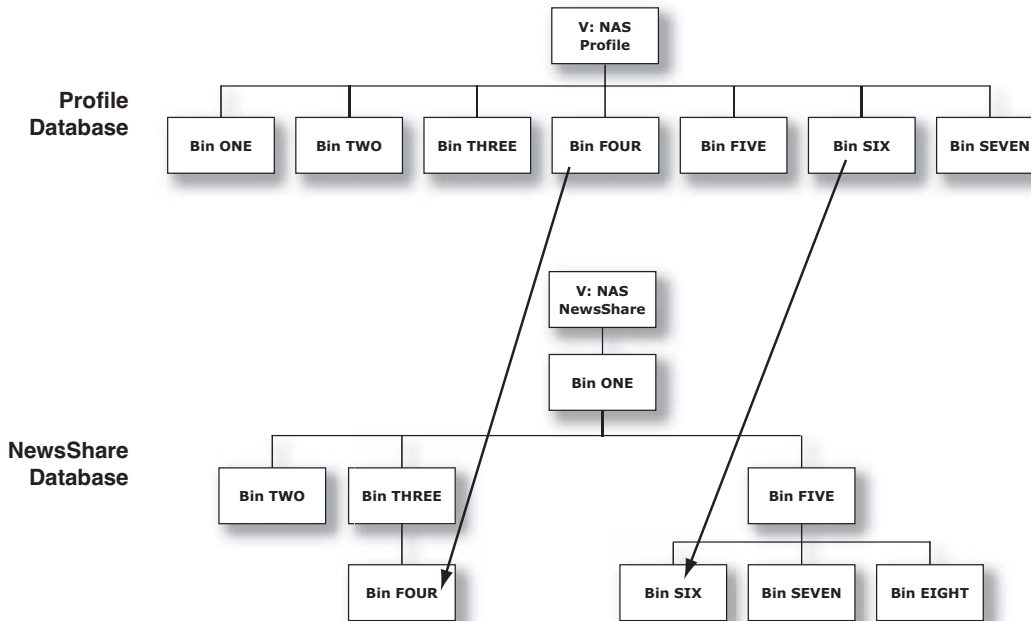
### Video Server SmartBins

On a NewsShare NAS System, SmartBins map folders from a bin in the NewsEdit tree view to a bin in the video server view. Media is transferred, unidirectionally, via GXF from the video server to the NAS and registered in the NewsShare database so it can be seen from NewsEdit.

SmartBins use a static directory mapping so all files in a particular video server bin are monitored and automatically transferred as they arrive to a selected NewsEdit NAS Bin, and are then (optionally) deleted from the video server.

SmartBins effectively create a buffered recording so that material is protected and redundantly saved (both on the video server and on the NAS) while still making the file available for shared editing or immediate playout. There is a 30-second delay before the recorded material is available on NewsEdit.

SmartBins on a NAS require an external XRE Server or DSM to provide the folder monitoring and transfer services to the NAS system. A DSM can support up to 4 record streams (2 M-Series chassis). Beyond four streams, dedicated XRE Servers should be used as necessary, budgeting 6 streams per XRE Server. You also need to mount the NAS volume on the machine running the SmartBins Service.



## Media Import SmartBins

Media Import SmartBins allow you to import QuickTime DV25/DV50 .mov files into NewsEdit so you can use Apple's Final Cut Pro within a NAS environment. Once configured, files exported into the source folder are automatically imported into the NewsEdit bin and converted from .mov to .vmf format.

Unlike Video Server SmartBins, a file in a Media Import SmartBin must finish importing before the data is available for editing.



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*Chapter 1 Introducing SmartBins*

## ***Installing the Software***

In order to use SmartBins, you need to install Profile PC client software, install the SmartBins Service and obtain a license for the software for use in your newsroom. The software should be installed on the system that will be hosting the SmartBin Server, which may be a DSM or a separate XRE Server.

In addition, if you are using SmartBins on a NAS, you need to mount the NAS volume on the machine running the SmartBins Service.

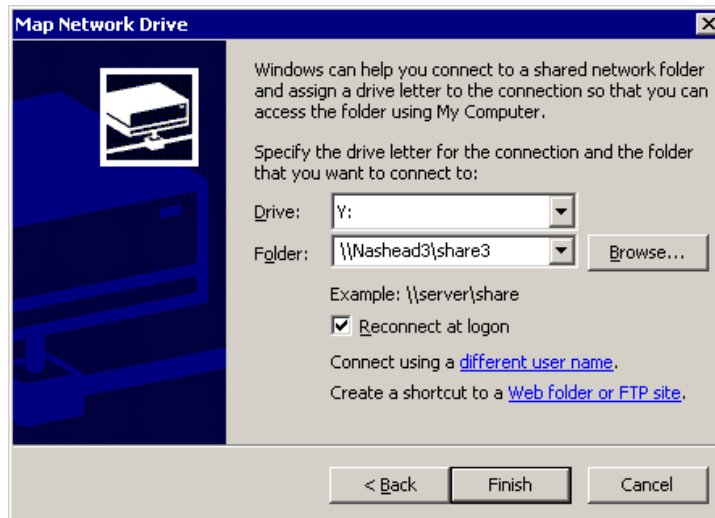


## Mounting the NAS Volume

If you are using SmartBins on a NAS system, you need to mount the NAS volume on the machine running the SmartBins Service before installing the NewsroomSuite software. If you have an Open SAN system, you can skip this step.

To mount a NAS volume:

1. On the machine you want to map the drive to, open **My Computer** and select **Tools | Map Network Drive**.



2. Select the NAS drive letter from the drop-down list.
3. Type in the name of the NAS folder where the shared database resides.
4. Check the **Reconnect at login** checkbox.
5. Click **Finish**.

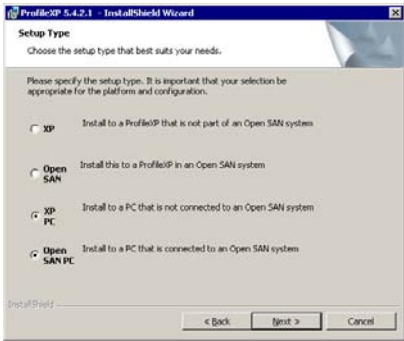


## Installing the Profile Software

You need to install the Profile software regardless of which kind of shared storage you are using—Open SAN or NAS.

To install the Profile software:

1. Insert the NewsroomSuite CD into your CD drive.
2. Navigate to **Software Installs | Profile version | XP**.
3. Double-click on **Setup.exe**.
4. Install the software following these instructions:

On this screen...	Do this...
Welcome	Click <b>Next</b> .
License Agreement	Read and accept, then click <b>Next</b> .
Setup Type	For an Open SAN system, select <b>Open SAN PC</b> ; for a NAS system, select <b>XP PC</b> . Click <b>Next</b> . 
Ready to Install	Click <b>Install</b> .
Installation Complete	Click <b>Finish</b> . The computer prompts you to reboot so the new settings take effect.

**NOTE:** *If you are upgrading from a previous version of Profile software, and haven't uninstalled the previous version, the system remembers which Setup Type you installed and updates that version of Profile software.*



## Installing the SmartBins Service

To install the SmartBins Service:

1. Insert the NewsroomSuite CD into your CD drive and navigate to **SmartBins Service**.
2. Double-click on **SetupSmartBinsService.exe**.
3. Follow the instructions for your media server type.

### Open SAN

Follow these instructions if you are installing the SmartBins Service on a system using an Open SAN media server:

On this screen...	Do this...
Welcome	Click <b>Next</b> .
Select Destination Directory	Leave set at the default location and click <b>Next</b> .
Select Type of Shared Database	<ol style="list-style-type: none"><li>1. Select <b>Open SAN</b>.</li><li>2. If you want to use security on your shared database, check <b>Domain Security</b>.</li><li>3. Click <b>Next</b>.</li></ol>
Specify the Servers for the Shared Database	Enter the names of the primary and secondary (if applicable) File System Managers and click <b>Next</b> .
Specify Directory for AV Cache files	Leave set at the default location and click <b>Next</b> .
Ready to Install	Click <b>Next</b> to begin the installation.
Installation Complete	Click <b>OK</b> to close the installation program. The computer prompts you to reboot so the new settings take effect.

## **Network Attached Storage (NAS)**

Follow these instructions if you are installing the SmartBins Service on a system using a NAS media server:

<b>On this screen...</b>	<b>Do this...</b>
Welcome	Click <b>Next</b> .
Select Destination Directory	Leave set at the default location and click <b>Next</b> .
Select Type of Shared Database	<ol style="list-style-type: none"><li>1. Select <b>NAS</b>.</li><li>2. If you want to use security on your shared database, check <b>Domain Security</b>.</li><li>3. Click <b>Next</b>.</li></ol>
Select SmartBin Option	<ol style="list-style-type: none"><li>1. Select <b>SmartBins Encoder</b> if you are installing this software on a NewsBrowse Ingest Encoder; otherwise, select <b>Standard</b>.</li><li>2. Click <b>Next</b>.</li></ol>
Specify the Servers for the Shared Database	Enter the names of the primary and secondary (if applicable) Database System Managers and click <b>Next</b> .
Specify Directory for AV Cache files (SmartBins Encoder option only)	Leave set at the default location and click <b>Next</b> .
Specify the shared drive(s) in use with this system	Leave set at the default location and click <b>Next</b> .
Ready to Install	Click <b>Next</b> to begin the installation.
Installation Complete	Click <b>OK</b> to close the installation program. The computer prompts you to reboot so the new settings take effect.



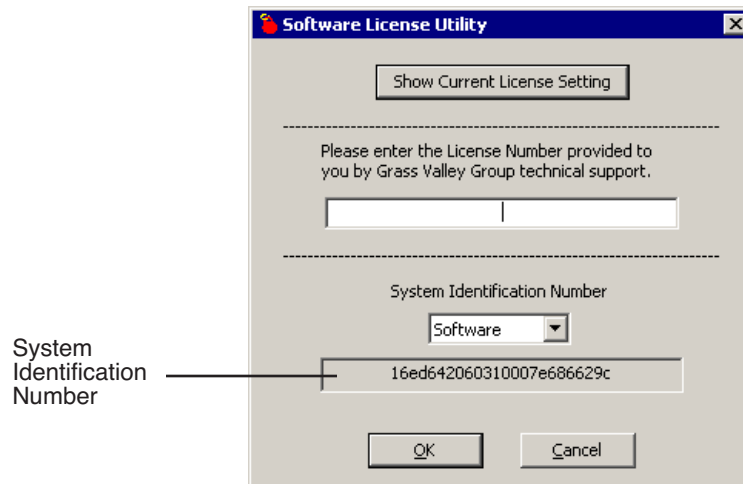
## Obtaining a Software License Number

Once you've installed the SmartBins Service software, you need to get a License Number from Grass Valley.

To obtain a License Number:

1. Open Windows Explorer and browse to **C: | Program Files | Vibrint 3.0 | Utilities**.
2. Double-click the file **License.exe** to open it.

The Software License Utility opens:



Your System Identification Number appears in the bottom field of the window.

3. Call Grass Valley Product Support at 1-800-547-8949 and provide the customer service representative with your System Identification Number, as well as the software version and the original order number for the system.
4. Enter the License Number provided to you by Grass Valley Product Support and click **OK**.

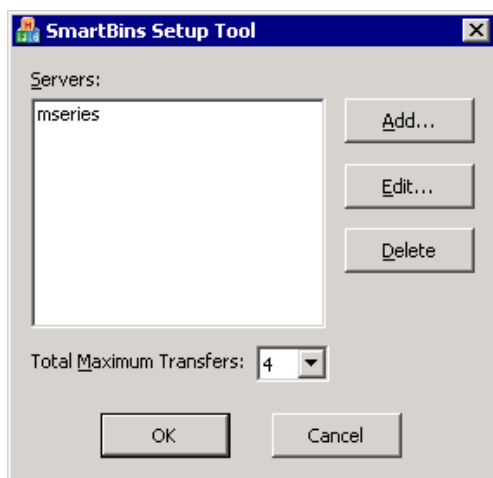
## **Configuring SmartBins Service on a NAS System**

If you are using SmartBins on a NAS system, you need to configure your M-Series iVDR(s) or Profile XP to use SmartBins. If you are using SmartBins on an Open SAN system, you can skip this step.

To configure the SmartBins Service on a NAS system:

1. Go to **Start | Programs | Vibrint 3.0 | SmartBins Setup Tool**.

The SmartBins Setup Tool opens.



2. Select the **Total Maximum Transfers** from the drop-down list.

The Total Maximum Transfers is the total amount of streams for this particular instance of the SmartBins Service. Select **4** if the SmartBins Service is installed on the DSM and select **6** if the SmartBins Service is installed on a standalone PC.

**NOTE:** *Increasing the number of Total Maximum Transfers affects the bandwidth on the NAS system.*

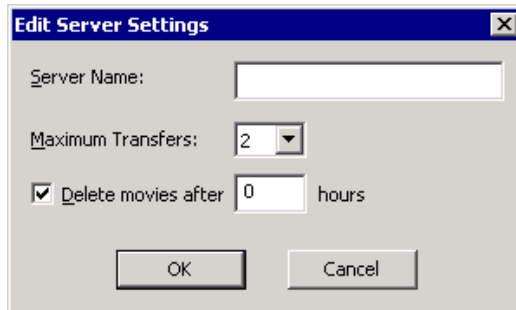


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## Chapter 3 *Configuring SmartBins Service on a NAS System*

### 3. Click **Add**.

The Edit Server Settings window appears:



4. Enter the name of the Profile Server or M-Series iVDR you are using.

5. Select the number of **Maximum Transfers** per Profile or M-Series server from the drop-down list.

If you are installing this software on a DSM, the maximum number of transfers is 2.

6. Check **Delete movies after** \_\_ **hours**, and enter the number of hours after a transfer is complete for media to remain in the database before being automatically removed.

7. Click **OK** to close the setup tool.

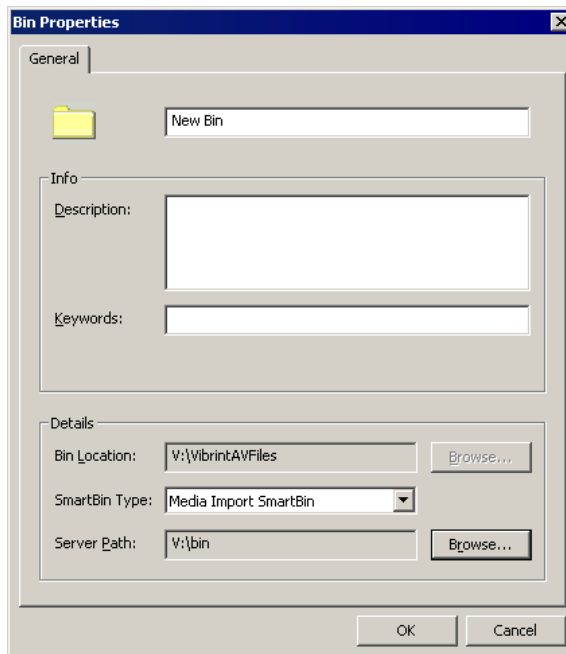
The SmartBins Service restarts.

## ***Creating SmartBins in NewsEdit***

Once you've installed the SmartBins Service, you can create SmartBins in NewsEdit which get automatically monitored and updated. A SmartBin monitors the server folder you specify and updates the content of the SmartBin automatically when new clips or updated feeds appear. You don't need to go into the server bin and copy the media into your NewsEdit bin in order to use it in for playout.

To create a SmartBin:

1. Open NewsEdit on any client workstation.
2. Click the **New Bin** button on the Bin toolbar.





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## Chapter 4 *Creating SmartBins in NewsEdit*

3. Select the SmartBin Type from the drop-down list:

Video Server SmartBin	Allows clips from a Media Server to update automatically in a NewsEdit Bin.
Media Import SmartBin	Allows QuickTime DV25 .mov and DV50 .mov files to import automatically into a NewsEdit Bin.

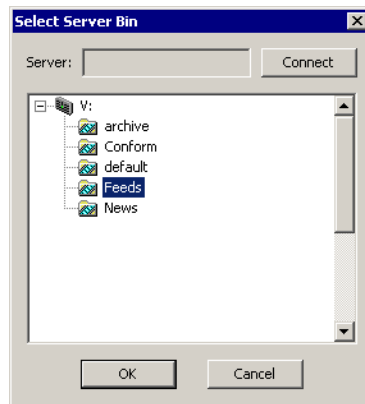
4. Follow the directions below for the type of SmartBin you are creating.

### Creating a Video Server SmartBin

To create a Video Server SmartBin:

1. Click **Browse** to the right of the Server Path field.

The Select Server Bin window appears:



2. Enter the name of the server and hit **Connect**.

***NOTE:** You only need to enter the name of the server the first time you connect; the server connects automatically once you've set it up.*

3. Select the bin to monitor and click **OK**.
4. Click **OK** to create the SmartBin.

NewsEdit now monitors the Media Server folder and adds new media to this bin automatically.



## Creating a Media Import SmartBin

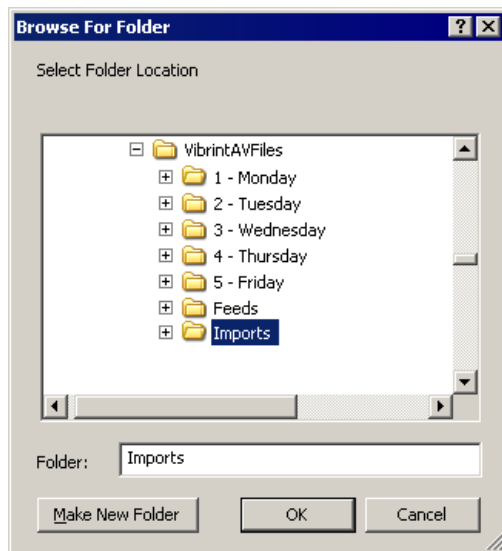
Media Import SmartBins allow you to automatically import QuickTime DV25 and DV50 .mov files into NewsEdit. This allows you to use Apple's Final Cut Pro video editing application, within a NAS environment, to create news footage and then import it into NewsEdit.

Once set up, whenever you export a file into the source folder, it is automatically imported into the NewsEdit Bin. You can then use it in a sequence.

To create a Media Import SmartBin:

1. Click **Browse** to the right of the Server Path field.

The Browse For Folder window appears:



2. Select the folder to monitor and click **OK**.

The Server Path fills in with the folder location.

3. Click **OK** to create the SmartBin.

NewsEdit now monitors the Media Import folder and imports new media to this bin automatically.



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*Chapter 4 Creating SmartBins in NewsEdit*