

# Aurora Transfer

MEDIA ASSET MANAGEMENT APPLICATION

Instruction Manual

● → SOFTWARE VERSION 6.0b

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# Preface

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This Aurora Transfer Instruction Manual is part of a full set of support documentation for the Aurora Transfer product, described as follows:

- **Aurora Transfer Instruction Manual** — Provides explanations and procedures for installing, configuring, and using the Aurora Transfer Server and the Aurora Transfer application at a customer site. This document is available in printed form as part of the product bundle when you receive your new system. It is also available in electronic form (PDF file) on the Aurora Transfer Application CD-ROM.
- **Aurora Transfer Online Help** — Provides instructions for using the Aurora Transfer application. This document is available from the Aurora Transfer application Help menu.
- **Aurora Transfer Release Notes** — Contains the latest information about the product's hardware and the software. The information in this document includes upgrade instructions, feature changes from the previous releases, helpful system administrative information, and any known problems.

## Using the Dell Server documentation

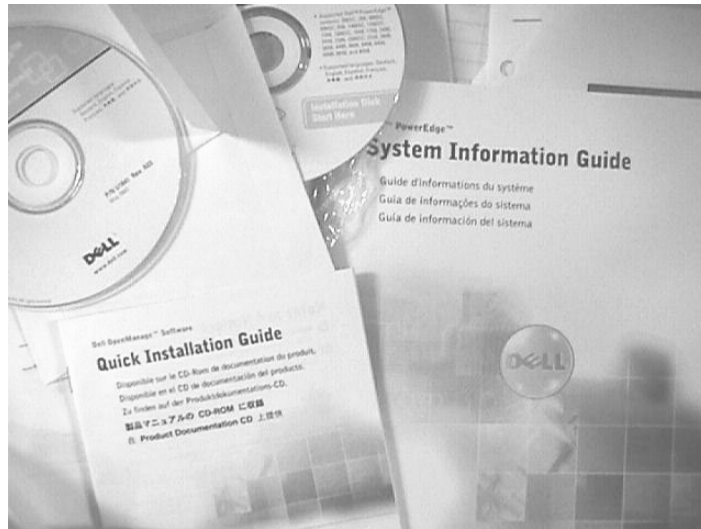
This manual contains all of the information you need to install the Transfer system, however, a full set of Dell server documentation has been provided on the *Dell Product Documentation* CD-ROM. The Dell server documentation applies to the Transfer Server. Refer to the documents on this CD-ROM only as required by procedures in this manual.

Information referenced on the *Dell Product Documentation* CD-ROM includes, but is not limited to:

- Unpacking and rack-mounting the Transfer Server
- Important safety and regulatory information
- Transfer Server status indicators, messages, and error codes
- Troubleshooting help for the Transfer Server hardware.



***CAUTION: Do not use the Dell Quick Installation Guide provided with the Dell CD-ROM package. This guide includes instructions for using the OpenManage software CD-ROM to install an operating system. The Transfer Server comes fully configured and is ready for installation. To begin installation, refer to one of the installation chapters in this manual.***



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Belgium	+32 2 3349031	Poland	+49 6155 870 606
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Grass Valley will be responsible for all costs associated with recycling and disposal, including freight. However, you are responsible for the removal of the equipment from your facility and packing the equipment to make it ready for pickup.



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# System Overview

This chapter includes the following topics:

- [“Functional description” on page 9](#)
- [“System diagram” on page 11](#)

## Functional description

The Transfer product provides the ability to navigate, find, organize, move, and manage high-resolution media assets, regardless of their physical location or type. A wide range of devices is supported, including storage devices, archive devices, servers and news editing stations.

The Transfer product is made up of two components:

- The Transfer Server — This is a dedicated server that provides the core processing mechanism for Transfer functionality. It come from the factory with software pre-installed. For a description of the Aurora Transfer Server, refer to [“About the Transfer Server” on page 14](#).
- The Transfer application — This software component provides the user interface for controlling the movement of media from source to destination. The software can be installed on a network-connected Windows PC. For a description of the Transfer application, refer to [Chapter 4, Using the Transfer application](#).

Transfer functions are built on the Grass Valley MediaFrame platform. This allows the Transfer product to share MediaFrame components with other Grass Valley products, such as Aurora Browse. The underlying protocol for file transfers is FTP.

## Product Features

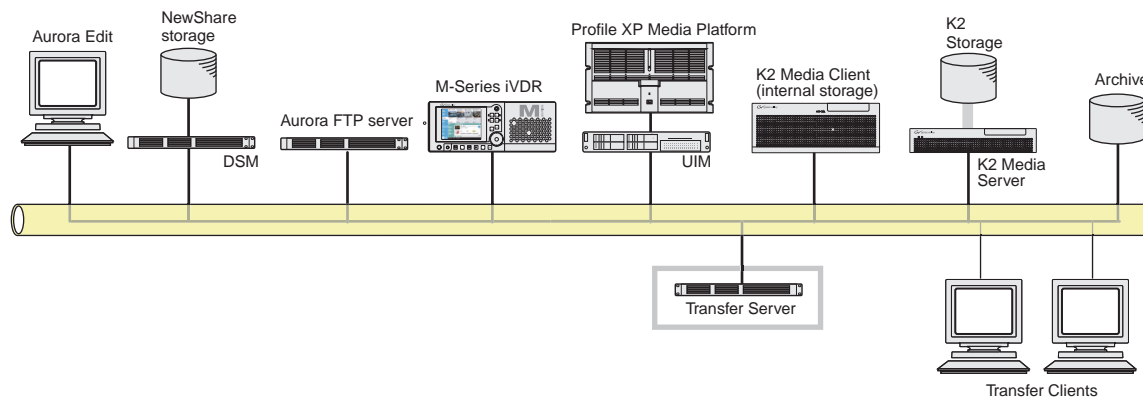
The Transfer product includes the following features:

- Explore and select assets on source and destination devices by browsing or with a simple search.
- Dynamic discovery of new assets.
- Manual Transfer — Select desired asset(s), drag and drop single file or in highlighted blocks from source to desired destination.
- Batch Transfer — Drag and drop selected assets (designated folder, designated EDL, playlist) to create a transfer list.
- Abort or cancel a transfer in progress.
- Displays transfer status from each device, including progress, estimated to complete, and errors.
- Displays asset properties, including size, creation date, timecode, duration, original file format, current file format, data rate, and location of copies of the same asset.
- Supports asset management on K2 Media Clients, K2 Storage System, NewShare,

M-Series iVDR, Profile XP Media Platform (with and without UIM), Grass Valley Open SAN, EMC (Avalon) Archive, SGL FlashNet Archive, and Front Porch Digital DIV Archive.

## System diagram

This diagram illustrates an example network architecture for a Transfer system.



The Transfer system can also be integrated as part of the Aurora Browse system, in which case Aurora Browse platforms, such as the Aurora Browse Server and the MDI Server, provide the functionality of a Transfer Server. If you have a Aurora Browse system, you need only install the Transfer application on a network connected PC and connect to the machine that hosts the ASK software component. Refer to [“Add Aurora Transfer clients”](#) on page 44.



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## ***Installing the Aurora Transfer system***

This chapter provides instructions for installing the hardware and software components that support the Aurora Transfer system.

The instructions in this chapter are as follows:

- [“Rack-mount the Transfer Server” on page 14](#)
- [“About the Transfer Server” on page 14](#)
- [“Cable the Transfer Server” on page 14](#)
- [“Install Aurora Transfer Server software” on page 15](#)

When you are done installing the hardware and software, continue with [Chapter 3, \*Configuring the Aurora Transfer System\*](#) and [Chapter 5, \*Recovery Planning\*](#) to complete the installation of your Aurora Transfer system.

## Rack-mount the Transfer Server

Follow the instructions you received with the rack-mount hardware to install the Transfer Server. One rack-unit spacing is recommended between components for ventilation.

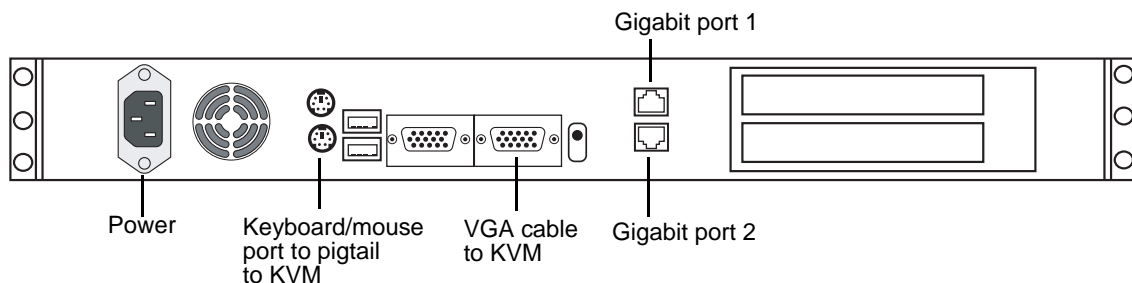
## About the Transfer Server

The central hardware component of the Aurora Transfer system is the Aurora Transfer server. It hosts the following software components:

- A web server, which delivers the Transfer system configuration pages
- The MediaFrame database and Managed Device Interface services for holding and relating assets in the system.

The server connects via the network to source devices, destination devices, and PCs running the Transfer application. Refer to the system diagrams in [Chapter 1, System Overview](#).

## Cable the Transfer Server



Cable as illustrated and as follows:

- Connect Gigabit port 1 to the network.

## Install Aurora Transfer Server software

This section is for installing software on the Transfer Server. To install Transfer application software on client PCs, refer to [“Add Aurora Transfer clients” on page 44](#).

Do not install software on new a Transfer Server. In a new Aurora Transfer system, the Transfer Server comes from the factory with software pre-installed, so you should not need to install the software.

If you need to install Transfer Server software, refer to the instructions listed below. For version-specific instructions, check *Aurora Transfer Release Notes*. Also refer [“Other software installation considerations” on page 16](#).

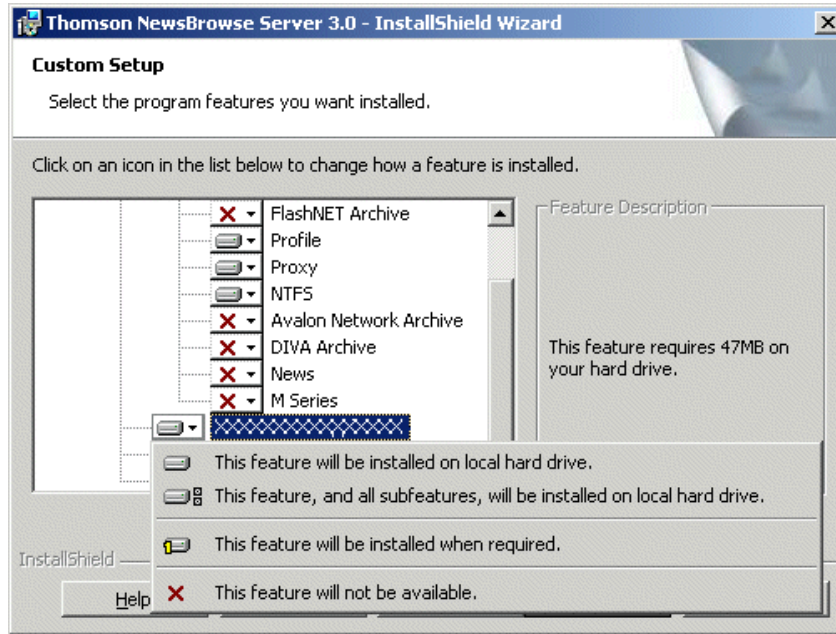
To install Transfer Server software, use the following installation program on the Aurora Transfer Application CD:

- ...\*Server*\*Setup.exe* — Use this setup file to install Aurora Transfer software on the Aurora Transfer server. This is the same installation file as that used for Aurora Browse systems. The following table indicates the software components installed for a Transfer Server.

Install Components	Transfer Server
Core Services	✓
Managed Devices: FlashNet Archive	✓
Profile	✓
Proxy	✓
NTFS	✓
Avalon Network Archive	✓
DIVArchive	✓
News <sup>a</sup>	
M-Series	✓
Ingest	
Router Gateway	

<sup>a</sup>. The News MDI must be installed on the DSM.

To install the software components listed in the preceding table, run the installation program and when you arrive at the Custom Setup screen, do the following:



If a component that you want to install displays a red X, click the component and select **This feature will be installed on local hard drive.**

If a component that you do not want to install does not display a red X, click the component and select **This feature will not be available.**

To upgrade software from a previous version, refer to *Aurora Transfer Release Notes* for version-specific instructions.

**NOTE:** When upgrading Aurora Transfer Server software, read messages and respond carefully. Do not accept the default “Yes” when prompted to delete databases.

## Other software installation considerations

- Before installing the Profile MDI, install Profile client software.
- To support archive functionality for Aurora Transfer on a AuroraShare NAS system, you must install a unique Aurora FTP on a platform somewhere in the system.



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## ***Configuring the Aurora Transfer System***

The topics in this chapter include the following:

- “Establish conventions” on page 18
- “Configure network” on page 21
- “Prepare for core configuration stages” on page 23
- “Configure MediaFrame components” on page 25
- “Configure Archive” on page 35
- “Add Aurora Transfer clients” on page 44

## Establish conventions

The following conventions are recommended to make your Aurora Transfer system easier to work on and understand. Refer to these sections as necessary as you configure your system.

### MDI logical names convention

The Aurora Transfer system uses a Managed Device Interface (MDI) to manage a device that stores media assets. Typically these are the source and destination devices on which media resides, such as Media Servers and archive devices. Each type of device has its own MDI. The MDI software component is hosted on a MDI server, rather than being hosted on the same machine that it manages. In the case of the Transfer system, the Transfer server takes the role of MDI server for all MDIs except the News MDI. For the News MDI, the DSM must be the MDI server.

As you configure your Aurora Transfer system you must create and enter logical names for the MDIs that provide Aurora Transfer functionality. These logical names provide a mapping of the functionality of the standard Aurora Transfer services to the specific machines in your particular system. For this reason you should take care to create logical names that are easy to identify and interpret as they appear in the various configuration pages.

It is especially important that you distinguish between the logical name of a MDI and the hostname of the machine to which the software component relates. In the conventions suggested in this manual, machine names are lower case and logical names are upper case to make this distinction.

Also refer to [“Ports and services mapping” on page 20](#).

The following table demonstrates how logical names for MDIs are mapped to the machines of your Aurora Transfer system and provides a suggested naming convention.

Machine type	Service that manages the machine	MDI/logical name(s)	Comments
Avalon Archive	Thomson Avalon Archive MDI	ARCHIVE1	Most Aurora Transfer systems have but one archive MDI—of the appropriate type for the archive product—that manages their entire archive system.
DIVA Archive	Thomson DIVA MDI		
FlashNet Archive	Thomson FlashNet MDI		
M-Series	Thomson MSeries MDI	M-SERIES1, M-SERIES2, M-SERIES3,...	One logical name is required for each M-Series iVDR that integrates with the Aurora Transfer system.

<b>Machine type</b>	<b>Service that manages the machine</b>	<b>MDI/logical name(s)</b>	<b>Comments</b>
K2	Thomson K2 MDI	K2-Storage1	When this MDI accesses a K2 Storage System, it manages one of the connected K2 Media Clients. The MDI should be named for the K2 Storage System.
		K2-1, K2-2, K2-3,...	When this MDI manages a stand-alone K2 Media Client, there is one MDI for each K2 Media Client. One logical name is required for each stand-alone K2 Media Client system that integrates with the Aurora Transfer system.
News	Thomson News MDI	NEWS1	There is but on News MDI in the system. It manages the AuroraShare NAS. The News MDI must reside on the DSM.
NTFS	Thomson NTFS MDI	NTFS1	There is but one NTFS MDI in the system. It manages NTFS storage on one or more machines—typically the server and the NAS machines.
Profile	Thomson Profile MDI	SAN1	When this MDI manages an Open SAN system, it manages one designated Profile on an Open SAN. One logical name per Open SAN system is required.
		PROFILE1, PROFILE2, PROFILE3,...	When this MDI manages a stand-alone Profile XP system, there is one MDI for each Profile XP. One logical name is required for each stand-alone Profile XP system that integrates with the Aurora Transfer system.

## Ports and services mapping

Aurora Transfer software components run as Windows services, which communicate over designated ports. As you configure the Aurora Transfer system, you must correctly designate port numbers. Topics later in this manual provide specific instructions for entering port numbers on each configuration page. These are the default port numbers. Do not modify or create your own convention for port usage without consulting Grass Valley. Designate ports as specified in the following table:

Services	Port	Comments
Thomson Ask	9010	—
Thomson Asset Manager	9022 and 9023	—
Thomson Avalon Archive MDI	9120	—
Thomson DIVA MDI	9122	—
Thomson FlashNet MDI	9124	—
Thomson Metadata	9014	Not visible on a configuration page
Thomson MSeries MDI	9140	The service manages a number of host processes, one for each M-Series iVDR that is being managed. These host processes require ports 9140 - 9149. Stopping/starting the service stops/starts all of the host processes.
Thomson K2 MDI	9160	The service manages a number of host processes, one for each K2 system that is being managed. These host processes require ports 9160 - 9169. Stopping/starting the service stops/starts all of the host processes.
Thomson News MDI	9150	—
Thomson NTFS MDI	9115	—
Thomson Profile MDI	9130	The service manages a number of host processes, one for each Profile that is being managed. These host processes require ports 9130 - 9139. Stopping/starting the service stops/starts all of the host processes. The version 1.5 default port number for these processes was 8022, with no range
Thomson Proxy MDI	9110	—
Thomson Resolver	9016	Not visible on a configuration page

The Aurora Transfer system also depends upon Microsoft Internet Information Services (IIS) and SQL services, which are installed on the Transfer Server.

## Configure network

Recommended networking strategies are explained in the following sections. Strategies that use host table files are also compatible with the Transfer system. Refer to [“Host table files” on page 21](#).

### Set up IP addresses and name resolution

It is recommended that Aurora Transfer systems use Microsoft DNS for name resolution and have a DNS server. The domain controller should provide this service. If the Aurora Transfer system does not have a domain controller, another machine may be configured to provide this service. Properly configuring all network interfaces is extremely important to make DNS name resolution work correctly.

The network should be set to use dynamic host configuration protocol (DHCP) to assign network IP addresses. All interfaces on this network should be configured to register connections with DNS automatically.

If necessary, the Transfer system will work with a network set up with host tables. Refer to [“Host table files”](#) later in this section. However, you must use care to ensure that all host tables are identical and names are resolved correctly for all devices.

### Configure network settings

Use the instructions in this section to configure network machines, which include the following types:

- Aurora Transfer Server
- Transfer client PCs

You will need the following information from the customer's IT department:

- Verify that the subnet mask for the Aurora Transfer machines should be 255.255.255.0.
- Extra IP addresses for future growth
- The IP address for the DNS server and alternate
- The name of the Domain connected (i.e. *mycorp.com*) if used
- The IP address for the WINS server if applicable

The Transfer system is similar to ContentShare, on the Production network only.

### Host table files

If you can not use Microsoft DNS for name resolution, you can use host table files. These files must be on all network machines. Find host table files at `C:\Windows\system32\drivers\etc`

The following is an example of host table entries. Not shown are entries for Profile systems, UIMs, and other machines on the network. Refer to the documentation for these other machines for host table requirements.

```
#-----
```

```
#General Host Table
#-----

#Aurora Transfer Server

192.168.30.21      iron-transfer-svr

#Aurora Transfer Ethernet Switch

192.168.30.200    iron-transfer-2950-prod-1
```

Host table tips:

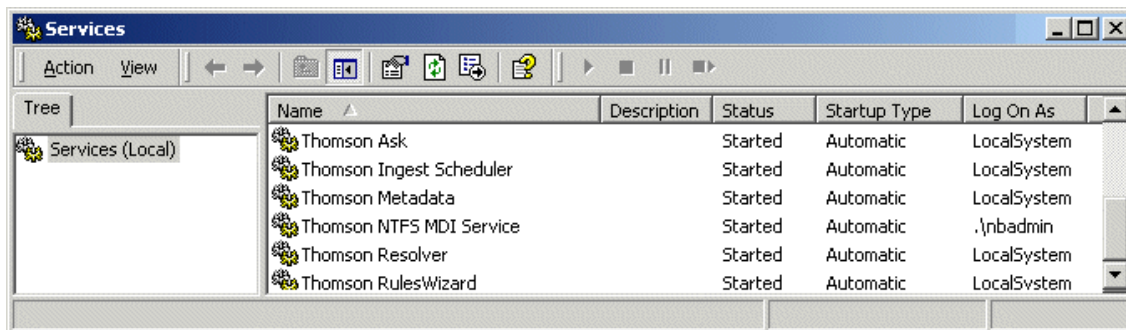
- The Transfer Server IP address need to be resolved using the Client side IP address via DNS lookup, not the host table.
- If the server has a canonical name, the host table for any machine that runs MDIs that are subscribed to by the server must match case for the entire canonical name. E.g., if the server's canonical name is "TRANSFER-SERVER1.mycorp.net", then the host table entry in the MDI server(s) must match; if the entry is "TRANSFER-SERVER1.MYCORP.NET", then it will not work. Pinging will not show the problem. The problem doesn't show up until the MDIs attempt to notify the server.

## Prepare for core configuration stages

Do the following tasks in preparation for the configuration of core system functionality.

### Accessing services

The Transfer Server software components run as Windows services. When you change the configuration for a particular software component through the configuration pages, you must restart that software component's service to put the changes into effect. Click **Start | Settings | Control Panel | Administrative Tools | Services** to access the services. All service names start with "Thomson...", so they group together in the services list.



Refer to [“Ports and services mapping” on page 20](#) for a list of services.

### Accessing system configuration pages

Use Internet Explorer to browse to port 280 of a machine to access its configuration pages.

You must have administrator permissions on the machine. For example, to log on to the configuration pages on the Aurora Transfer server with administrator permissions, use the following:

Username: *root-transfer-svr\nbadmin*

Password: \*\*\*\*\*

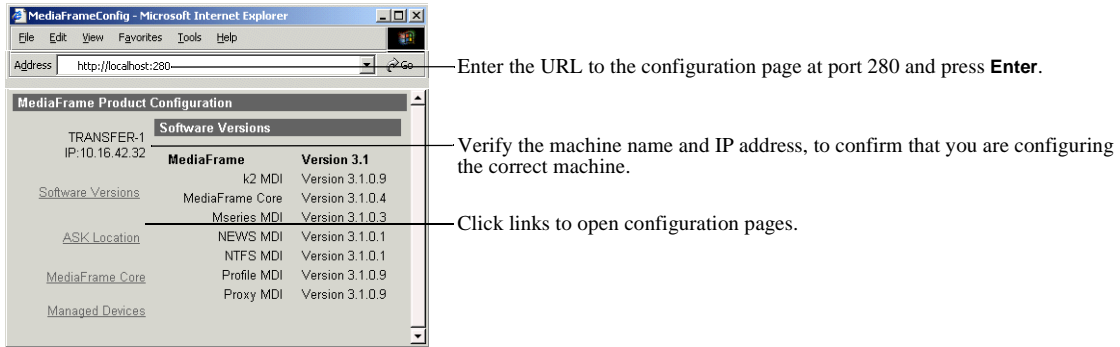
You can access the Transfer Server configuration pages as follows:

- From the local computer, use the following URL:  
`http://localhost:280`
- From a network-connected computer, in the URL replace “localhost” with the network name of the computer hosting the configuration pages. For example, to access the configuration pages on a server named *iron-transfer-svr*, use the following URLs:

`http://iron-transfer-svr:280`

You must have network access to open configuration pages.

To access configuration pages, do the following:



Some pages use Active X controls that require special browser settings. To make these settings, do the following:

1. Open Internet Explorer 6 or higher and click **Tools | Internet Options**. The Internet Options dialog box opens.
2. Click **Security | Local intranet | Custom Level**. The Security Settings dialog box opens.
3. Under “Download signed ActiveX controls”, click **Enable**.



## **Configure MediaFrame components**

MediaFrame components make up the core platform on which Aurora Transfer runs. The primary MediaFrame components that you need to configure are as follows:

- **ASK** — The ASK software component runs on the Aurora Transfer server. It is the central registry for all the software components of the Aurora Transfer system. As software components carry out tasks in a functioning system they regularly refer to the ASK component to establish communication and exchange commands and data. The configuration pages also refer to the ASK component to populate fields and lists and to validate the values you enter as you configure the system.
- **MDIs** — Devices have Managed Device Interfaces (MDIs) which represents the device's assets in a way that is understandable by the other components of the Aurora Transfer system. This allows the Aurora Transfer server to coordinate the activity of the Aurora Transfer system.

In this configuration stage set up logical names for software components (MDIs) that manage devices. This brings the source and destination devices on-line as managed devices.

To configure MediaFrame components, do the following:

- [“Configure Media Frame ASK: Register components” on page 26](#)
- [“Prepare MDI server” on page 27](#)
- [“Configure ASK Location: MDI server” on page 28](#)
- [“Configure Profile MDIs” on page 29](#)
- [“Configure News MDIs” on page 30](#)
- [“Configure K2 MDIs” on page 31](#)
- [“Configure M-Series MDIs” on page 32](#)
- [“Test: MediaFrame stage” on page 33](#)

## Configure Media Frame ASK: Register components

http://localhost:280 → MediaFrameCore → ASK

Open this configuration page locally on the Aurora Transfer server machine.

All Domain names in the Aurora Transfer system must be identical.  
 Port 9010 is required. See [“Ports and services mapping”](#) on page 20.  
 Saves changes. Changes are lost if you leave the configuration page without updating.

For the following settings, use the table below. Add each MDI and/or Encoder required by your system

Click to add an MDI.

Lists currently added MDIs.

Checks MDIs.

Deletes the currently selected MDI.

Always click **Update...** buttons after making changes

To put changes into effect, start or restart the ASK service on the Aurora Transfer server.

For the conventions mentioned in the following table, refer to [“MDI logical names convention”](#) on page 18

When you add an MDI logical name for this type of machine/device...	Select “MDI/Encoder Type”...	Enter “MDI/Encoder Name”...	Enter “Host Name or IP”...	Enter “Port”...	Comments
A K2 Storage System <sup>a</sup>	K2	As per convention.	Hostname of the machine hosting the K2 MDIs. Typically the MDI Server.	9160 - 9169	These are process ports, as explained in <a href="#">“Ports and services mapping”</a> on page 20. Assign numbers in an intentional sequence, so they are easy to match in <a href="#">“Configure K2 MDIs”</a> on page 31.
K2 Media Client - Internal storage (stand-alone)	K2				
Open SAN Profile <sup>b</sup>	Profile	As per convention.	Hostname of the machine hosting the Profile MDIs. Typically the Transfer Server	9130 - 9139	These are process ports, as explained in <a href="#">“Ports and services mapping”</a> on page 20. Assign numbers in an intentional sequence, so they are easy to match in <a href="#">“Configure Profile MDIs”</a> on page 29.
Stand-alone Profile	Profile				
M-Series	MSeries	As per convention.	Hostname of the machine hosting the M-Series MDIs. Typically the Transfer Server	9140 - 9149	These are process ports, as explained in <a href="#">“Ports and services mapping”</a> on page 20. Assign numbers in an intentional sequence, so they are easy to match in <a href="#">“Configure M-Series MDIs”</a> on page 32.

When you add an MDI logical name for this type of machine/device...	Select "MDI/ Encoder Type" ...	Enter "MDI/ Encoder Name"...	Enter "Host Name or IP"...	Enter "Port"...	Comments
Aurora Edit	News	As per convention.	Hostname of the machine hosting the News MDI. This must be the DSM.	Leave field blank. Correct port number is automatically entered on "Add MDI". Refer to <a href="#">"Ports and services mapping" on page 20</a> to verify.	
Archive device	... Archive	ARCHIVE1, as per convention.	Hostname of the machine hosting the archive MDI. Typically this is the Transfer Server		

<sup>a</sup>. For a K2 Storage System, enter one of its connected K2 Media Clients. As per convention, name the MDI for the K2 Storage System.

<sup>b</sup>. Enter only one Profile per Open SAN. As per convention, name the MDI for the Open SAN, rather than for the Profile.

The ASK settings page registers the logical names for the MDIs required by your Aurora Transfer system with the ASK software component, which runs on the Aurora Transfer server.

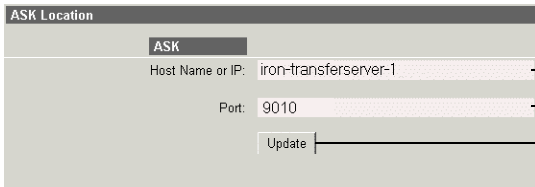
## Prepare MDI server

A machine that hosts a MDI service takes the role of a MDI server. In the Aurora Transfer system, the Transfer Server takes the role of MDI server, so no additional preparation is necessary. The exception is that the MDI server for the News MDI must be the DSM. In this case, ensure that the News MDI is installed on the DSM and that the DSM is communicating on the network with name resolution.

## Configure ASK Location: MDI server

<http://localhost:280> → ASK Location

Access this page locally on the Transfer Server.



Enter the name of the Aurora Transfer Server

Port 9010 is required. See [“Ports and services mapping”](#) on page 20.

Saves changes. Changes are lost if you leave the configuration page without updating.

Always click **Update...** buttons after making changes

It is not necessary to restart a service to put these settings into effect.

This page tells the MDI server (which is the Transfer server) where to look for the ASK service, which runs on the Aurora Transfer server. The function of the ASK is to store the location of the software components in the system, so the components can find one another.

# Configure Profile MDIs

http://localhost:280 → Managed Devices → Profile MDI

Access this page locally on the Transfer server.

- Port 9100 is required.<sup>a</sup>
- All Domain names in the Aurora Transfer system must be identical.
- Saves changes. Changes are lost if you leave the configuration page without updating.
- Select a Profile MDI.
- Enter the hostname of the Profile for the MDI selected above.
- For Open SAN systems, enter here the names of the other Profile XP systems on the Open SAN that are managed by this MDI. Separate hostnames with commas.
- The time that the Profile MDI waits before it informs the Aurora Transfer system that a clip has finished recording. Leave at 2.
- Increment 9130-9139 so each Profile MDI has a unique process port.
- Click to add as an existing managed device. For stand-alone Profile Media Servers, add a MDI for each one. For Open SAN Profile Media Servers, add only one MDI per Open SAN.
- Verify the MDIs currently on-line.
- Click to remove the selected managed device.
- For a Transfer system, do not configure the fields below this point.

Always click **Update...** buttons after making changes  
To put changes into effect, start or restart Profile MDI Service on the MDI server.

<sup>a</sup> Do not change this port number. It is for a service that manages the port 9130-9139 processes.

This page configures the Managed Device Interfaces (MDI) for the Profile Media Servers. As you add Profile MDIs make sure that you associate Profile MDIs and Profile host names correctly.

Multiple Profile MDIs run on a single machine (the Transfer Server), but they each need their own process port number. For this purpose, enter incrementing numbers 9130 - 9139 in the "Port" field. The MDIs and their port numbers must match settings as in "Configure Media Frame ASK: Register components" on page 26. To make the configurations easier to read for troubleshooting purposes, add MDIs sequentially so there is a correlation between the port number and any number in the MDI name. The field increments automatically, or you can manually enter port numbers.

For configuring a basic Transfer system, do not configure transfer targets.

## Configure News MDIs

<http://localhost:280> → Managed Devices → News MIDI

Access this page locally on the DSM.

The screenshot shows the 'News MIDI Settings' web page. It is divided into two sections: 'News MIDI Settings' and 'News System Settings'. The 'News MIDI Settings' section includes a dropdown menu for 'MDI Name' (set to 'NEWS1'), a 'Port' field (set to '9150'), and an 'Asset System Dwell Time (Seconds)' field (set to '120'). The 'News System Settings' section includes 'Database Host Name or IP', 'Conform Server Name or IP', and 'NAS Shared Location' fields. Below the 'NAS Shared Location' field is a detailed note about UNC pathnames and conditions for when they are required. At the bottom of the form is an 'Update' button. Annotations with arrows point to various fields and the 'Update' button, providing instructions and warnings.

Annotations:

- MDI Name: NEWS1 — Select a News MIDI.
- Port: 9150 — Port 9150 is required. See “Ports and services mapping” on page 20.
- Asset System Dwell Time (Seconds): 120 — The time that the News MIDI waits before it informs the Aurora Transfer system that a clip has finished recording. Leave at 2.
- Database Host Name or IP: — Enter the machine that hosts the AuroraEdit database (the DSM).
- Conform Server Name or IP: — Enter the machine that hosts the conform service.
- NAS Shared Location: — Leave blank or enter UNC path to shared storage. See below.
- Update — Saves changes. Changes are lost if you leave the configuration page without updating.

Always click **Update...** buttons after making changes

To put changes into effect, start or restart News MIDI Service on the MIDI server (DSM).

This page configures the Managed Device Interface (MDI) for the AuroraShare system. MediaFrame depends on the News MIDI to make News assets visible across the system.

The V: drive must be mapped on the machine that hosts the News MIDI. By convention, the DSM hosts the News MIDI.

The NAS Shared Location can be left blank for most systems. An example of a system for which the path must be entered is a AuroraShare NAS system whose DSM (the News MIDI host) has been upgraded to Windows 2003 Server. The path is required because of enhanced security in the Windows 2003 Server operating system.

As you configure the News MIDI make sure that you associate the News MIDI and News host names correctly.

## Configure K2 MDIs

http://localhost:280 → Managed Devices → K2 MDI

Access this page locally on the MDI Server.

Select a K2 MDI.

Increment 9160-9169 so each K2 MDI has a unique process port.

Enter a stand-alone K2 Media Client or the one K2 Media Client on a K2 Storage System.

Click to add as an existing managed device.

Verify the MDIs currently on-line.

Click to remove the selected managed device.

The following settings specify K2 systems to which assets can be transferred.

Select the MDI for a K2 system to which assets can be transferred.

Hostname of the K2 system specified above.

Click to add as a transfer target. This makes the K2 system available for selection from the Aurora Browse application as a transfer destination.

K2 systems capable of receiving a transfer.

Click to remove the selected transfer target.

To put changes into effect, start or restart K2 MDI Service on the MDI Server.

This page configures the Managed Device Interface (MDI) for a stand-alone K2 Media Client or one of the K2 Media Servers on a K2 Storage System. MediaFrame depends on the K2 MDI to make K2 assets visible across the system.

As you configure the K2 MDI make sure that you associate the K2 MDI and K2 host names correctly.

Multiple K2 MDIs run on a single machine (the Transfer Server), but they each need their own process port number. For this purpose, enter incrementing numbers 9160 - 9169 in the “Port” field. The MDIs and their port numbers must match settings as in [“Configure Media Frame ASK: Register components” on page 26](#). To make the configurations easier to read for troubleshooting purposes, add MDIs sequentially so there is a correlation between the port number and any number in the MDI name.

For K2 systems, add transfer targets as follows:

- For a K2 Storage System (SAN), the hostname of a K2 Media Server that has the role of FTP server.
- For a stand-alone K2 Media Client, the hostname of the K2 Media Client
- Hostname of a Aurora FTP server. This is required for the Aurora Transfer application to support Aurora/News transfers.

## Configure M-Series MDIs

<http://localhost:280> → **Managed Devices** → **MSeries MIDI** Access this page locally on the Transfer server.

The screenshot shows the 'M-Series MIDI Settings' web interface. It is divided into several sections: 'MDI Settings', 'Add Transfer Target', 'Existing M-Series MDIs', 'Add Transfer Target', and 'Existing Transfer Target'. Annotations with arrows point to specific fields and buttons:

- MDI Name:** M-SERIES2. Annotation: Select a M-Series MDI.
- Port:** 9141. Annotation: Increment 9140-9149 so each M-Series MDI has a unique process port.
- M-Series Host Name or IP:** ivdr-2. Annotation: Enter the M-Series managed by the MDI.
- Add M-Series Managed Device** button. Annotation: Click to add as an existing managed device.
- Existing M-Series MDIs** section shows a table with one entry: M-SERIES1:ivdr-1:9140. Annotation: Verify the MDIs currently on-line.
- Remove M-Series Managed Device** button. Annotation: Click to remove the selected managed device.
- Add Transfer Target** section includes fields for MDI Name, FTP Server Host Name(s) / IP address(es), and an 'Add Transfer Target' button. Annotation: For a Transfer system, do not configure the fields below this point.
- Existing Transfer Target** section includes a 'Remove Transfer Target' button.

Always click **Update...** buttons after making changes

To put changes into effect, start or restart M-Series MIDI Service on the Transfer Server.

This page configures the Managed Device Interface (MDI) for the M-Series iVDR. MediaFrame depends on the M-Series MDI to make M-Series assets visible across the system.

As you configure the M-Series MDI make sure that you associate the M-Series MDI and M-Series host names correctly.

Multiple M-Series MDIs run on a single machine (the Transfer Server), but they each need their own process port number. For this purpose, enter incrementing numbers 9140 - 9149 in the “Port” field. The MDIs and their port numbers must match settings as in “[Configure Media Frame ASK: Register components](#)” on page 26. To make the configurations easier to read for troubleshooting purposes, add MDIs sequentially so there is a correlation between the port number and any number in the MDI name.

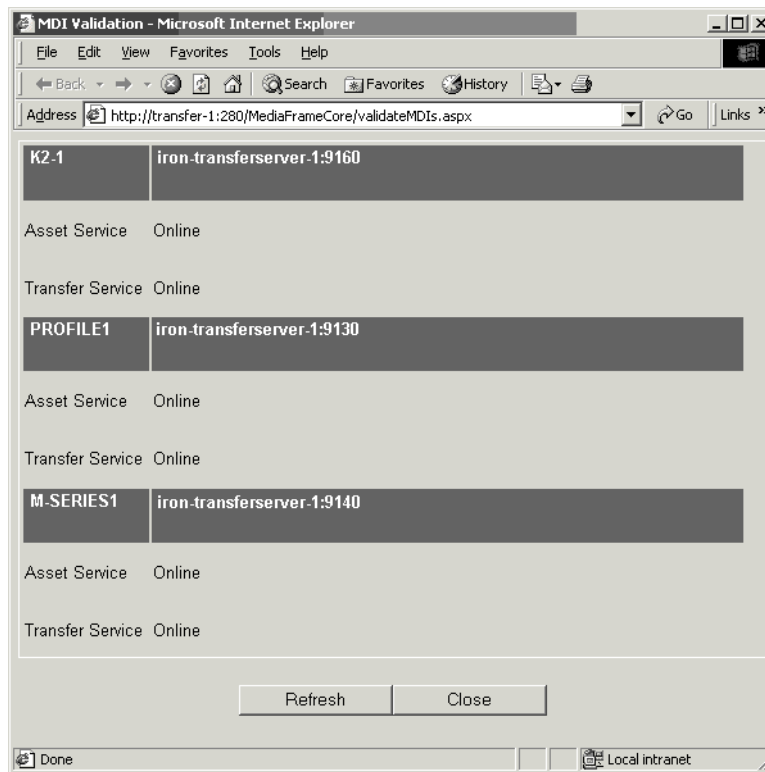


## Test: MediaFrame stage

The following test exercises system functionality exclusive to the MediaFrame core platform. A successful test verifies that the basic configurations are correct.

Run the test as follows:

Under MediaFrame Core | ASK, on the Ask Settings configuration page click **Validate MDIs/Encoders**. The MediaFrame core system checks MDI mappings and devices for inconsistencies. This can take several minutes. A report is displayed.



Make sure there are no errors displayed. To troubleshoot errors, check the following:

- Make sure services are running and report as online.
- Make sure you have configured the correct host name for the MDI service.
- Ping machines to verify network communication.



## **Configure Archive**

To support archive Transfer functionality on a AuroraShare NAS system, you must install a unique Aurora FTP on a platform somewhere in the system.

To configure and test the Archive stage, do the following:

1. [“Add archive MDI” on page 36](#)
2. [“Verify archive preparations” on page 37](#)
3. [“Configure ASK Location: Archive MDI host” on page 40](#)
4. [“Configure Media Frame Core ASK: Archive” on page 40](#)
5. [“Configure Avalon Archive MDI” on page 41](#)
6. [“Configure FlashNet MDI” on page 42](#)
7. [“Configure DIVA MDI” on page 43](#)
8. [“Configure Archive Services.” on page 44](#)

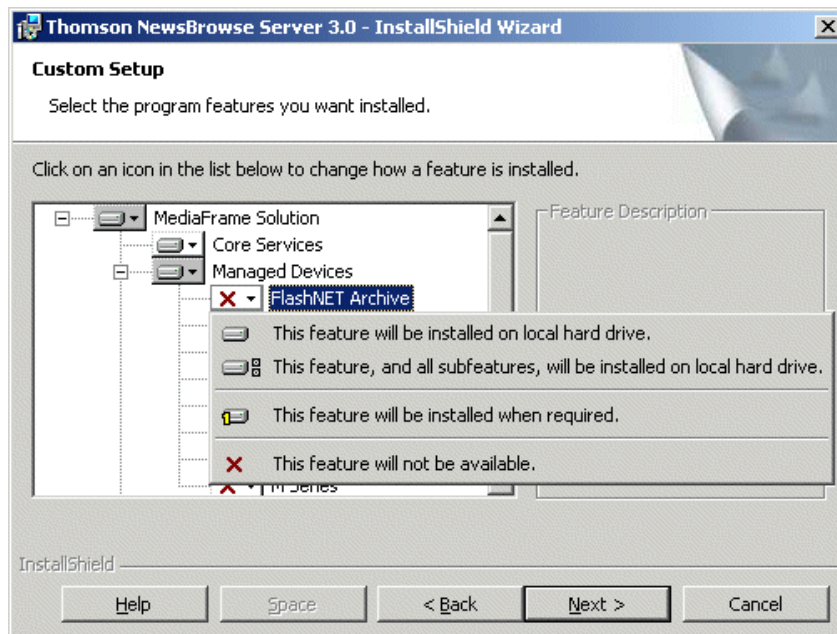
## Add archive MDI

The archive MDI software component runs as a service. The archive MDIs that are available for the different types of archive devices are as follows:

- Avalon Archive MDI — runs as the Thomson Avalon Archive MDI service
- FlashNet MDI — runs as the Thomson FlashNet MDI service
- DIVA MDI — runs as the Thomson DIVA MDI service

The archive MDI software component must be installed on a network connected computer. Similar to the other MDIs in the Aurora Transfer system, the archive MDI should be installed on the Aurora Transfer server.

You can install the archive MDI software component from the Aurora Transfer Server installation program. Select the component for your archive from the Custom setup page.



## Verify archive preparations

If archiving via Fibre Channel from a Profile XP or Open SAN system, be aware that a single Profile XP system provides a maximum of four streams for concurrent transfers. Keep this mind when configuring the archive device for concurrent transfers. If the archive is configured such that it can request more than four streams simultaneously from any single Profile XP system, the additional transfers will error out.

For the type of archive device you use, check the following to verify proper operation with the Aurora Transfer system.

## Avalon archive preparations

Check the following on the machine which runs Avalon IDM Software (Archive):

1. Login to the machine and go to /avalon/aam/utlils
2. Run stataam and verify all services running properly.
3. Make sure host tables are set correctly. Verify for the machine name/IP which IDM will talk to.
4. If archiving from a Profile XP or Open SAN system, make sure the Fiber channel interfaces are configured so that Avalon IDM can talk to the Profiles.

Consider the following when preparing to integrate Avalon archive with Aurora Transfer:

- Avalon archive has no fixed limit for concurrent transfers.

## FlashNet preparations

Check the following on the machine which runs the FlashNet software:

1. Login to the machine.
2. If archiving from a Profile XP or Open SAN system, verify that you can telnet to the Profile XP Ethernet IP address on port 8192 (`telnet keystone2_1e0 8192`).
3. Verify that you can FTP from the FlashNet server to the high-res storage machine:
  - If archiving from a Profile XP or Open SAN, verify that you can FTP from the FlashNet server to the Profile on the Fibre Channel address and login as user *movie*.
  - If archiving from a AuroraShare NAS, verify that you can FTP from the FlashNet server to the AuroraShare NAS on Gigabit Ethernet and login as user *vmfmovie*.
4. Make sure the “FlashNet Socket Listener” and “FlashNet Automation” services are up and running.
5. Use the FlashNet “Jukebox” application to test that a drive can be successfully accessed from FlashNet. Refer to “*User Guide for FlashNet running on Windows NT and Windows 2000 platforms*”.

Consider the following when preparing to integrate FlashNet with Aurora Transfer:

- The FlashNet MDI does not take any user specified name for a full restore. The clips are restored using the original clip name (from archive). The FlashNet MDI does, however, allow a user specified name for a partial restore.
- If archiving from a Profile XP or Open SAN system, take the concurrent transfer limit into consideration. FlashNet's setting for concurrent transfers applies globally to all source/destination pairs. There is no setting on a server-by-server basis. To make the setting for "maximum number of concurrent transfers", you use a file named *C:\.dtool\_env* where you can specify "API\_MAX\_BACKUPS" and "API\_MAX\_RESTORES". The following is an example for an eight drive system:

```
API_MAX_BACKUPS      2
API_MAX_RESTORES     4
```

This example specifies that two concurrent jobs could be used for automation ingest into the archive, four concurrent jobs could be allowed for automation restore of archives, leaving two drives spare for emergency use or another function.

- The FlashNet MDI uses a file cache to support asset functionality. As the FlashNet device does not have any support for file system updates, the FlashNet MDI assumes that the MDI is the only gateway to the entire FlashNet file system. Any changes made outside the scope of the MDI will not be reflected in MDI immediately.
- Renaming of an asset is not supported in FlashNet.
- The FlashNet server installation must have the GENERATE UNIQUE NAME entry set to FALSE. Use *Configurator.exe* for FlashNet server configuration.
- A restore operation always defaults to highest "Time Critical" priority and archive operation defaults to "normal" priority.

### DIVA preparations

Check the following on the machine which runs DIVA software:

1. Login to the machine.
2. Verify that you can FTP from the DIVA server to the machine with the high-res online material:
  - If archiving from a Profile XP or Open SAN, verify that you can FTP from the DIVA server to the Profile on the Ethernet IP address and login as user *movie*.
  - If archiving from a AuroraShare NAS, verify that you can FTP from the DIVA server to the AuroraShare NAS on Gigabit Ethernet and login as user *vmfmovie*.

Consider the following when preparing to integrate DIVA with Aurora Transfer:

- The DIVA MDI does not take any user specified name for a full restore. The clips are restored using the original name (from archive). The DIVA MDI does, however, allow a user specified name for a partial restore.
- DIVA has no fixed limit for concurrent transfers.
- If archiving from a Profile XP or Open SAN system, take the concurrent transfer limit into consideration. DIVA's setting for concurrent transfers applies to specific source/destination pairs. With the configuration utility/tool you can specify the concurrency limit on a server-by-server basis.

- The DIVA MDI makes an the assumption that the MDI is the only gateway to the entire DIVA file system. Any changes made outside the scope of the MDI will not be reflected in MDI immediately.
- Renaming of an asset is not supported in DIVA.
- A restore operation always defaults to highest “Time Critical” priority and an archive operation defaults to “normal” priority.
- The source name specified in the DIVA configuration utility must be the same as the host table name of the machine with high-res online material.

### **Network connectivity - all archive types**

To test network connectivity, ping all machines from all machines.

If archiving to/from a AuroraShare NAS, ping these machines on the GigaBit network:

- Aurora Transfer Server
- The machine hosting the News FTP service
- Archive machine
- The AuroraShare NAS system

If archiving to/from Profile XP/Open SAN systems, ping these machines on the GigaBit network:

- Aurora Transfer Server
- Archive machine
- All Profile XP or Open SAN systems from/to which media is archived/restored

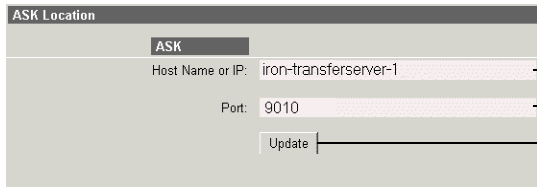
If archiving to/from Profile XP/Open SAN systems, also use Fibre Channel IP addresses and ping these machines:

- Archive server
- All Profile systems from/to which media is archived/restored

## Configure ASK Location: Archive MDI host

<http://localhost:280> → ASK Location

Open this page locally on the machine that hosts the Archive MDI.



Enter the name of the Aurora Transfer server

Port 9010 is required. See [“Ports and services mapping”](#) on page 20.

Saves changes. Changes are lost if you leave the configuration page without updating.

Always click **Update...** buttons after making changes

It is not necessary to restart a service to put these settings into effect.

This page tells the Archive MDI host where to look for the ASK service, which runs on the Aurora Transfer server. If the Archive MDI host is the Aurora Transfer Server, this configuration has likely already been done.

## Configure Media Frame Core ASK: Archive

Make sure the Archive MDI is registered with the ASK software component, as explained in [“Configure Media Frame ASK: Register components”](#) on page 26.



## Configure Avalon Archive MDI

<http://localhost:280> → Managed Devices → Avalon MDI

Open this page locally from the Avalon Archive MDI host.

**MDI Configuration**

Host Name: muskrat-idm — Name of the Avalon Archive machine. Append *-idm* to the end of the name. This name (with *-idm* appended) must also be in the host table.  
[Host name must have -idm appended to it (eg. 'archive-idm', where 'archive' is the name of the Server). Note: this must be a Host and not an IP Address.]

Port: 9120 — Enter **9120**. See “Ports and services mapping” on page 20.

**MDI Settings**

Padding (in Seconds): 2 — Adds media to the clip to ensure correct long GOP structure. Leave at 2.

Number of Instances: 1 — The number of archive devices controlled by the MDI.

Partial Restore:  — Select if using partial restore feature.

Update — Saves changes. Changes are lost if you leave the configuration page without updating.

**FTP Server Settings**

The following settings define FTP for archive sources/destinations.

Load Balancing:  Provided by Managed Device — Select **Provided by Managed Device**. Requires netsem configuration on Avalon. The remainder of this page is disabled.<sup>a</sup>  
 Round-robin — -OR- Select **Round-robin**. Requires configuration in the following fields<sup>b</sup>:

MDI Name: [dropdown] — Select the News MDI name.

FTP Server Host Name(s)/ IP Address(es): [text field] — Enter the hostname of the machine hosting the News FTP service. If multiple hostnames, enter with commas separating.<sup>c</sup>  
[If more than one FTP Server, enter Host Names separated by commas (eg., FTPServer1, FTPServer2, FTPServer3, ...).]

Add — Adds a FTP server as a source/destination for archive operations.

Configured FTP Servers: [table] — Currently added FTP servers.

Remove — Deletes the currently selected device.

Always click **Update...** buttons after making changes

To put changes into effect, start or restart the Thomson Avalon Managed Device service.

- <sup>a</sup> With Avalon configuration, you define FTP Servers and load balance when you configure netsem, so it is not necessary to enter any information on this page.
- <sup>b</sup> If you do not use Avalon configuration, you must define FTP servers and load balance on this page.
- <sup>c</sup> This defines the load balancing. The order of servers entered here is the order in which the MDI seeks an open channel for an archive job.

Open this page locally on the Transfer Server. In this example settings are shown for archiving to/from a AuroraShare NAS. This page tells the Avalon Archive MDI where to look for FTP transfer of high-res material.

Typically load balancing is configured using Round Robin on this page. If load balancing is provided by the managed device, when configuring netsem, make sure the netsem FTP server logical name matches the same FTP server MDI name.

## Configure FlashNet MDI

<http://localhost:280> → **Managed Devices** → **FlashNet MDI** Open this page locally from the FlashNet MDI host.

The screenshot shows the 'Flashnet MDI Settings' web interface. It is divided into several sections: 'MDI Configuration', 'MDI Settings', 'FTP Server Settings', and 'Remove FTP Server Settings'. Annotations with arrows point to various fields and buttons, providing instructions on how to use them. The 'MDI Configuration' section includes fields for 'MDI Name' (set to 'Archive 1') and 'Port' (set to '9124'). The 'MDI Settings' section includes a field for 'Flashnet Server Host Name or IP' (set to 'nb-flashnet-1') and an 'Update' button. The 'FTP Server Settings' section includes 'Load Balancing' options (radio buttons for 'Provided by Managed Device' and 'Round-robin'), an 'MDI Name' field, and an 'FTP Server Host Name(s)/IP Address(es)' field. Below this is an 'Add' button. The 'Remove FTP Server Settings' section includes a 'Remove' button. A note at the bottom states 'Always click Update... buttons after making changes'.

The name of the FlashNet MDI.

Enter **9124**. See “Ports and services mapping” on page 20.

Name or IP address of the FlashNet machine.

Saves changes. Changes are lost if you leave the configuration page without updating.

The following settings define FTP for archive sources/destinations.

Load balancing settings are disabled as only Round Robin is supported.

Select the MDI name for the News MDI.

Enter the hostname of the machine hosting the News FTP service.

Adds a FTP server as a source/destination for archive operations.

Currently added FTP servers.

Deletes the currently selected device.

Always click **Update...** buttons after making changes

Open this page locally on the machine that hosts the FlashNet MDI software component.

This page tells the FlashNet MDI where to look for FTP transfer of high-res material. In this example settings are shown for archiving to/from a AuroraShare NAS. For AuroraShare NAS systems, archive transfers are handled by a single FTP server.

## Configure DIVA MDI

http://localhost:280 → Managed Devices → DIVA MDI

Open this page locally from the DIVA MDI host.

**MDI Configuration**

- MDI Name: Archive 1 — Name of the DIVA MDI.
- Port: 9122 — Enter **9122**. See “Ports and services mapping” on page 20.

**MDI Settings**

- DIVA Host Name or IP: nb-diva-1 — Name of IP address of the DIVArchive machine.
- DIVA Manager Port: 9000 — The port at which DIVA Manager listens for any active connection. By default this port is set to 9000.

**Disk Array Names:** Online-storage — Specify the name of the disk arrays that are currently configured with the DIVA system.<sup>a</sup>

Timeout: 180 — The timeout value that controls any communication with the DIVA manager. Default value is set to 180 seconds.  
(Number of seconds the MDI will try to connect before timing out)

Update — Saves changes. Changes are lost if you leave the configuration page without updating.

**FTP Server Settings**

The following settings define FTP for archive sources/destinations.

Load Balancing:  Provided by Managed Device  Round-robin — Load balancing settings are disabled as only Round Robin is supported.

MDI Name: — Select the News MDI name.

FTP Server Host Name(s)/IP Address(es): — Enter the hostname of the machine hosting the News FTP service.  
[If more than one FTP Server, enter Host Names separated by commas (eg., FTPServer1, FTPServer2, FTPServer3, ...)]

Add — Adds a FTP server as a source/destination for archive operations.

**Remove FTP Server Settings**

Currently added FTP servers.

Configured FTP Servers: — Deletes the currently selected device.

Always click **Update...** buttons after making changes

<sup>a</sup> An array designates a collection of disks designated by their name as they are declared in the DIVArchive configuration.

Open this page locally on the machine that hosts the DIVA MDI software component.

This page tells the DIVA MDI where to look for FTP transfer of high-res media assets. In this example settings are shown for archiving to/from a AuroraShare NAS. For AuroraShare NAS systems, archive transfers are handled by a single FTP server.

## Configure Archive Services.

http://root-nb-svr-n:280 → Aurora Transfer Application → Archive Services

The screenshot shows the 'Archive Services Settings' window. It has a 'Restore Location' section with fields for 'Display Name' (Media NAS), 'MDI Name' (NEWS1), 'Storage Location' (V:/Restore), and a checked 'Enable Mirrored Destination for this Restore Location' checkbox. Below this are 'Mirrored MDI Name' (NEWS2) and 'Mirrored Storage Location' (V:/Restore) fields, and an 'Add Restore Location' button. An 'Existing Restore Locations' list contains 'Media NAS, NEWS1, V:/Restore'. A 'Remove Restore Location' button is at the bottom. Annotations with arrows point to each field and button, explaining their purpose.

Restart the Aurora Transfer application to put changes into effect.

<sup>a</sup>: Profile location lists are automatically populated by reading bins and volumes, as in Media Manager, from the Profile whose MDI is selected from the field above.

This page tells the Archive MDI where to place high-res assets as they are restored from the archive device.

When you select “Enable Mirrored Destination...”, you can then enter the MDI and location for the mirrored high-res system. This allows you to define the pair of mirrored systems as a single restore location. When this single location is selected in the Aurora Transfer application, clips are restored or deleted on both high-res systems simultaneously.

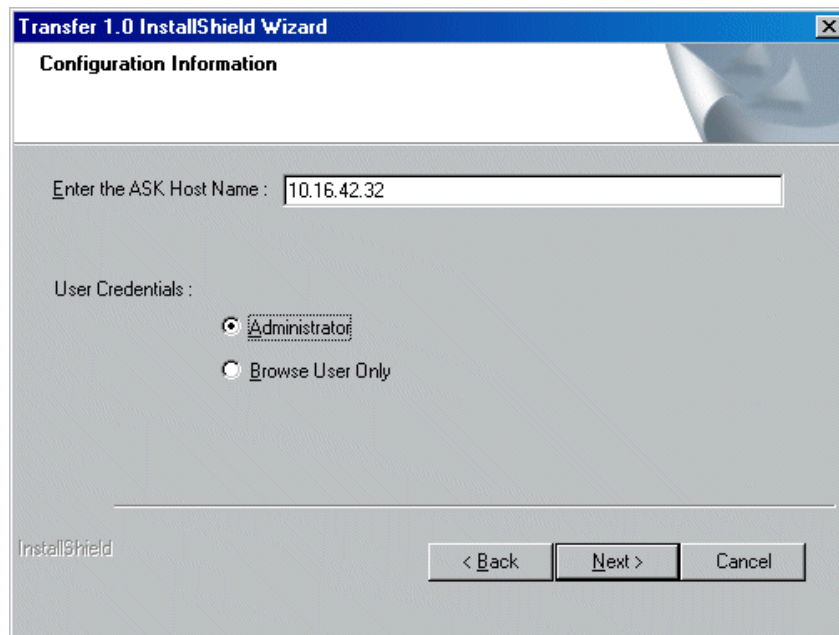
## Add Aurora Transfer clients

Select one or more PCs on which to install the Transfer application. The requirements for a Transfer client PC are as follows:


- Windows XP
- Pentium 4 processor
- Microsoft .NET Framework 1.1
- Network access to the Aurora Transfer server

To install the Transfer application, do the following:

1. Insert the Aurora Transfer Application CD.
2. Open *setup.exe*.
3. Follow on-screen instructions, clicking **Next** and **Yes**.



4. When you arrive at the Configuration Information page, enter the IP address or name of the Transfer Server. In the Transfer system, the ASK software component is hosted by the Transfer Server. If you have not yet installed and configured the Transfer Server, you can enter any text for now to enable the Next button. You can configure the ASK host name in the Transfer application later.
5. Select the user credentials as follows:
  - Administrator — With this option, all operations are available in the Transfer application.
  - Browse User Only — With this option, the following operations are not available in the Transfer application:
    - Delete
    - Rename
    - Create (bin)
    - Cut/Paste.
6. Click **Next** and **Finish** to complete the installation wizard.

7. Find the Transfer application shortcut  on the Windows desktop.

Refer to the next chapter [“Using the Transfer application”](#) for operational procedures.




---

## ***Using the Transfer application***

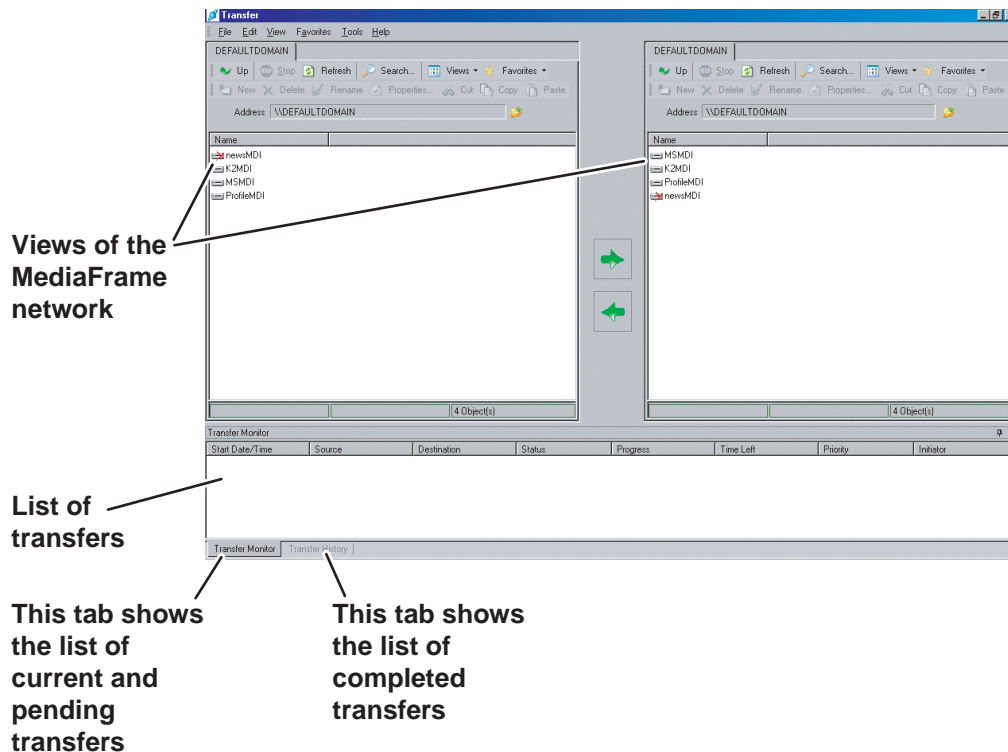
The following topics provide instructions for using the Transfer application to manage media assets on source and destination devices:

- [“Opening the Transfer application”](#)
- [“Browse user restrictions”](#)
- [“Connecting to ASK”](#)
- [“About the MediaFrame network”](#)
- [“Browsing media assets”](#)
- [“Modifying media assets and folders”](#)
- [“Transferring media assets”](#)
- [“Searching media assets”](#)
- [“Viewing the application log”](#)

## Opening the Transfer application

To open the Transfer application, double-click the Transfer shortcut  on the Windows desktop. The Transfer application opens.

The following illustration identifies the primary information displayed in the Transfer application:



Make sure that you allow adequate screen space so the Transfer application can open with its full width displayed. Sizing the application smaller causes controls to be hidden.

## Browse user restrictions

If the Transfer application was installed as “Browse User Only”, the following operations are not available:

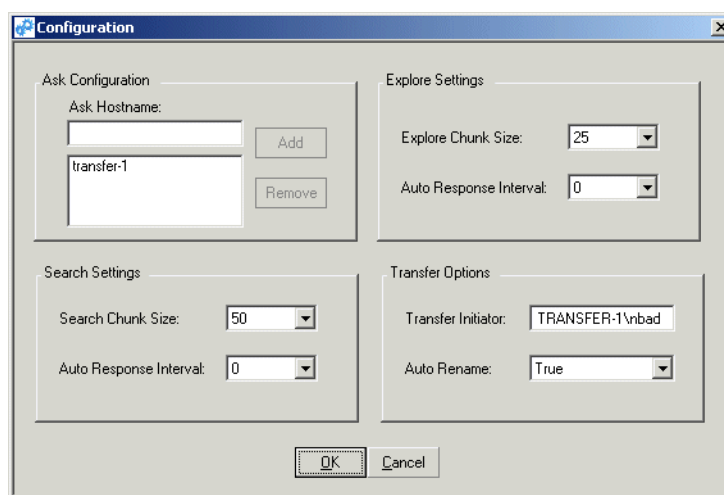
- Delete
- Rename
- Create (bin)
- Cut/Paste.



## Connecting to ASK

When the Transfer application opens, if it cannot communicate with the ASK software component, a "...ASK is not reachable..." message is displayed. ASK provides to the Transfer application all the information it needs about each managed device. In the Transfer system, the ASK software component is hosted by the Transfer Server. To connect the Transfer application to ASK on the Transfer Server, do one of the following:

- When you install the Transfer application, on the Configuration Information page enter the IP address or hostname of the Transfer Server or other computer that hosts the ASK software component.
- In the Transfer application click **Tools | Configuration**. The Configuration dialog box opens.



For the ASK location, enter the name of the Transfer Server or other computer that hosts the ASK component. You can also remove the current ASK location and add a different ASK location from this dialog box. Click **Add**, then **OK** to save settings and close.

Refer to [“Configuring the Transfer application” on page 62](#) to make other selections in the Configuration dialog box.

## About the MediaFrame network

While the MediaFrame network uses a standard Windows Ethernet network for data transport, the MediaFrame network is not a Windows network. The MediaFrame network is a functional extension of the MediaFrame platform. This platform is a group of software components that interact to provide the ability to manage media that resides on devices of different types. These devices are termed “managed devices” in the context of the MediaFrame platform. The MediaFrame network is made up of these managed devices.


## Browsing media assets

Use the following procedures to navigate among the devices of the MediaFrame network and view media asset information.

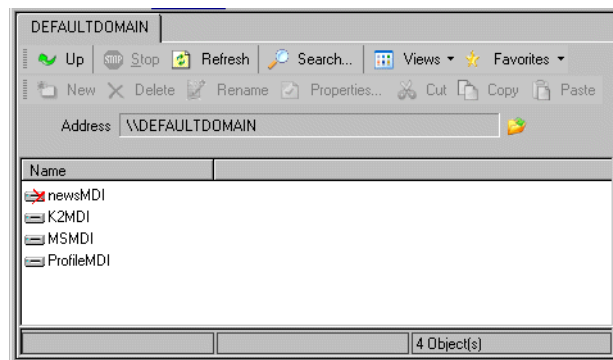
- “Navigating the MediaFrame network”
- “Saving and using locations as Favorites”
- “Viewing properties”
- “Changing the display of the MediaFrame network”

## Navigating the MediaFrame network

The right and left panes of the Transfer application allow identical access to the MediaFrame network. Double-click icons to open networks, domains, and managed devices, which gives you access to the folders that contain the media assets. Click the

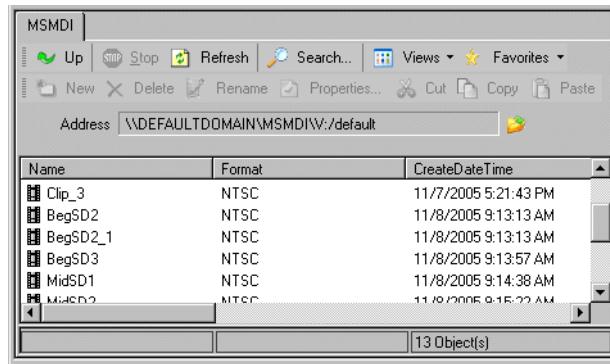
Up button  to move up the hierarchy.

Managed devices are displayed as a detailed list as follows:




This list represents the MediaFrame Managed Device Interfaces (MDIs) currently configured. The names displayed are the MDI names, not the hostname of the device itself. Typically there is one MDI for each physical device, but in some cases one MDI manages multiple physical devices. Keep this in mind as you open MDIs.

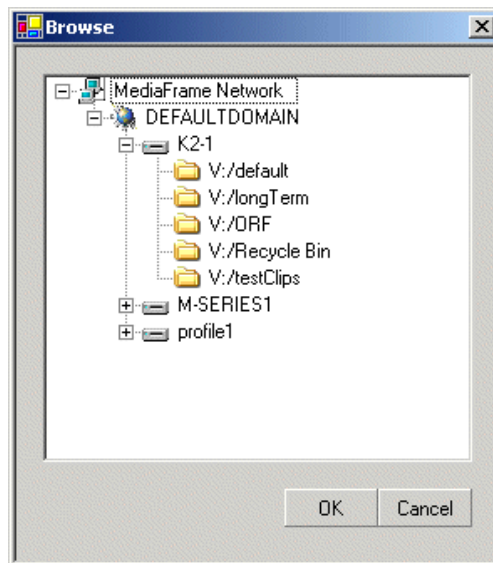
When you open MDIs, folders are displayed. These folders represent the bins and/or directories on the managed device or devices. You can open folders to display media assets. Media assets are displayed as a detailed list as follows:



In the detailed list view, you can click column heads to re-sort the list of folders or media assets.

You can arrange columns and otherwise modify the view of assets, as explained in [“Changing the display of the MediaFrame network”](#) on page 52.

To browse a hierarchical tree view, click the **Browse** button.  The Browse dialog box opens.



Select a node and click **OK**. The pane in the main application window opens to the selected location.

## Saving and using locations as Favorites

1. Navigate to a frequently used location.
2. Click **Favorites | Add To Favorites**. The location is added to the Favorites list for both the left and right side views of the MediaFrame network.
3. When next you want to go to that location, click the **Favorites** button and select the

location from the list.

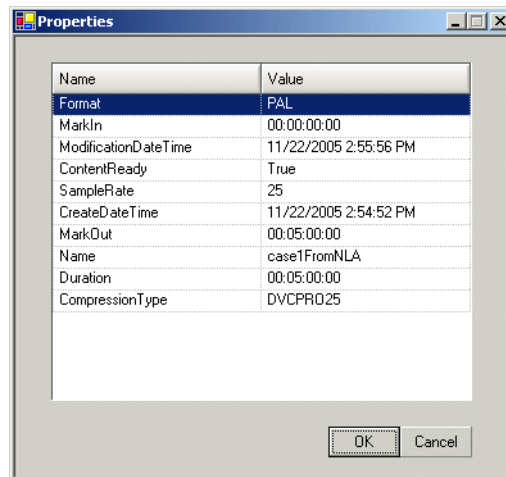
4. To clear the list of Favorites, click **Favorites | Clear Favorites**. All Favorites are removed from the list for both the left and right side views of the MediaFrame network.

## Viewing properties

To view properties, select a media asset or a folder and do one of the following:

- Right-click and select **Properties**.
- Click the **Properties** button.
- Click **File | Properties**.
- Press **F4**.

The Properties dialog box opens.



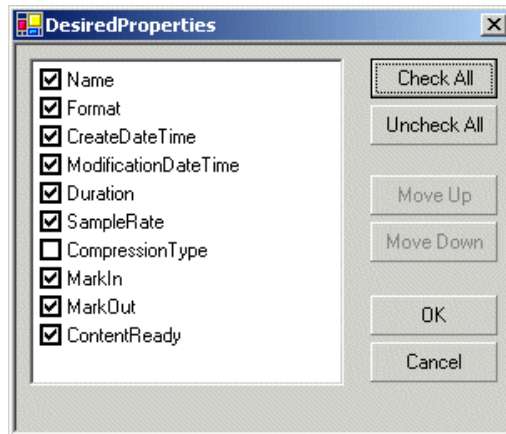
You can click column heads to re-sort the list of properties.

## Changing the display of the MediaFrame network

In the toolbar click **Views** and select the way you want the network entities displayed. You can choose to display as follows:

- Icons
- List
- Details

In a list view, right-click one of the column heads and select **Column Manager**. The Column Manager dialog box opens.



Select or de-select columns and move them up or down the list to create the arrangement of columns you desire.

## Transferring media assets

Use the following procedures to control the movement of media between managed devices.


- [“Initiating a transfer”](#)
- [“Initiating multiple transfers”](#)
- [“Using the Transfer Information window”](#)
- [“Managing transfers”](#)
- [“Viewing completed transfers”](#)

### Initiating a transfer

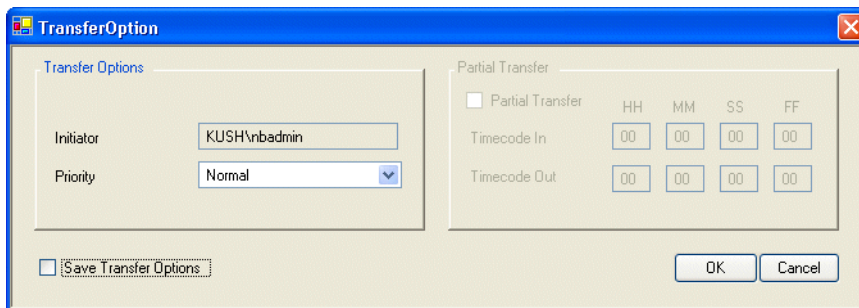
To transfer media assets from one location to another, do the following:

1. Verify or change the currently configured transfer options as follows:
  - a. Click **Tools | Configuration**. The Configuration dialog box opens.
  - b. In the Transfer Options area, configure the Transfer Initiator field if desired. This sets the user name attributed as the initiator of transfers.
  - c. In the Transfer Options area, configure the Auto Rename field if desired. When set to True it enables the Transfer application to automatically rename a transferred asset if necessary. Also refer to [“Configuring the Transfer application”](#) on page 62.
2. Select the source media asset or assets you intend to transfer in one of the following ways:
  - In either the left side or the right side view of the MediaFrame network, select the source media asset or assets.

- Do a search and select the source media asset or assets in the Search dialog box. Refer to “[Searching media assets](#)” on page 59.
3. Use Ctrl + Click or Shift + Click to select multiple assets. If you select multiple assets, you will initiate multiple transfers. Refer to the next section “[Initiating multiple transfers](#)”.
  4. In the tree view, navigate to the folder that is the destination for the transfer as follows:
    - If you selected the source assets in the MediaFrame network view, find your destination in the opposite pane.
    - If you selected the source assets in the Search dialog box, your destination can be in either the right pane or the left pane of the MediaFrame network view.
  5. To initiate the transfer, use one of the following methods:

- Drag and drop from source to destination. This initiates the transfer as a copy operation. This is the only method that works if you selected the source assets in the Search dialog box.
- Click the arrow that points from the source to the destination.  This initiates the transfer as a copy operation.
- Use the Windows clipboard, with Copy/Paste initiating a copy operation and Cut/Paste initiating a move operation. Your options for Windows clipboard functions are as follows:
  - Use the right-click pop-up menu
  - Use Edit menu
  - Use keyboard shortcuts: Ctrl + C = Copy; Ctrl + X = Cut; Ctrl + V = Paste.
- You can also drag and drop from the Transfer application window to the application window of other Aurora applications. Refer to release notes for supported applications.

6. As the transfer initiates, the Transfer Options dialog opens.



If desired you can change the settings for the transfer as follows:

- Change the priority. This affect the way the transfer is sorted in the transfer

queue if there are multiple simultaneous transfers.

- If the transfer source is a archive device that supports partial restore, you can select and configure the partial transfer settings. Do so according to the portion of the media asset you are restoring.
- Select **Save Transfer Options** if you want these same settings to apply to future transfers with the same source and destination.

Click **OK** to save settings (if modified) and close the dialog box.

7. Click the **Transfer Monitor** tab and monitor transfer progress. When the Status column reports Done, the transfer is successful.
8. To move a completed transfer item to the Transfer History tab, right-click the row and select **Move Items to History**.

## Initiating multiple transfers

With the Transfer application you can have multiple transfers occurring simultaneously. However, most device-types have a limit as to how many concurrent transfers the device can support. Generally the limit is four transfers per server. Some devices, such as archive devices, have a limit that is lower. Be aware of these limits as you initiate transfers. Once the limit of concurrent transfers is reached on a device, one of the following occurs, depending on the type of transfer and the type of device:

- Additional transfers are added to a queue of transfers and become pending transfers.
- FTP transfer requests that are not queued can fail. A “System out of resources” message is displayed.

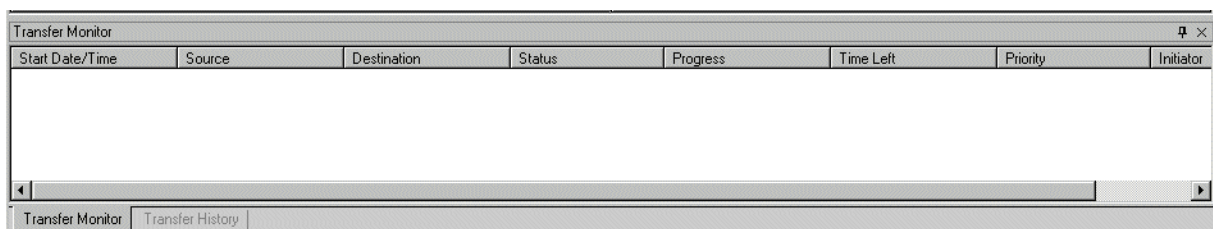
Refer to [“Managing transfers” on page 56](#) for more information on pending transfers.

You can initiate multiple transfers in the following ways:

- Select multiple assets on one device as the source for a transfer. Each source asset selected becomes an individual transfer.
- Initiate a transfer as in the preceding procedure [“Initiating a transfer”](#), and then while that transfer is underway, initiate one or more additional transfers.

## Using the Transfer Information window

The Transfer Information window is at the bottom of the Transfer application interface. This window allows you to manage current transfers, to manage pending transfers, and to view a list of completed transfers.



The following controls are available for the Transfer Information window:

- To close the Transfer Information window, click the **X** control on the right end of the title bar.
- If the Transfer Information window is not currently displayed, click **View | Information Window** to open it.
- Double-click the title bar of the Transfer Information Window to open it as a new, separate window. Double-click the title bar again to re-dock the Transfer Information Window at the bottom of the Transfer application interface window. To disable this separate window feature, click the pin icon on the right end of the title bar.
- Click column heads to resort rows.
- Select the Transfer Monitor tab to manage current and pending transfers, or select the Transfer History tab to view a list of completed transfers. If one of these tabs is not available, close the Transfer Information window and then re-open it.
- To move a completed transfer item from the Transfer Monitor tab to the Transfer History tab, right-click the row and select **Move Items to History**.

## Managing transfers

Use the Transfer Monitor tab to manage current and pending transfers.

Start Date/Time	Source	Destination	Status	Progress	Time Left	Priority	Initiator
12/6/2005 4:11:07 PM	DEFAULTDOMAIN/M...	DEFAULTDOMAIN/K...	TRANSFERRING	58 %	00:01:44	Normal	TRITON_ENG\hadley
12/6/2005 4:13:21 PM	DEFAULTDOMAIN/M...	DEFAULTDOMAIN/K...	TRANSFERRING	67 %	00:00:04	Normal	TRITON_ENG\hadley
12/6/2005 4:13:26 PM	DEFAULTDOMAIN/M...	DEFAULTDOMAIN/K...	TRANSFERRING	20 %	00:00:19	Normal	TRITON_ENG\hadley

You can perform the following operations:

- To delete a transfer currently underway, right-click the transfer and select **Cancel Transfer**.

## Viewing completed transfers

Use the Transfer History tab to view a list of completed transfers.

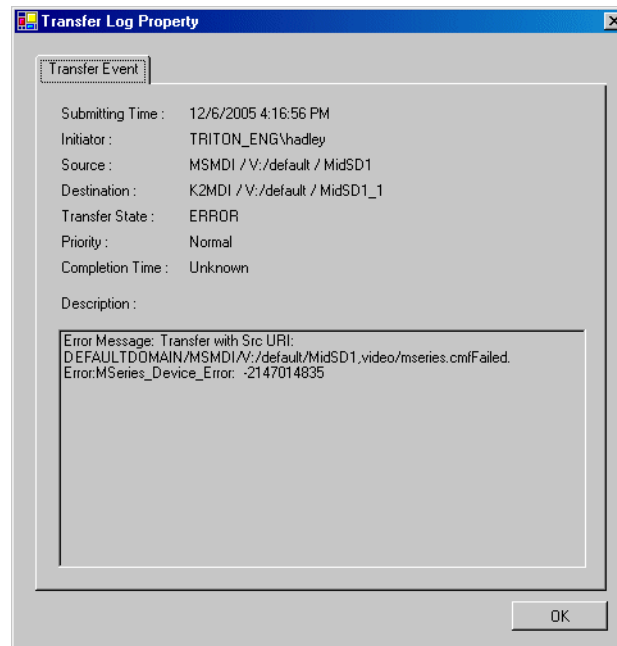
Start Date/Time	Source	Destination	Status	Priority	Initiator	Time Taken
12/6/2005 4:13:21 PM	DEFAULTDOMAIN/MSM...	DEFAULTDOMAIN/K2MD...	DONE	Normal	TRITON_ENG\hadley	00:00:19
12/6/2005 4:13:26 PM	DEFAULTDOMAIN/MSM...	DEFAULTDOMAIN/K2MD...	DONE	Normal	TRITON_ENG\hadley	00:00:14
12/6/2005 4:11:07 PM	DEFAULTDOMAIN/MSM...	DEFAULTDOMAIN/K2MD...	DONE	Normal	TRITON_ENG\hadley	00:04:09

To move a completed transfer item from the Transfer Monitor tab to the Transfer History tab, right-click the row and select **Move Items to History**.

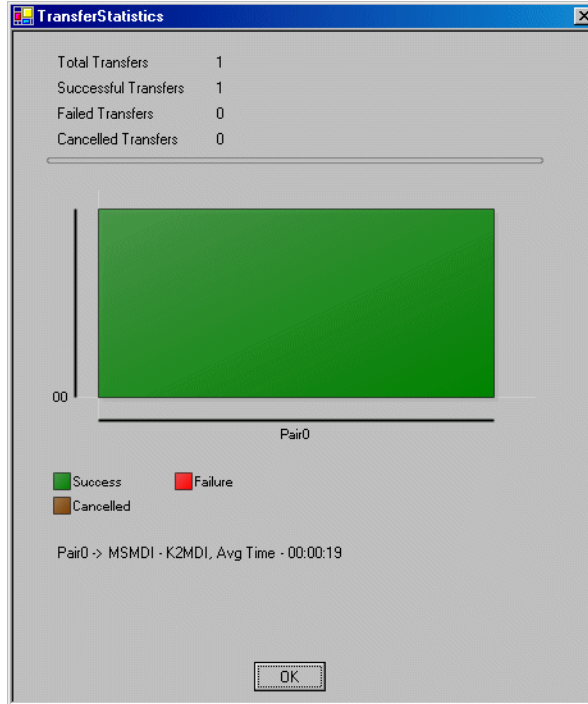


You can perform the following operations:

- To resort the list, click column heads.
- Double-click a transfer to open the Transfer Log Property dialog box. This dialog box displays transfer information. If there was a transfer error, the error information is displayed.



- Right-click a transfer and select **Show Statistics** to open the Transfer Statistics dialog box.



To remove completed transfers from the list, right-click a row and select **Clear Items**. All completed transfers are removed from the Transfer History tab.

## Modifying media assets and folders

Use the following procedures to modify media assets and folder. The Transfer application must be installed with administrator credentials for these tasks to be available.

- [“Renaming an asset or a folder”](#)
- [“Deleting an asset or a folder”](#)
- [“Creating a new folder”](#)

### Renaming an asset or a folder

To rename an asset or a folder, do one of the following:

- Right-click a media asset or a folder and select **Rename**.
- Select a media asset or a folder and click the **Rename** button.
- Select a media asset or a folder and click **File | Rename**.
- Select a media asset or a folder and press the **F2** key.

The name of the media asset or folder becomes editable. Modify the name and then press **Enter** or click off the name to put the change into effect.

## Deleting an asset or a folder

If deleting a folder, you must first delete all the assets in that folder, as the Transfer application allows only empty folders to be deleted.

To delete an asset or a folder, do one of the following:

- Right-click a media asset or a folder and select **Delete**.
- Select a media asset or a folder and click the **Delete** button.
- Select a media asset or a folder and click **File | Delete**.
- Select a media asset or a folder and press the **Delete** key.

The media asset or folder is deleted.

## Creating a new folder

You can create new folders at the root of the managed device. Some devices also allow you to create new folders in other locations in the folder hierarchy of the managed device. This feature is enabled in the Transfer application according to what the device allows.

To create a new folder, do the following:

1. Navigate to a location in which creating a new folder is allowed.
2. Do one of the following:
  - Right-click in the location and select **New**.
  - Click the **New** button.
  - Click **File | New**.

The folder appears.

3. Modify the folder name and then press **Enter** or click off the name to put the change into effect.

## Searching media assets

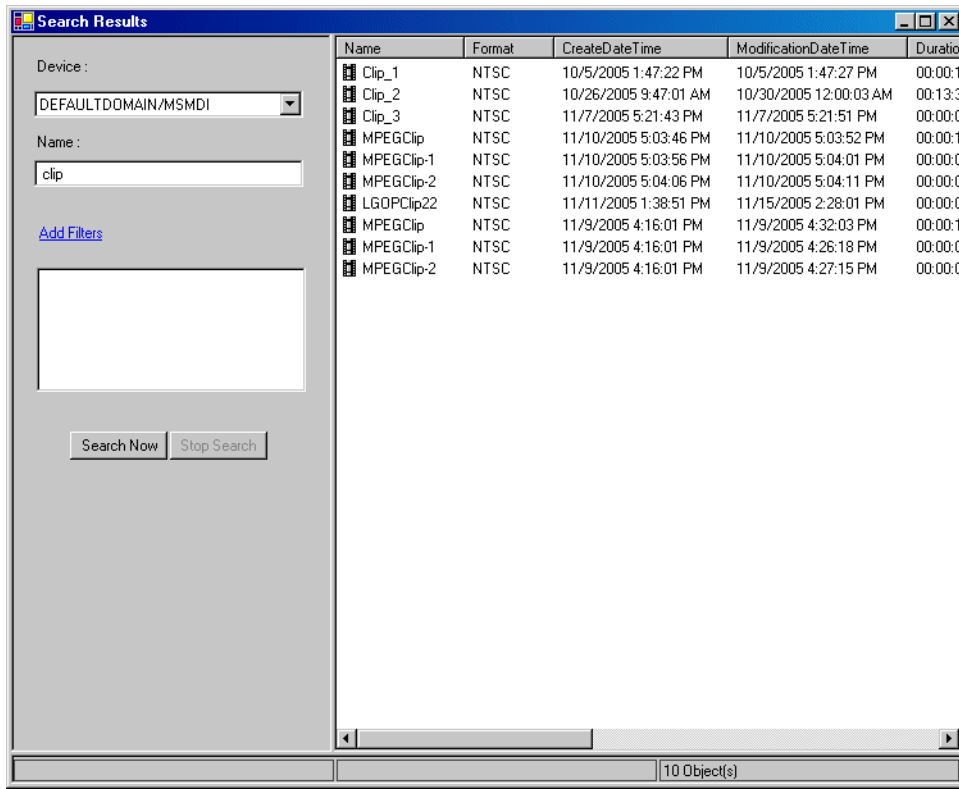
The following procedures describe Transfer application search features.

- [“Searching file names”](#)
- [“Searching with filters”](#)
- [“Modifying a search filter”](#)

### Searching file names

To find media assets with a file name that contains some or all of the text you specify, do the following:

1. Click the **Search** button or click **File | Search**. The Search dialog box opens.



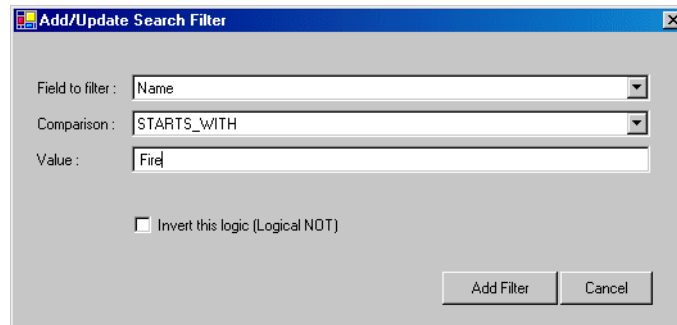
2. In the Device drop-down list, select the device you want to search. Devices are identified by their MDI names.
3. In the Name field, enter the full or partial file name for which you are searching.
4. Click **Search Now**. A list of media assets that match your search criteria are displayed.

You can drag and drop from the search dialog box to the right or left panes of the MediaFrame network view to initiate a transfer copy operation.

### Searching with filters

If you desire to use advanced search criteria, use the following procedure to create and add one or more search filters. Filters thus created are available only as long as the Search dialog box remains open. When you close the Search dialog box, the filters are not saved for reuse at a later time.

1. Click the **Search** button or click **File | Search**. The Search dialog box opens.
2. Click the **Add Filters** link. The Add/Update Search Filter dialog box opens.



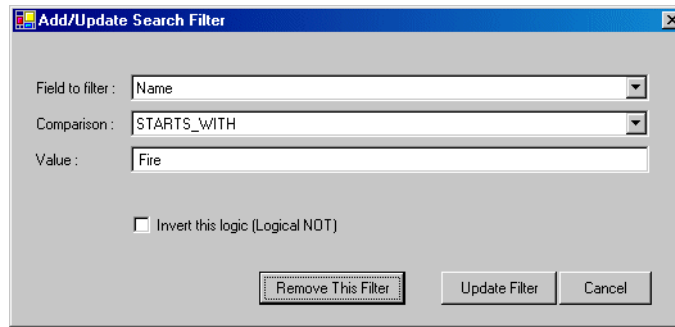
3. In the Field to filter drop-down list, select the field that contains the information on which you are basing your search.
4. In the Comparison drop-down list, select the type of search you want to do on the information in the selected field. You can select the following types of searches:
  - Contains
  - Ends with
  - Equal to
  - Starts with
5. In the Value field, enter the text on which you are basing your search.
6. If you want to display a list of all assets that do NOT match the search criteria currently configured, select the “Invert this logic...” option.
7. Click **Add Filter**. The Add/Update Search Filter dialog box closes and filter appears in the list of filter on the Search dialog box.
8. In the Search dialog box, click **Search Now**. A list of media assets that match the search criteria are displayed.
9. You can repeat this procedure to create and add one or more additional filters. When you do so, the search executed is based on the combined search parameters of all filters currently added.

You can drag and drop from the search dialog box to the right or left panes of the MediaFrame network view to initiate a transfer copy operation.

### Modifying a search filter

To change or remove an existing filter, do the following:

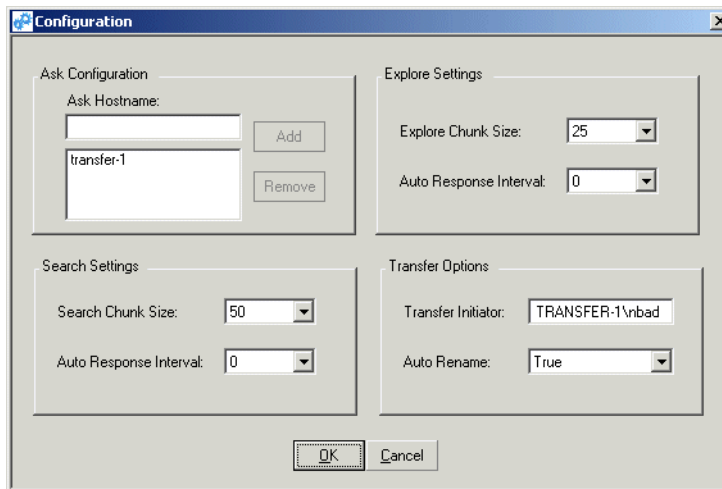
1. Click the **Search** button or click **File | Search**. The Search dialog box opens.
2. In the list of filters, click the filter that you want to change or remove. The Add/Update Search Filter dialog box opens.



3. Change the search criteria and click **Update Filter**, or if you want to delete the filter, click **Remove this filter**. The Add/Update Search Filter dialog box closes and the list of filters on the Search dialog box displays your changes.

## Configuring the Transfer application

- To configure the Transfer application, click **Tools | Configuration**. The Configuration dialog box opens.



You can make the following settings to change the way the Transfer application operates.

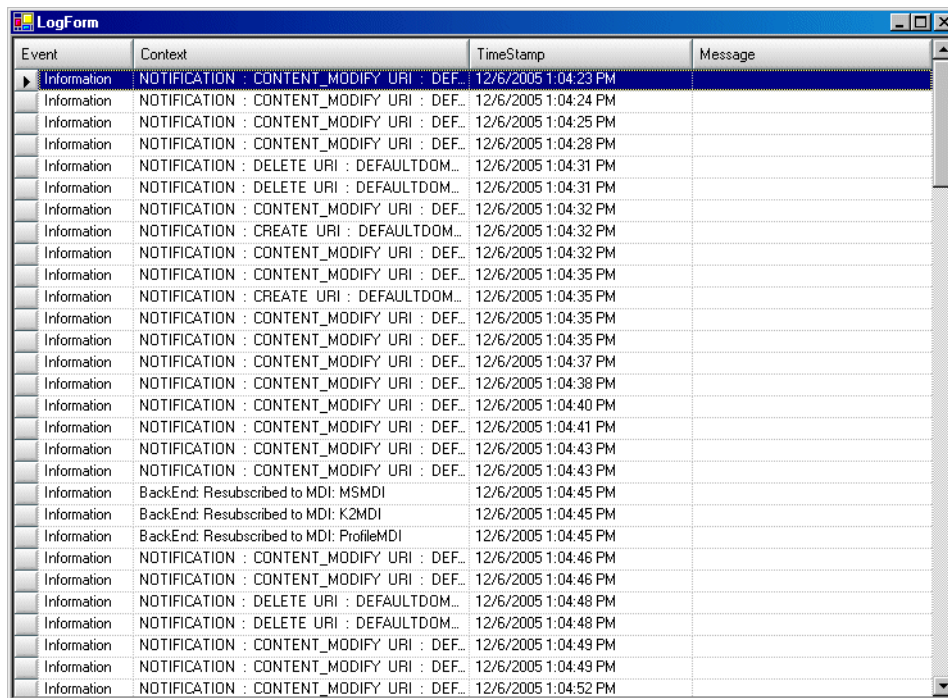
- For the **ASK location**, enter the name of the Transfer Server or other computer that hosts the ASK component. You can also remove the current ASK location and add a different ASK location from this dialog box. Click **Add**, then **OK** to save settings and close.
- **Search Settings: Search Chunk Size** sets the number of search results generated when you click the Search button.
- **Search Settings: Auto Response Interval** sets the interval between two consecutive clicks of the Search button.

- **Explore Settings: Explore Chunk Size** sets the number of items displayed in the Transfer application main window when a MediaFrame network node is opened.
- **Explore Settings: Auto Response Interval** sets the interval between two consecutive operations when a MediaFrame network node is opened.
- **Transfer Options: Transfer Initiator** sets the user name attributed as the initiator of transfers.
- **Transfer Options: Auto Rename** if set to True enables the Transfer application to automatically rename a transferred asset if necessary.

## Viewing the application log

You can view a list of actions executed by the Transfer application. You might be asked to provide information from this list to Grass Valley Support to help troubleshoot a problem.

To view the application log, click **View | Log File**. The Log window opens.



Event	Context	TimeStamp	Message
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:23 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:24 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:25 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:28 PM	
Information	NOTIFICATION : DELETE URI : DEFAULTDOM...	12/6/2005 1:04:31 PM	
Information	NOTIFICATION : DELETE URI : DEFAULTDOM...	12/6/2005 1:04:31 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:32 PM	
Information	NOTIFICATION : CREATE URI : DEFAULTDOM...	12/6/2005 1:04:32 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:32 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:35 PM	
Information	NOTIFICATION : CREATE URI : DEFAULTDOM...	12/6/2005 1:04:35 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:35 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:35 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:37 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:38 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:40 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:41 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:43 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:43 PM	
Information	BackEnd: Resubscribed to MDI: MSMDI	12/6/2005 1:04:45 PM	
Information	BackEnd: Resubscribed to MDI: K2MDI	12/6/2005 1:04:45 PM	
Information	BackEnd: Resubscribed to MDI: ProfileMDI	12/6/2005 1:04:45 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:46 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:46 PM	
Information	NOTIFICATION : DELETE URI : DEFAULTDOM...	12/6/2005 1:04:48 PM	
Information	NOTIFICATION : DELETE URI : DEFAULTDOM...	12/6/2005 1:04:48 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:49 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:49 PM	
Information	NOTIFICATION : CONTENT_MODIFY URI : DEF...	12/6/2005 1:04:52 PM	





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# Recovery Planning

Establish a recovery plan in the event a Aurora Transfer machine fails, so that Aurora Transfer services can be re-configured rapidly to minimize impact.

## Server failure considerations

The SQL database should be backed up on a regular basis and stored in a safe location. In the case of server failure the database can then be restored to minimize data loss. If an off-line backup server is purchased it should be pre-configured to operate in the system so in case of primary server failure, minimal time will be spent bringing up the backup system. The backed up database could be restored to this backup server on a regular basis.

## Database maintenance and administration

Aurora Transfer utilizes the SQL full recovery model and a maintenance plan is essential to keeping the database in working order. Not only does the database need to be backed up but the accompanying transaction log needs to be backed up as well. Failure to back up the transaction log can cause the database to become inoperable due to the transaction log file growing too large.

The transaction log is responsible for keeping track of all the edits to data until it reaches what is known as a checkpoint. Once the checkpoint is reached, the data should be permanently committed to the database. Problems arise when this checkpoint is reached, data is not committed to the database, and the transaction log continues to grow. If the transaction log reaches the capacity of growth it can render the database inoperable. In the event that the database has been rendered inoperable, a manual truncation of the transaction log will need to be performed, as explained in [“Repairing a database that is unusable due to transaction log size” on page 65](#).

Adopt the following practices to keep the database healthy:

- Daily monitor the growth of the transaction log daily, as explained in [“How to determine the size of the transaction log” on page 66](#).
- When necessary, manually back up the database and the transaction log, then shrink the transaction log file to release disk resources to the operating system, as explained in [“Manually controlling transaction log growth” on page 66](#).
- Set up a database maintenance plan. This automatically backs up the transaction log and the database. Refer to [“Setting up a database maintenance plan” on page 67](#).

## Repairing a database that is unusable due to transaction log size

If the database is rendered inoperable due to the transaction log becoming too large, it is highly likely that the transaction log has never been backed up, a database maintenance plan has not been enabled on the system, or the SQL Server agent is not running to implement your maintenance plan. The following steps should resolve the problem:

1. Open SQL Query Analyzer
2. Make sure the database in question is selected in the top tool bar. (For this example the *MediaFrame* database will be used.)
3. First try to backup the transaction log without truncating it by running the following command:

```
BACKUP LOG MediaFrame TO Disk = 'filePath\fileName.trn'
```

Where filePath and fileName is user specified, (e.g. D:\Emergency Backups\MediaFrame\_tran\_12052003.trn) if the file does not already exist, you will need to create it. If the transaction log is full it is likely that this command will fail but it is important to try it to maintain database integrity.

4. Regardless if the previous command passes or fails, execute the following command to clear the transaction log:

```
BACKUP LOG MediaFrame WITH TRUNCATE_ONLY
```

5. To free unused resources to the operating system execute the following command:

```
DBCC SHRINKFILE(MediaFrame_log, 2)
```

## How to determine the size of the transaction log

When SQL is installed the space that it is allotted on the operating system is divided into two parts: 50% is given to store transaction logs and 50% is reserved for data. To identify the amount of space the transaction logs is taking up, open SQL Query Analyzer and execute the following command.

```
DBCC sqlperf(logspace)
```

This command will return the amount of space each database's transaction log is taking up and the percentage of space the transaction log is using. The column that lists the percent of space the transaction log is taking up is misleading. Aurora Transfer databases set the transaction log growth limit to 500MB. If one of the databases transaction logs is larger than 350MB, then follow the steps in the next procedure "[Manually controlling transaction log growth](#)".

## Manually controlling transaction log growth

Use this procedure when the transaction log is approaching its size limit. First back up the database and the transaction log to keep a record of its current state. Then flush and shrink the transaction log file to reduce its size. To do this open SQL Enterprise Manager and manually backup the database and transaction log of the database in question. The steps to do this are as follows:

### Back up the transaction log

The following procedure uses the default location of the transaction log backup, which is as follows:

```
C:\Program Files\Microsoft SQL Server\MSSQL\BACKUP\<database name>\
```

If your transaction log backups are in a different location, substitute the different path.

1. Open **Start | Programs | Microsoft SQL Server | Query Analyzer**.
2. Connect to the SQL Server which is hosting the MediaFrame databases. An empty

query automatically opens.

3. To back up the transaction logs, type the following commands. In these examples the number string at the end of the command indicates May 31, 2005 at 12:00. Enter the actual year, month, date, hour, and minute in the indicated YYYYMMDDHHMM format.

- To back up the MediaFrame transaction log, type:

```
BACKUP LOG MediaFrame  
TO DISK='C:\Program Files\Microsoft SQL  
Server\MSSQL\BACKUP\MediaFrame\_tlog_200505311200'
```

4. Continue with the next procedure [“Shrink the transaction log”](#).

### Shrink the transaction log

This must be done very soon after backing up the transaction log. This will reduce the transaction log to the size specified; the log will then grow as needed.

Use Query Analyzer, as in the previous procedure.

The command to shrink the MediaFrame transaction log file is:

```
DBCC SHRINKFILE(MediaFrameLog, 10)
```

## Setting up a database maintenance plan

The best way to control the growth of transaction logs is to simply back them up, once a day at the very least. SQL 2000 makes it very easy to set up a database maintenance schedule. Before you begin implementing a database maintenance plan using the SQL 2000 Database Maintenance Planner wizard make sure that the SQLSERVERAGENT service is started and its properties are set to auto start for a local system account. If the SQLSERVERAGENT is not running, the database maintenance plan will not run. The following steps describe how to launch and configure the SQL 2000 Database Maintenance Planner:

1. Open SQL 2000 Enterprise Manager.
2. Expand Microsoft SQL Servers, expand the SQL Server Group and select the SQL server.
3. On the **Tools** menu, click **Database Maintenance Planner...**
4. After the wizard launches click the **Next>** button.
5. Select **These databases** radio button and select the **MediaFrame** and **NBIgest** databases.
6. Click the **Next>** button to navigate to the **Update Data Optimization Information** page.
7. Select the **Update statistics used by query optimizer. Sample** check box and set it to 10% of the database.
8. Check the schedule to verify that the time scheduled will not conflict with peak usage of the system. If a schedule time change is needed, click the **Change...** button to modify the time. This option can be run daily but once a week is good.
9. Click the **Next>** button to navigate to the **Database Integrity Check** page.

10. Select the **Check database integrity** check box.
11. Select the **Include indexes** radio button.
12. Select the **Perform these checks before doing backups** check box.
13. Check the schedule to verify that the time scheduled will not conflict with peak usage of the system. If a schedule time change is needed, click the **Change...** button to modify the time. This option can be run daily but once a week is good.
14. Click the **Next>** button to navigate to the **Specify the Database Backup plan** page.
15. Select **Back up the database as part of the maintenance plan** check box.

**NOTE: Do not select “Attempt to repair any minor problems”.**

16. Select **Verify the integrity of the backup when complete** check box.
17. Select the **Disk** radio button
18. Change the schedule from once a week to daily by clicking the **Change...** button.
19. Select the **Daily** radio button and set the interval to **Every 1 day(s)**.
20. Select the **Occurs once at** radio button. If the default time of 2:00:00 AM is not good, change it to a more suitable time.
21. Make sure that the **Start Date is today's date** and that the **No end date** radio buttons are selected.
22. Click the **OK** button and verify the schedule.
23. Click the **Next>** button to navigate to the **Specify Backup Disk Directory** page.
24. Select the **Use the default backup directory** radio button, except if the site has a specific folder for database backup files. If that is the case, then select the **Use this directory** radio button and enter in the specified path. (Note: SQL can only see local drives and cannot see shared directories or disks that are not native to the machine.)
25. Select the **Create a subdirectory for each database** check box.
26. Select the **Remove files older than** check box and set the value to **1 week(s)**.
27. The backup extension should be set to **BAK**.
28. Click the **Next>** button to navigate to the **Specify Transaction Log Back up Plan** page.
29. Select **Back up the transaction log as part of the maintenance plan** check box.
30. Select **Verify the integrity of the backup when complete** check box.
31. Select the **Disk** radio button.
32. Click the **Change...** button to set the transaction log schedule.
33. Select the **Daily** radio button and set the interval to **Every 1 day(s)**.
34. Select the **Occurs every** radio button and set the interval to every **6 hours**.
35. Make sure that the **Start Date** is today's date and that the **No end date** radio button is selected.

36. Click the **OK** button and verify the schedule.
37. Click the **Next>** button to navigate to the **Specify Transaction Log Backup Disk Directory** page.
38. Select the **Use the default backup directory** radio button, except if the site has a specific folder for database backup files. If that is the case, then select the **Use this directory** radio button and enter in the specified path. (Note: SQL can only see local drives and cannot see shared directories or disks that are not native to the machine.)
39. Select the **Create a subdirectory for each database** check box.
40. Select the **Remove files older than** check box and set the value to **1 week(s)**.
41. The backup extension should be set to **TRN**.
42. Click the **Next>** button to navigate to the **Reports to Generate** page.
43. Click the **Next>** button to navigate to the **Maintenance Plan History** page.
44. Click the **Next>** button to navigate to the **Completing the Database Maintenance Plan Wizard** page.
45. Enter Aurora Transfer for the name of the schedule.
46. Click the **Finish** button. (Note: If an error occurs, it is most likely that your SQLSERVERAGENT was not started. Start the service and start over.)

If the SQLSERVERAGENT is ever stopped, so is your maintenance plan. Make sure that the service is set to auto start in case of a reboot.

## Database Restoration

When Aurora Transfer is installed, a maintenance plan should be implemented to schedule backups of the *MediaFrame* database and transaction logs. The rule of thumb in restoring the database is to restore the last successful database backup and transaction log backups preceding system failure. Below is a given scenario of a system failure and the steps necessary to recover.

- 2:00:00 AM database back up performed by the maintenance plan
- 8:00:00 AM transaction log is backed up by the maintenance plan
- 2:00:00 PM transaction log is backed up by the maintenance plan
- 2:30:00 PM system failure occurs

The basic steps to recover are as follows:

1. Restore the database backup done at 2:00:00 AM
2. Restore the transaction backup done at 8:00:00 AM
3. Restore the transaction backup done at 2:00:00 PM

With a database maintenance schedule in place, SQL already recognizes the most recent database backup as well as the sequence of transaction log backups. To restore the database to the most current state before failure occurred, open SQL Enterprise Manager, expand the SQL Servers, expand the SQL Server Group, expand the server node, expand the databases directory and do the following:

1. Right mouse click the MediaFrame database
2. Select **All Tasks**.
3. Select **Restore Database...**
4. Select the **Database** radio button.  
SQL automatically selects most recent database backup file and sequence of transaction logs.
5. Verify the date and time stamp.
6. Click the **OK** button.

SQL will first restore the database, then restore the first transaction log backup, then restore the proceeding transaction logs up until the point of failure. After restore has completed the database will be restored to the point in time of the last backed up transaction log.

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