Avid® Interplay™ Transfer

Setup and User's Guide

Avid®

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Contents

Using This Guide

Congratulations on your purchase of an Avid® Interplay™ Transfer application. You can use your application to move Avid assets (media and metadata) and manage the transfer of assets to and from workgroups in an Avid Unity™ environment. You can also use Avid Interplay Transfer in a standalone environment to move assets between workstations. The Interplay Transfer system transfers assets to and from supported third-party applications, devices, and archive integration systems.

This guide contains all the task-oriented instructions, conceptual information, and reference material you need to transfer assets in an Avid Unity or in a standalone environment.

This guide is intended for all Avid Interplay Transfer users, from beginning to advanced.

The documentation describes the features and hardware of all models. Therefore, your system might not contain certain features and hardware that are covered in the documentation.

Symbols and Conventions

Avid documentation uses the following symbols and conventions:

Symbol or Convention	Meaning or Action
	A note provides important related information, reminders, recommendations, and strong suggestions.
	A caution means that a specific action you take could cause harm to your computer or cause you to lose data.
	A warning describes an action that could cause you physical harm. Follow the guidelines in this document or on the unit itself when handling electrical equipment.
>	This symbol indicates menu commands (and subcommands) in the order you select them. For example, File > Import means to open the File menu and then select the Import command.
▶	This symbol indicates a single-step procedure. Multiple arrows in a list indicate that you perform one of the actions listed.
Italic font	Italic font is used to emphasize certain words and to indicate variables.
`Courier Bold font`	Courier Bold font identifies text that you type.
Ctrl+*key* or *mouse action*	Press and hold the first key while you press the last key or perform the mouse action. For example, Ctrl+drag.

If You Need Help

If you are having trouble using Avid Interplay Transfer software:

1. Retry the action, carefully following the instructions given for that task in this guide. It is especially important to check each step of your workflow.
2. Check for the latest information that might have become available after the documentation was published:
   - If the latest information for your Avid product is provided as printed release notes, they ship with your application and are also available online.
   - If the latest information for your Avid product is provided as a ReadMe file, it is supplied on your Avid installation CD or DVD as a PDF document and is also available online.

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3. Check the documentation that came with your Avid application or your hardware for maintenance or hardware-related issues.
4. Visit the online Knowledge Base at www.avid.com/onlinesupport. Online services are available 24 hours per day, 7 days per week. Search this online Knowledge Base to find answers, to view error messages, to access troubleshooting tips, to download updates, and to read or join online message-board discussions.

Viewing User Guides on the Interplay Portal

You can quickly access the Interplay user guides from any system in the Interplay environment.

To access the Interplay user guides:

1. Type the following line in your web browser:

   http://*Interplay_Engine_name*

   where *Interplay_Engine_name* is the name of the computer running the Interplay Engine software. For example, the following line opens the portal web page on a system named DocWG:

   http://DocWG

2. Click the “Avid Interplay User Documentation” link to access the User Information Center Page.

Accessing the Online Library

The *Avid Interplay Online Library* DVD contains all the Avid Interplay product documentation in PDF format.

You need Adobe® Reader® to view the documentation online. You can download the latest version from the Adobe web site.

To access the online library from the Online Library DVD:

1. Insert the Online Library DVD into the drive.
2. Double-click the Mainmenu file.

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Revision History

The following table lists changes made to this guide after the application released.

Section Modified	Reason for change
"Configuring the Interplay Transfer Client For Direct Captures" on page 74	Documentation added for configuration to use Direct Capture.
"Workflow: Capturing Clips From an FTP Server" on page 105 and "Capturing Clips From FTP Devices" on page 110	Documentation added for new Direct Capture feature that uses the Initiate Transfer button on the Avid - FTP Media Browser dialog box and FTPClipList dialog box.

Chapter 1
Avid Interplay Transfer Overview

Avid Interplay Transfer lets you transfer Avid assets to and from another workgroup, send finished sequences to a configured playback device, and capture media from a configured ingest device. You can also use Interplay Transfer in a standalone environment (an environment other than Avid Unity) to move Avid assets between workstations.

Interplay Transfer receives and queues transfer requests from one or more clients. Transfers are then initiated by the Interplay Transfer Engine to off load the client.

You can monitor the status of all transfers using the Interplay Transfer Status view from within the Avid Interplay Access or you can monitor your own transfers from within your Avid editing application. A standalone system can also monitor the status of transfers using the Avid Interplay Media Services and Transfer Status software. You can designate a single Transfer Cache engine to monitor the transfers handled by several Interplay Transfer Engines, Avid AirSpeed®, or other Interplay Transfer enabled devices.

The following topics in this chapter provide an overview of working with Interplay Transfer:

- Understanding Interplay Transfer Configurations
- Networking Considerations
- Transfer Types
- Support for MXF/AAF Media

Read through this chapter to become familiar with the various types of transfers available with Interplay Transfer. For installation and configuration information, see “Avid Interplay Transfer Installation” on page 21 and “Interplay Transfer Configuration” on page 39. When you are ready to transfer assets, follow the procedures in “Transferring Avid Assets” on page 89 and “Transferring Avid Assets in a Standalone Environment” on page 98.

Understanding Interplay Transfer Configurations

Interplay Transfer can be configured in Avid Unity environments or in a standalone configuration (without Avid Unity MediaNetwork, Avid Unity LANshare, or Avid Unity ISIS™).

For optimal capture performance, configure one ingest or playback device per Interplay Transfer server.

A workgroup enables collaborative workflows by allowing multiple editors to share media. For diagrams showing typical shared-storage workgroup configurations, see *Avid Interplay Best Practices*.

Your workgroup environment might consist of the following components, depending on the workgroup configuration:

- Avid Unity MediaNetwork or Avid Unity ISIS media network file server and storage
- Fibre Channel network that connects the Avid editing systems, Avid Interplay server, and Interplay Transfer server to the Avid Unity MediaNetwork environment
- Ethernet network that connects the Avid editing systems, Avid Interplay server, and Interplay Transfer server to the Avid Unity ISIS media network environment
- Avid Interplay Engine to track and manage Avid Unity media
- Supported Avid editing applications, such as Media Composer® or NewsCutter®
- Interplay Transfer Engine to manage the transfer of media to and from the workgroup, and to and from other workgroups
- Ethernet network used as a general-purpose communication network

Supported Avid Interplay Transfer Configurations

The supported Interplay Transfer configurations are:

- A dedicated Interplay Transfer server connected to an Avid Unity MediaNetwork, Avid Unity LANshare, or Avid Unity ISIS that includes an Avid Interplay server.
- Standalone Interplay Transfer software installed on an Avid editing system (Microsoft® Windows® XP operating system only) that is connected to an Avid Unity LANshare without an Avid Interplay Engine (not Avid Unity MediaNetwork or Avid Unity ISIS). Each networked client must install both the Interplay Transfer Engine software and the Interplay Transfer client software.

Standalone Interplay Transfer is not supported on Avid Instinct™ systems.

- Standalone Interplay Transfer software installed on an Avid editing system (Microsoft Windows XP operating system only) with local storage.

Networking Considerations

For two workgroups to cooperate, some workstations in one workgroup have to be able to access services in the other workgroup. If these workgroups are not in the same site, or are separated by routers or firewalls, you have to establish access to allow these services to work.

The main components are an Avid Interplay Engine and two Interplay Transfer Engines. All these services are TCP/IP based.

- The Avid Interplay Engine leverages the standard HTTP service on port 80.
- The two Interplay Transfer Engines use port numbers that are defined in the services file in \WINDOWS\SYSTEM32\DRIVERS\ETC\.

  As installed, these port numbers are 6539 and 6532, respectively.

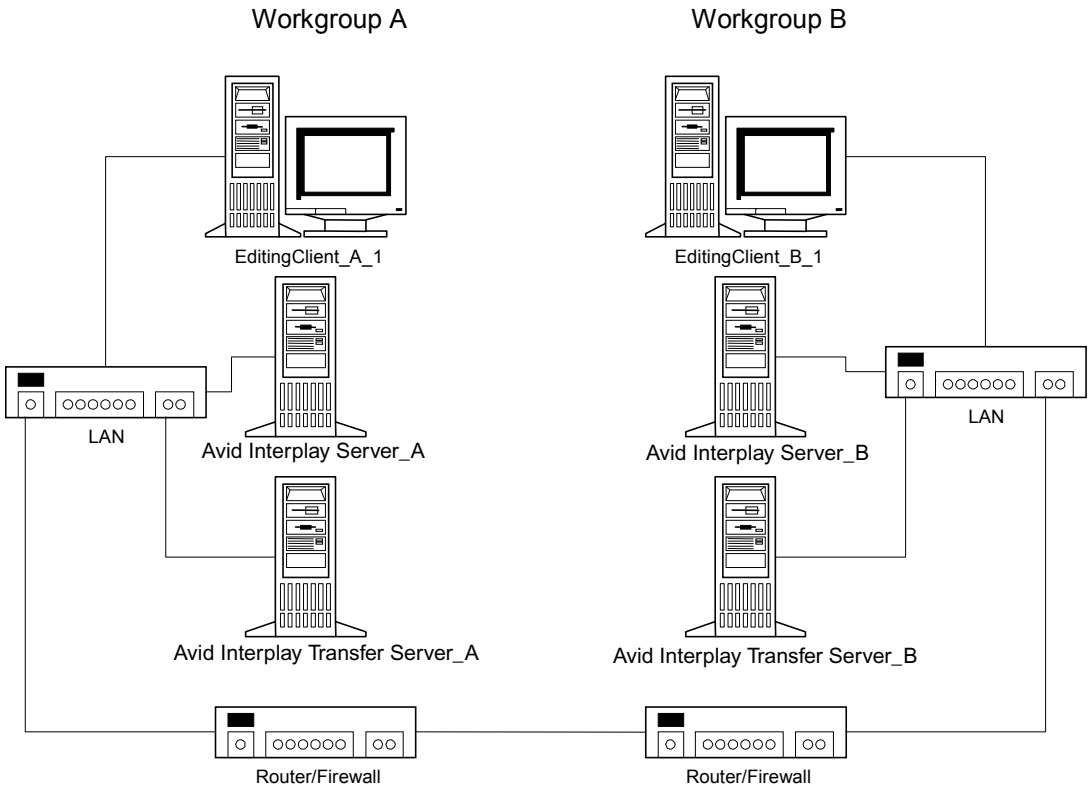
Remote Workgroup Connectivity Rules

For minimal remote workgroup connectivity, the following rules apply:

- Avid editing clients must be able to access the remote Interplay Transfer server and Avid Interplay Engine services.
- Interplay Transfer servers must be able to access the remote Media Transfer service. Interplay Transfer servers access only workgroup-local Avid Interplay Engine services, not remote ones.
- Avid Interplay servers must be able to access the remote Interplay Transfer service.

Typical Configuration

The following figure shows a typical configuration.



Remote Workgroup Network Configuration

The figure in “Typical Configuration” on page 16 shows only one Avid editing client per workgroup. You should assume that there are more clients and that each client requires the same connectivity. To access Interplay Transfer when network traffic is restricted at the router/firewall point, the network administrator must enable the combinations listed in the following table.

Use the following table to verify which port numbers to use depending on your source and destination.

Remote Workgroup Network Connection Guidelines

Source	Destination	Port
EditingClient_A_1	Avid Interplay Server_B	http:80
EditingClient_A_1	Avid Interplay Transfer Server_B	6539
EditingClient_B_1	Avid Interplay Server _A	http:80
EditingClient_B_1	Avid Interplay Transfer Server _A	6539
Avid Interplay Server _A	Avid Interplay Transfer Server _B	6539
Avid Interplay Server _B	Avid Interplay Transfer Server _A	6539
Avid Interplay Transfer Server_A	Avid Interplay Transfer Server _B	6532
Avid Interplay Transfer Server _B	Avid Interplay Transfer Server _A	6532

Any additional Avid editing clients should follow the rules listed in “Remote Workgroup Connectivity Rules” on page 15.

Transfer Types

When you use Interplay Transfer in a workgroup environment, there are several types of transfers available.

- You can perform a transfer from within the Avid editing system (for example, NewsCutter) to another workgroup or playback device. See "Transferring Avid Assets from an Avid Editing Application" on page 90.
- You can perform a remote transfer from the Avid Interplay Access user interface. See "Transferring Avid Assets from Workgroup to Workgroup" on page 91.
- You can capture media from a configured ingest device to your Avid editing application bin. See "Transferring Files From an Ingest Device" on page 102.
- If you are working in an Avid Unity for News workgroup, you can transfer finished sequences to a configured playback device. See "Transferring Avid Assets to a Playback Device" on page 98.
- You can import and export MXF OP1a files into an Avid Unity MediaNetwork, Avid Unity ISIS, or an Avid editing environment from an FTP server. See "Transferring To and From Generic FTP Servers" on page 103.
- You can capture media from FTP video servers. See "Transferring Files From FTP Deck Devices" on page 109.
- You can perform transfers from an Avid Interplay environment to an Avid Unity MediaManager v4.5 MXF workgroup environment that includes Avid editing systems supported in an Avid Interplay environment. See "Transferring Avid Assets from an Interplay Workgroup to Another Workgroup" on page 91.

Transfers from Avid Interplay to MediaManager v4.5 OMF® workgroups are not supported.

- You can drag and drop from Avid Unity MediaManager v4.5.x workgroup to an Avid Interplay workgroup if you are going from the MediaManager browser to a standalone Avid Interplay Access or to an Interplay Window. See "Transferring Avid Assets from Workgroup 4.5 to an Interplay Workgroup" on page 94.
- You can edit media during the capture process. See "Using Frame Chase Editing" on page 115.
- You can create an AutoTransfer folder with a Transfer Preset to automatically transfer assets to the Interplay Transfer Engine for workgroup to workgroup transfers. See "Automatically Transferring Assets to Another Workgroup" on page 95.

Support for MXF/AAF Media

MXF media created and edited in an Avid editing application can be shared in an Avid Interplay environment with other Avid MXF-capable devices. For a description of compatible issue between the various Avid products when working in an Avid Interplay workgroup, see *Avid Interplay Best Practices*.

Any third-party video servers included in an Interplay Transfer workgroup must support integration with an Avid MXF workgroup. Check with the manufacturers of the third-party video servers to verify that your video servers support Avid MXF workgroups.

Chapter 2

Avid Interplay Transfer Installation

This chapter describes how to add an Avid Interplay Transfer server to an Avid Interplay workgroup. The Interplay Transfer server is an Avid Unity client in the Avid Unity environment. This chapter also describes how to install the Interplay Transfer Engine in a workgroup environment and a standalone configuration. Other procedures describe where and how to install the Interplay Transfer support software.

The following sections are included in this chapter:

Installation and Configuration Check List

The following sections provide check lists for setting up an Interplay Transfer server and installing the Interplay Transfer support software.

- Check List for Installing and Configuring an Interplay Transfer Server
- Check List for Installing and Configuring an Interplay Transfer in a Standalone Environment
- Check List for Installing Interplay Transfer Support Software

Check List for Installing and Configuring an Interplay Transfer Server

The following table provides a check list of steps for installing and configuring the Interplay Transfer server in an Avid Unity workgroup and includes pointers to information about each step. The check list also covers installing and configuring the Interplay Transfer client software on an Avid editing system.

Interplay Transfer Installation and Configuration Check List

Task		Section Reference
❑	Check your configuration.	See "Supported Avid Interplay Transfer Configurations" on page 14.
❑	Review network considerations.	See "Networking Considerations" on page 15.
❑	Connect the Interplay Transfer server hardware and cables.	In a workgroup, the Interplay Transfer server is an Avid Unity client. Depending on your Avid Unity environment, see the following documents: For Avid Unity ISIS, see the Avid Unity ISIS client setup documentation. For Avid Unity MediaNetwork, see the Avid Unity MediaNetwork client setup documentation.
❑	Install cards in the Interplay Transfer server.	See "Installing Cards in the Interplay Transfer Server" on page 25.
❑	(Avid Unity ISIS environment) Make sure the System Director software is installed and is running.	See the Avid Unity ISIS administrator documentation.

Interplay Transfer Installation and Configuration Check List (Continued)

Task	Section Reference
❑ (Avid Unity MediaNetwork environment) Make sure Avid Unity File Manager software is installed on the File Manager server and is running.	See the Avid Unity File Manager documentation.
❑ Start the Interplay Transfer server.	See "Turning On the Interplay Transfer Server" on page 27.
❑ Install the Avid Unity ISIS or Avid Unity MediaNetwork client software.	See "Installing Avid Unity Client Software" on page 27.
❑ Make sure the Avid Interplay server has a user account for the Interplay Transfer server. *The user names and passwords must match on the Interplay Transfer server and on the Avid Interplay server.*	User account for Interplay Transfer server: User name: TransferManager Password: avid For information about setting up user accounts, see the Avid Interplay Administrator documentation.
❑ (AirSpeed option) Make sure the Avid Unity server and Avid Interplay server have user accounts for AirSpeed devices. *The user name and password must match on the Avid Interplay server and on the Avid Unity server.*	User account for AirSpeed: User name: airspeed password: avid The built-in login password for all AirSpeed servers is "avid". For information about setting up user accounts, see the Avid Unity documentation and the Avid Interplay Administrator documentation.
❑ Connect the Interplay Transfer application key.	See the *Avid Interplay Software Installation and Configuration Guide*.
❑ Install the Avid Interplay Framework for Client software.	See the *Avid Interplay Software Installation and Configuration Guide*.
❑ Install the Avid Interplay Access software.	See the *Avid Interplay Software Installation and Configuration Guide*.
❑ Install the Interplay Transfer Engine.	See "Installing the Interplay Transfer Engine Software" on page 30.
❑ Set up the Avid Interplay Transfer Engine Configuration tool.	See "Understanding the Avid Interplay Transfer Engine Configuration Settings" on page 40.
❑ Register the Interplay Transfer Engine in the workgroup.	See "Configuring an Avid Interplay Workgroup For Transfers" on page 49.

Interplay Transfer Installation and Configuration Check List (Continued)

Task	Section Reference
Avid Editing System	
❑ Install the Interplay Transfer client software on Avid editing systems.	See "Installing the Interplay Transfer Client Software" on page 33.
❑ Configure the Transfer settings in the Avid editing application.	See "Configuring the Avid Editing Application for Transfers" on page 62.

Check List for Installing and Configuring an Interplay Transfer in a Standalone Environment

The following table provides a check list of steps for installing and configuring the Interplay Transfer software in a standalone environment and references where to find more information about each step.

Do not install Avid Interplay Framework on a standalone Avid editing system.

Standalone Interplay Transfer Installation and Configuration Check List

Task	Section Reference
❑ Check your configuration.	See "Supported Avid Interplay Transfer Configurations" on page 14.
❑ Connect the Interplay Transfer application key.	See the *Avid Interplay Software Installation and Configuration Guide*.
❑ Install the Interplay Transfer Engine software on Avid editing systems.	See "Installing the Interplay Transfer Software in a Standalone Environment" on page 36.
❑ Install the Interplay Transfer client software on Avid editing systems.	See "Installing the Interplay Transfer Client Software in a Standalone Environment" on page 38.
❑ Setup the Interplay Transfer Engine Configuration tool.	See "Understanding the Avid Interplay Transfer Engine Configuration Settings" on page 40.
❑ Configure the Transfer settings in the Avid editing application.	See "Configuring the Avid Editing Application for Transfers" on page 62.

Check List for Installing Interplay Transfer Support Software

Depending on your workgroup configuration and the type of transfers performed in your workflow, you might need to install additional support software to transfer Avid assets or monitor transfers. The following table lists the support software and references where to find more information about installing the software.

Interplay Transfer Support Software Installation Check List

Task		Section Reference
❑	Install the Avid Interplay Adapter software (Avid Interplay Adapter service).	See the *Avid Interplay Software Installation and Configuration Guide*.
❑	Install the Avid Interplay Media Services and Transfer Status software.	See "Installing the Interplay Media Services and Transfer Status Tool" on page 35.
❑	Install the AutoTransfer Service	See "Installing the Avid Interplay AutoTransfer Service" on page 34.
❑	Install the Transfer Cache Engine software.	See "Installing the Transfer Cache Engine" on page 35.

Installing Cards in the Interplay Transfer Server

The cards included with the Interplay Transfer server depend on the Avid Unity environment where the Interplay Transfer server is being installed.

- In an Avid Unity ISIS environment, the Interplay Transfer server might ship with an Intel® PRO/1000 Server Adapter gigabit card, depending on your system's configuration. This card must be installed in slot 3 (top slot). Follow the directions supplied with the card. For information on configuring the Intel PRO/1000 card, see "Configuring the Intel PRO/1000 Adapter Card" on page 26.
- In an Avid Unity MediaNetwork environment, the Interplay Transfer server might ship with an Intel PRO/1000 Server Adapter gigabit card and an ATTO™ Fibre Channel card, depending on your system's configuration. These cards must be installed in the appropriate slots:
  - Install the Intel PRO/1000 Server Adapter card in slot 2 (middle slot of SR2400) or slot 1 (bottom slot of SR2500) of the Interplay Transfer server. Follow the directions supplied with the card. For information on installing the Intel PRO/1000 driver, see "Configuring the Intel PRO/1000 Adapter Card" on page 26.
  - Install the ATTO Fibre Channel card in slot 3 (the top slot) of the Interplay Transfer server. Follow the directions supplied with the card.

For more information about slot assignments, see Avid Interplay Software Installation and Configuration Guide.

Configuring the Intel PRO/1000 Adapter Card

The Intel PRO/Adapter card might require the installation of the Intel Pro/1000 driver. After you install the driver, you need to configure the card. This section provides procedures for installing the driver and configuring the card.

Installing the Intel PRO/1000 Driver

After you install the Intel PRO/1000 server adapter card and restart your system, a message might appear, looking for the Intel PRO/1000 driver.

To install the Intel PRO/1000 driver:

1. Open the C:\IntelPro folder.
2. Click the Autorun.exe file.

   The Intel Pro Network Connections window opens.
3. Click Install Drivers.
4. Click Finish.

Configuring the Intel PRO/1000 for Jumbo Frames

After you install the Intel PRO/1000 server adapter card and update the driver, you must configure the card to work correctly with the Interplay Transfer server.

To configure the Intel PRO/1000 card:

1. Right-click the My Network Places icon, and select Properties.
2. Right-click the file for the Intel Pro interface used by Interplay Transfer and select Properties.
3. Click Configure.
4. Click the Advanced tab.
5. In the Property area, select Jumbo Frames.
6. In the Value area, select 9014Bytes.
7. Click OK.

Turning On the Interplay Transfer Server

Before you can turn on the Interplay Transfer server, you need to do the following:

- Connect the Interplay Transfer server hardware and cables. See the Avid Unity client setup documentation.
- (Avid Unity ISIS environment) Make sure the System Director is installed and running.
- (Avid Unity MediaNetwork) Make sure the Avid Unity File Manager software installed on the Avid Unity File Manager server is running.

To start your Interplay Transfer server:

1. Turn on all the peripherals connected to the Interplay Transfer server.

   Make sure their power lights are on.

2. Press the Power button on the Interplay Transfer server.

   The MEDIASwitch port lights turn on as the Interplay Transfer server becomes ready.

Installing Avid Unity Client Software

After the Interplay Transfer server starts properly, and before you install the Interplay Transfer Engine, you must install the Avid Unity client software.

In an Avid Unity environment, the Interplay Transfer server is a client.

- In an Avid Unity ISIS environment, the Interplay Transfer server is an Avid Unity ISIS client. To install the Avid Unity ISIS client software, see the *Avid Unity ISIS Client Quick Start Card*.
- In an Avid Unity MediaNetwork environment, the Interplay Transfer server is a MediaNetwork client. To install the Avid Unity MediaNetwork client software, see the *Avid Unity MediaNetwork Windows Fibre Channel Client Setup Guide*.

Understanding the Software Required for Performing Transfers

To perform transfers you need to install specific software components on the various servers and systems. Which software you install and where you install it, depends on your workgroup environment. The following table outlines where the software components are installed to perform transfers. You should use this table as a guide, depending on your workgroup environment.

The following sections provide procedures for installing the software components on the Interplay Transfer server and Avid editing system. For detailed steps on installing Avid Interplay Engine and Avid Interplay Framework for Server, see the *Avid Interplay Software Installation and Configuration Guide*.

Software Installation Location

Software	Installed on Avid Interplay Server	Installed on Interplay Transfer Server	Installed on Avid Editing Client
Interplay Transfer Engine		X[a]	X[b]
Interplay Transfer Client			X
Avid Interplay Engine	X		
Avid Interplay Access	X	X	X
Avid Interplay AutoTransfer (option)[c]			
Avid Interplay Framework for Client		X	X
Avid Unity ISIS Client or Avid Unity MediaNetwork Client[d]	X	X	X

a. A requirement for performing Generic FTP transfers is to install the Interplay Transfer Engine on the C partition of the Interplay Transfer server.
b. Install only if in a standalone environment (not an Avid Unity environment).
c. You can install the Avid Interplay AutoTransfer service on any system in the workgroup.
d. The media network client software you install depends on your Avid Unity environment.

After installing the latest version of Interplay Transfer, if you decide to reinstall an older version, make sure you uninstall the latest version before reinstalling the older version. When uninstalling the latest version, you should use the Add or Remove program in the Control Panel and restart your computer after the uninstall is complete.

Understanding the Workgroup Environment Software

In a workgroup environment, after your hardware is properly set up, perform the following software installation procedures on the Interplay Transfer server:

- Install the Interplay Framework for Client software. See the *Avid Interplay Software Installation and Configuration Guide*.
- Install the Avid Interplay Access software. See the *Avid Interplay Software Installation and Configuration Guide*.
- Install the Interplay Transfer Engine software. See "Installing the Interplay Transfer Engine in a Workgroup Environment" on page 29.

Install the following software on the various systems in the workgroup:

- Install the Interplay Transfer Client software on the Avid editing systems. See "Installing the Interplay Transfer Client Software" on page 33.
- (Option) Install the Avid Interplay Media Services and Transfer Status application on a standalone system. See "Installing the Interplay Media Services and Transfer Status Tool" on page 35.
- (Option) Install the Avid Interplay AutoTransfer service software on any system. See "Installing the Avid Interplay AutoTransfer Service" on page 34.

Understanding the Standalone Transfer Environment Software

In a standalone transfer environment, workstation-to-workstation transfers in an environment other than Avid Unity, you must install the Interplay Transfer Engine software and the Interplay Transfer client software on each client. For installation procedures, see "Installing the Interplay Transfer Software in a Standalone Environment" on page 36.

In a standalone transfer environment, media files are tracked using Persistent Media Record (PMR) files. The Avid Interplay Media Indexer is not used to manage the media files.

Installing the Interplay Transfer Engine in a Workgroup Environment

After you install the Avid Unity client software on your Interplay Transfer server, you can install the Interplay Transfer Engine software. Then you need to install the Interplay Transfer client software on each client in the workgroup. The following sections provide procedures for installing the Interplay Transfer software.

You are reminded that data networks, such as standard data networks that support Internet Protocols, are not necessarily secure networks, and that any transfer of information over such networks — whether internally or externally — is not necessarily a secure transfer. As when you communicate any information over any network, you are responsible for ensuring that you use network settings or implement policies that meet your security needs. Like other applications designed for use over a data network, the Interplay Transfer application provides the capability for making transfers over a network but does not provide security for such transfers over unsecured networks. Avid makes no representations that transfers using Interplay Transfer will be secure. Avid recommends that, before using Interplay Transfer to transfer Avid assets over a network, you first evaluate your own security needs and implement appropriate measures to accommodate those needs, such as building any requisite firewalls and obtaining security certificates, or any other measures that you deem necessary to protect media being transferred over any network.

While Avid systems include password protection, such passwords are provided solely for your convenience to protect access to the Avid systems themselves and do not affect the security of information transferred over an unsecured data network.

Installing the Interplay Transfer Engine Software

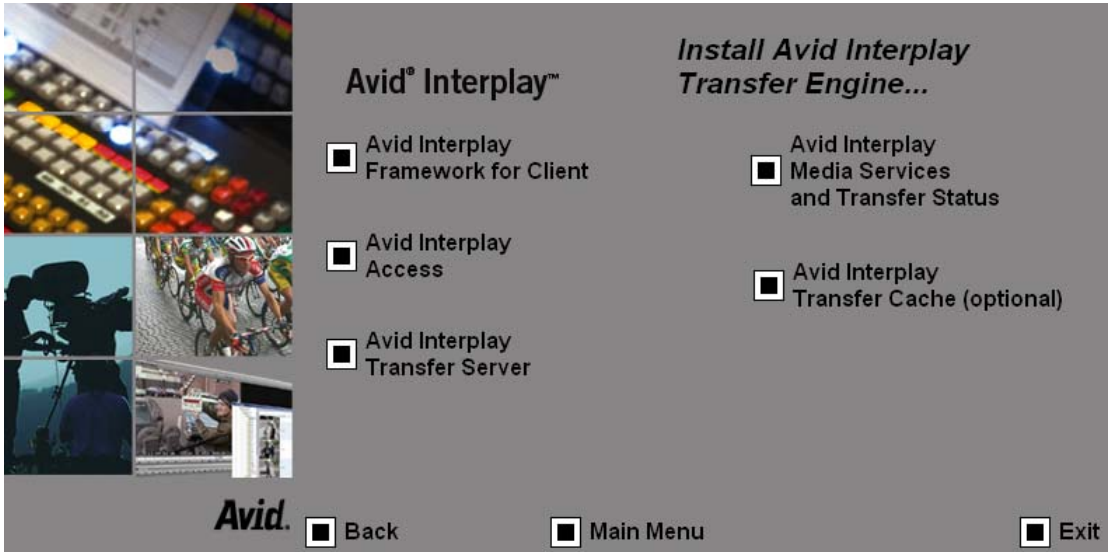
In a workgroup environment you need to install the Interplay Transfer Engine on the Interplay Transfer server system. This software also installs the Avid Interplay Transfer Engine Configuration software, which lets you set up the particular configuration for your Interplay Transfer server. For descriptions of the Avid Interplay Transfer Engine Configuration options, see “Understanding the Avid Interplay Transfer Engine Configuration Settings” on page 40.

If a previous release of Interplay Transfer Engine is installed on the computer you should remove it before installing this version of the software.

To install the Interplay Transfer Engine software:

1. Before you install the Interplay Transfer Engine, you need to connect the Interplay Transfer USB application key (also called a dongle). See the *Avid Interplay Software Installation and Configuration Guide.*
2. Insert the Avid Interplay Installer DVD and double-click the Launch.exe installer.
3. Click Servers on the Main Menu page, and then click Avid Interplay Transfer Server.

   The Install Avid Interplay Transfer Engine page opens.



4. Make sure the following components are installed on the Interplay Transfer server:
   - Avid Interplay Framework for Client
   - Avid Interplay Access

   For installation procedures, see the *Avid Interplay Software Installation and Configuration Guide*.
5. Click Avid Interplay Transfer Server.
6. In the Welcome window, click Next.
7. Click the applicable country, and click Next.
8. Click Yes to accept the license agreement.
9. In the "Choose the installation type that best suits your needs" dialog box, select one of the following:
   - Avid Interplay Transfer Server with Supplemented FTP Services – if your workgroup configuration includes supported ingest or playback FTP devices, such as Sony® e-VTR or Thunder® production server.

In a Standalone AirSpeed workflow, do not select the Avid Interplay Transfer Server with Supplemented FTP Services option. This option will cause transfers to fail as the Interplay Transfer tries to use an FTP profile instead of the correct AirSpeed DHM to handle the transfer.

   - Avid Interplay Transfer Server – to install the standard Avid Interplay Transfer Engine.

10. Click Next.
11. Click Next to accept the location for the application.
12. The installer verifies that Microsoft NET Framework 1.1 is installed on the system.
    - If the installer finds Microsoft NET Framework 1.1 on the system, then the Interplay Transfer installation continues.
    - If Microsoft NET Framework 1.1 is not found, a license agreement appears. Click Yes to accept the license agreement. The Microsoft NET Framework 1.1 begins to install.

If you do not accept the license agreement, the Interplay Transfer Engine installation ends without completing.

13. A message appears, asking if you want to open the Avid Interplay Transfer Engine Configuration tool now or later.
    - ▶ Click Yes to open the Avid Interplay Transfer Engine Configuration tool.

To open the Avid Interplay Transfer Engine Configuration tool after the Interplay Transfer installation is complete, click the Start button, and select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

14. Set the appropriate options in the Avid Interplay Transfer Engine Configuration tool. See "Understanding the Avid Interplay Transfer Engine Configuration Settings" on page 40.
15. After you complete the configuration of the server, click Save.
16. Click "Yes, I want to restart my computer now."
17. Click Finish.

Installing the Interplay Transfer Client Software

You must install the Interplay Transfer client software on each client in the workgroup that plans on transferring Avid assets to another workgroup or playback device. However, Avid Instinct and Avid Interplay Assist have their own Interplay Transfer software so you don't need to install the Interplay Transfer client software on them.

When installing AirSpeed as an Interplay Transfer client, use the Interplay Transfer client software provided with this release. Do not install the older version available from the AirSpeed I/O application CD-ROM.

If a previous release of Interplay Transfer client is installed on the computer you should remove it before installing this version of the software.

On the Avid editing system, when adding an AirSpeed Studio to the list of transfer engines, you must add the AirSpeed members of the Studio before you add the AirSpeed Studio. Make sure the AirSpeed Studio appears at the bottom of the list in the Transfer Settings dialog box.

To install the Interplay Transfer client software on an Avid editing system:

1. Insert the Avid Interplay Transfer application CD-ROM and double-click the Launch.exe file.
2. Click Clients on the Main Menu page.

   The Install Client Support page opens.
3. Click Avid Editor Support.

   The Install Avid Editor Support page opens.
4. Click Avid Interplay Transfer Client.
5. In the Welcome window, click Next.
6. Click the applicable country, and click Next.
7. Click Yes to accept the license agreement.

If you do not accept the license agreement, the Interplay Transfer client installation ends without completing.

   The Select the Installation dialog box opens.
8. At the Select the Installation dialog box, select "Avid Interplay Transfer Client on Avid editing system, and click Next.
9. Click Next to accept the location for the application.

10. The installer verifies that Microsoft NET Framework 1.1 is installed on the system.
    - If the installer finds Microsoft NET Framework 1.1 on the system, the Interplay Transfer installation continues.
    - If Microsoft NET Framework 1.1 is not found, follow the instructions to install it.
11. Click "Yes, I want to restart my computer now."
12. Click Finish.
13. Repeat the installation for each client.

For documentation on configuring the Avid editing system for transfers, see "Configuring the Avid Editing Application for Transfers" on page 62.

Installing Interplay Transfer Support Software

Depending on your workflow and workgroup environment, you might need to install one of the Interplay Transfer support software products. If your workflow requires auto transferring of assets, you need to install the Avid Interplay Auto Transfer service. If you want to monitor transfers from a standalone system, then you should install the Avid Interplay Media Services and Transfer Status software.

The following sections provide procedures for installing these software products:

- Installing the Avid Interplay AutoTransfer Service
- Installing the Interplay Media Services and Transfer Status Tool
- Installing the Transfer Cache Engine

Installing the Avid Interplay AutoTransfer Service

If your workflow requires auto transferring of assets, you need to install the Avid Interplay AutoTransfer service. Installation of the Interplay AutoTransfer service is included with the Avid Interplay Auto Archive installation. You can install the Interplay AutoTransfer service on any system in the workgroup. However, it is usually installed on the system with the Avid Interplay Media Services Engine.

To install the Avid Interplay AutoTransfer service:

1. Insert the Avid Interplay Installer DVD and double-click the Launch.exe installer.
2. Click Servers on the Main Menu page, and then click Avid Interplay Engine.

   The Install Avid Interplay Engine page opens.
3. Click Avid Interplay Auto Archive, Auto Transcode, and Auto Transfer.

4. Follow the installation instructions.

AutoTransfer service is included with the Avid Interplay Auto Archive installation.

The Avid Interplay AutoTransfer service automatically runs in the background.

For information about configuration settings for the AutoTransfer service, see "Configuring the AutoTransfer Service" on page 84.

For information on automatically transferring assets, see "Automatically Transferring Assets to Another Workgroup" on page 95.

Installing the Interplay Media Services and Transfer Status Tool

The Media Services and Transfer Status tool lets you monitor transfers from a standalone system. The Media Services and Transfer Status configuration settings only apply to the standalone system. These settings do not effect other components in a workgroup.

To install Media Services and Transfer Status software on a standalone system:

1. Insert the Avid Interplay Installer DVD and double-click the Launch.exe installer.
2. Click Individual Optional Installers on the Main Menu page.

   The Install Optional page opens.
3. Click Avid Interplay Media Services and Transfer Status.
4. Follow the installation instructions.

For procedures on configuring the Interplay Media Services and Transfer Status tool, see "Configuring a Standalone System to Monitor Transfer Status" on page 58.

Installing the Transfer Cache Engine

You can install the Avid Interplay Transfer Cache Engine on a system without installing the Interplay Transfer Engine. The Transfer Cache Engine lets you monitor transfers in the workgroup.

To install the Transfer Cache Engine:

1. Insert the Avid Interplay Installer DVD and double-click the Launch.exe installer.
2. Click Servers on the Main Menu page, and then click Avid Interplay Transfer Server.

   The Install Avid Interplay Transfer Engine page opens.
3. Click Avid Interplay Transfer Cache.

4. Follow the installation instructions.

The Avid Interplay Transfer Cache engine automatically runs in the background. For procedures on monitor transfers, see "Configuring an Avid Interplay Workgroup For Transfers" on page 49.

The Transfer Status window retrieves transaction status from the cache engine instead of the Interplay Transfer Engine.

Installing the Interplay Transfer Software in a Standalone Environment

If you are installing Interplay Transfer for workstation-to-workstation transfers in an environment other than Avid Unity, you must install the Interplay Transfer Engine software and Interplay Transfer client software on each client.

The Interplay Transfer Engine software also installs the Interplay Transfer configuration software, which lets you set up the particular configuration for your workstation transfers.

Workstation-to-workstation transfers are not supported with Avid Instinct systems.

For procedures on installing the Interplay Transfer standalone software:

- Installing the Interplay Transfer Engine on a Standalone Editing System
- Installing the Interplay Transfer Client Software in a Standalone Environment

Installing the Interplay Transfer Engine on a Standalone Editing System

To install the Interplay Transfer Engine on an Avid editing system:

1. Insert the Avid Interplay Transfer application DVD and double-click the Launch.exe file.

   The Main Menu page opens.

2. Click ReadMe to open the ReadMe file.

   Read the ReadMe file for important information about the Interplay Transfer, then return to the installation frontend window.

3. Click Avid Interplay Transfer Engine.
4. In the Welcome window, click Next.
5. Click the applicable country, and click Next.
6. Click Yes to accept the license agreement.

If you do not accept the license agreement, the Interplay Transfer Engine installation ends without completing.

7. In the "Choose the installation type that best suits your needs" dialog box, select one of the following:
   - Avid Interplay Transfer Server with Supplemented FTP Services – if your configuration includes supported ingest or playback FTP devices, such as Sony e-VTR or Thunder server.
   - Avid Interplay Transfer Server – to install the standard Interplay Transfer Server software.
8. Click Next.
9. Click Next to accept the location for the application.

10. The installer verifies that Microsoft NET Framework 1.1 is installed on the system.
    - If the installer finds Microsoft NET Framework 1.1 on the system, then the Interplay Transfer installation continues.
    - If Microsoft NET Framework 1.1 is not found, follow the instructions to install it.

If you do not accept the license agreement, the Interplay Transfer Engine installation ends without completing.

11. A message appears, asking if you want to open the Avid Interplay Transfer Engine Configuration tool now or later.
    - Click Yes to open the Avid Interplay Transfer Engine Configuration tool.

To open the Avid Interplay Transfer Engine Configuration tool after the Interplay Transfer installation is complete, click the Start button, and select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

12. Set the appropriate options in the Avid Interplay Transfer Engine Configuration tool. See "Understanding the Avid Interplay Transfer Engine Configuration Settings" on page 40.
13. Click Save.
14. Click OK in the message box that indicates changes made to the Interplay Transfer configuration will not take effect until the Avid editing system is restarted.
15. Click "Yes, I want to restart my computer now."
16. Click Finish.

Installing the Interplay Transfer Client Software in a Standalone Environment

You must install the Interplay Transfer client software on each standalone client.

To install Interplay Transfer client software in a standalone environment:

1. Insert the Avid Interplay Transfer application DVD and double-click the Launch.exe file.

   The Main Menu page opens.
2. Click Avid Interplay Transfer Client.
3. Follow the installation instructions.

Chapter 3

Interplay Transfer Configuration

This chapter describes how to configure the Interplay Transfer system and Interplay Transfer clients after you install the software. This chapter describes both an Avid Unity environment and a standalone Transfer configuration. The Interplay Transfer server is an Avid Unity client in the Avid Unity environment.

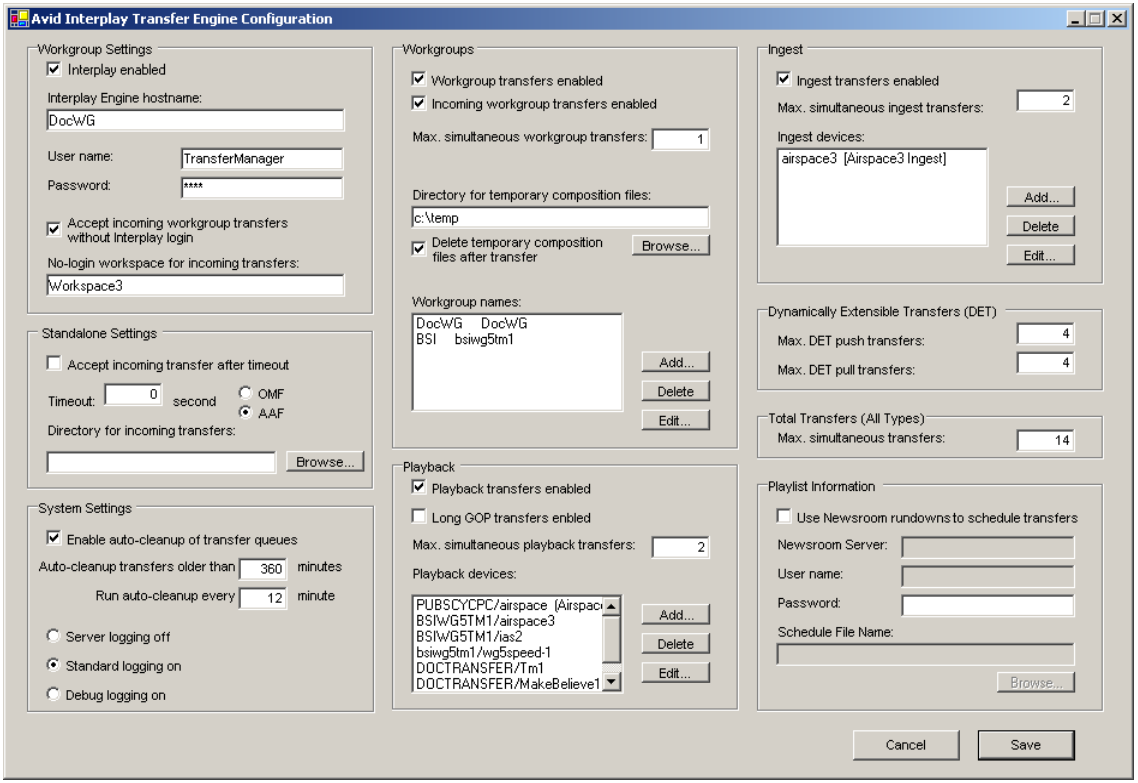
Understanding the Avid Interplay Transfer Engine Configuration Settings

The Avid Interplay Transfer Engine Configuration dialog box lets you set several options for performing various types of media transfers.

To open the Avid Interplay Transfer Engine Configuration dialog box:

- In a workgroup environment, from the Interplay Transfer server, click the Start button, and select All Programs > Avid > Avid Interplay Transfer Engine Configuration.
- In a standalone environment, from an Avid editing system, click the Start button, and select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

Avid Interplay Transfer Engine Configuration dialog box



For information about the options in the Interplay Transfer Engine Configuration dialog box, see the following table. For changes to take effect, you must restart the Interplay Transfer server, or in a standalone environment restart the Avid editing system.

Avid Interplay Transfer Engine Configuration Settings

Option	Description
Workgroup Settings	
Interplay enable	In a workgroup environment, select this option to enable the Avid Interplay Engine. When this option is selected the Standalone settings are ignored.
Interplay Engine hostname	In a workgroup environment, type the computer name for the Avid Interplay Server associated with the workgroup this Interplay Transfer is attached to.
User name and Password	In a workgroup environment, type the user name and password that the Interplay Transfer should use to connect to the Avid Interplay Server. This user account must already exist on the Avid Interplay Engine. Currently, you must type the User name as `TransferManager` and the password as `avid`.
Accept incoming workgroup transfers without Interplay login	In a workgroup environment, select this option if you want to accept incoming workgroup transfers even if the Interplay Transfer is not logged in to Avid Interplay Engine.
No-login workspace for incoming transfers	In a workgroup environment type the name of the Avid Unity workspace where you want the incoming transfers to be sent. This workspace must already exist and you must have access to it. If you are performing captures, you must set this to an Avid Unity workspace.
Standalone Settings	*The Standalone settings are ignored when the Interplay enable option is set in the Workgroup Settings area.*
Accept incoming transfer after timeout	In a standalone environment, select this option if you want to accept incoming transfers after the set timeout. When you are performing standalone transfer operations between clients, the timeout value must be set to less than 15 seconds. Avid recommends a timeout value of 10 seconds.
OMF AAF	In a standalone environment, select either OMF or AAF depending on for the type of media files being transferred.

Avid Interplay Transfer Engine Configuration Settings (Continued)

Option	Description
Directory for incoming transfers	In a standalone environment, type the name of the directory where you want Interplay Transfer to place the incoming transfers. This directory must be a valid media files directory. Click Browse to locate a valid directory. The default directories are: In OMF mode - OMFI MediaFiles In AAF mode - Avid MediaFiles\MXF\1  *For better performance when media files grow beyond 10,000 files in the primary directory \1, you need to change the Directory for incoming transfers to Avid MediaFiles\MXF\2.*
System Settings	
Enable auto-cleanup of transfer queues	Transfer queues are not automatically deleted from the server system. The queues let you see the history of the transfers. Select this option if you want the transfer queues cleaned up on a regular basis. The default is to Auto-cleanup transfers that are older than 360 minutes (6 hours) and to run the auto-cleanup every 12 minutes.
Server logging off Standard logging on Debug logging on	These three options are used for troubleshooting problems. If errors occurred where Avid Customer Support needs more information from log files, you might have to change these settings. The default is Standard logging on.
Configure FTP Parameters	If during the install process, you selected “Interplay Transfer Server with Supplement FTP Services” in the “Choose the installation type that best suits your needs” dialog box, you need to configure the FTP parameters. See “Configuring an FTP Server, FTP Playback, and FTP Ingest Devices” on page 67. All entries must match the device’s setup.
Workgroups	
Workgroup transfers enabled	In a workgroup environment, select this option to enable workgroup-to-workgroup transfers. In a standalone environment, select this option to enable transfers to another workstation.
Incoming workgroup transfers enabled	In a workgroup environment, select this option to enable transfers from another workgroup. In a standalone environment, select this option to enable transfers from another workstation.

Avid Interplay Transfer Engine Configuration Settings (Continued)

Option	Description
Max. simultaneous workgroup transfers	Displays the maximum number of simultaneous outgoing workgroup transfers. Avid recommends 1.
Directory for temporary composition files	Type the directory name where you want temporary files to be placed during the capture process or during incoming workgroup transfers. The default directory is C:\temp.
Delete temporary composition files after transfer	This option is used for diagnostic reasons. Select this option during normal use. Avid Customer Support might ask you to deselect this option when troubleshooting problems.
Workgroup names	Sets the name of remote workgroups and their Interplay Transfer server. *This setting is ignored when performing workgroup transfers from within Avid Interplay Access. The available destination workgroups are set using the "Configure Remote Workgroups" site setting in the Avid Interplay Administrator.* Do the following: 1. Click Add. 2. In the Workgroup Name text box, type a nickname for the remote workgroup. This name can be any name you decide to use for the remote workgroup. The name you enter for the workgroup appears in the Transfer menu on the Avid editing application. 3. In the Maps to Server Name text box, type the computer name of the Interplay Transfer server of the remote workgroup.
Playback	
Playback transfers enabled	Enables play back transfers. Select this option if your workgroup includes a playback device such as an Avid AirSPACE. The recommended maximum number of simultaneous transfers is 2. For an Avid editing system, such as a NewsCutter XP system in a LANshare environment, the recommended maximum number of play back transfers is 1.
Long GOP Transfer enabled	Do not set this option. It is for a future release of Interplay Transfer.

Avid Interplay Transfer Engine Configuration Settings (Continued)

Option	Description
Playback devices	Enter the name or names of any playback devices in your workgroup. *You do not need to list AirSpeeds here, because AirSpeeds have their own Interplay Transfer software and configuration settings.* For the following devices, do the following: • For an Avid AirSPACE playback device, type the name of the Interplay Transfer server and the name of the playback device. For example, type `TMserver1/Airspace1`. • For Grass Valley Group Profile® systems, type the computer name of the playback device. • For Generic FTP playback devices, see "Configuring a Generic FTP Playback Device into a Workgroup" on page 70. (Option) In a workgroup environment, when adding a playback device you can associate an Avid Interplay Access Catalog with the playback device, select Enter Playback Catalog Name and type a name for the playback catalog. See "Configuring a Playback Device Catalog" on page 83.
Ingest	
Ingest transfers enabled	Enables ingest transfers. Select this option if your workgroup includes an ingest device. The recommended maximum number of simultaneous ingest transfers is 2. For a NewsCutter XP system in a LANshare environment, the recommended maximum number of ingest transfers is 1. For an XDCAM device the maximum number of ingest transfers is 1.

Avid Interplay Transfer Engine Configuration Settings (Continued)

Option	Description
Ingest devices	Enter the name or names of any ingest devices in your workgroup. *You do not need to list AirSpeed devices here, because AirSpeed devices have their own Interplay Transfer software and configuration settings.* For the following devices, do the following: • For an Avid AirSPACE ingest device, make sure the name you type for the ingest device matches exactly the name of the ingest device in the AirSPACE Mission Control server list. • For a Generic FTP ingest device, see "Configuring a Generic FTP Ingest Device into a Workgroup" on page 71. • For adding a FTP ingest device, type the name associated with the ingest device. See "Adding FTP Ingest Devices into an Interplay Transfer Engine Configuration" on page 79. • (Option) In a workgroup environment, select Enable Auto Scavenge if your workgroup includes an Avid Media Browse system and Avid Interplay Media Services and ProEncode, and you want to create a low-resolution copy of ingested clips on the Media Browse system. During ingest, high-resolution files are created on the Avid Unity. In the text box, type the name of the scavenge process created on the Media Browse. See the Media Browse documentation. • (Option) In a workgroup environment, when adding an ingest device you can associate an Avid Interplay Access Catalog with the ingest device. Select Enter Ingest Catalog Name and type a name for the ingest catalog. See "Configuring an Ingest Device Catalog" on page 82.
Dynamically Extensible Transfers (DET)	
Max. DET push transfers	Sets the maximum number of simultaneous DET push transfers; Avid recommends 4.
Max. DET pull transfers	Sets the maximum number of simultaneous DET pull transfers; Avid recommends 4.

Avid Interplay Transfer Engine Configuration Settings (Continued)

Option	Description
Total Transfers (All Types)	Sets the maximum number of simultaneous transfers. In a workgroup environment, this number should be the number of playback devices, plus 2 times the number of ingest devices, plus the number of workgroups. In a standalone environment, this number should be at least the total of the simultaneous play back transfers plus 2 times the ingest transfers. For a NewsCutter XP system in a LANshare environment, the recommended maximum number of simultaneous transfers is 2.  *The higher the number of simultaneous transfers, the more the impact on performance.*
Playlist Information	
Use Newsroom rundowns to schedule transfers	Enables the Interplay Transfer Newsroom rundown scheduling feature. See "Working with Rundowns" on page 99.
Newsroom Server	Type the computer name of the Newsroom Server.
User Name	Type the user name that Interplay Transfer should use to connect to the Newsroom Server.
Password	Type the password Interplay Transfer should use to connect to the Newsroom Server.
Schedule File Name	Type the file name of the schedule file that Interplay Transfer should use to determine which rundown to use at which time. See "Working with Rundowns" on page 99.

Configuring Workgroup Transfer Presets

When performing workgroup transfers you can use presets to select a predefined destination for the transferring assets. Transfer presets define the remote workgroup, a destination workspace, and a destination folder for the metadata. You can also choose whether to display the preset name in the Send to Workgroup dialog box.

When setting up a workgroup transfer preset the available choices depend on the type of remote workgroup transfer. For example:

- If the remote workgroup is an Avid MediaManager, you might be able to select a workspace but cannot select a destination folder.
- If the transfer is a standalone Transfer Engine, you cannot select a workspace or a destination folder.

To configure a transfer preset:

1. Click Start and select All Programs > Avid > Avid Interplay Access Utilities > Avid Interplay Administrator.

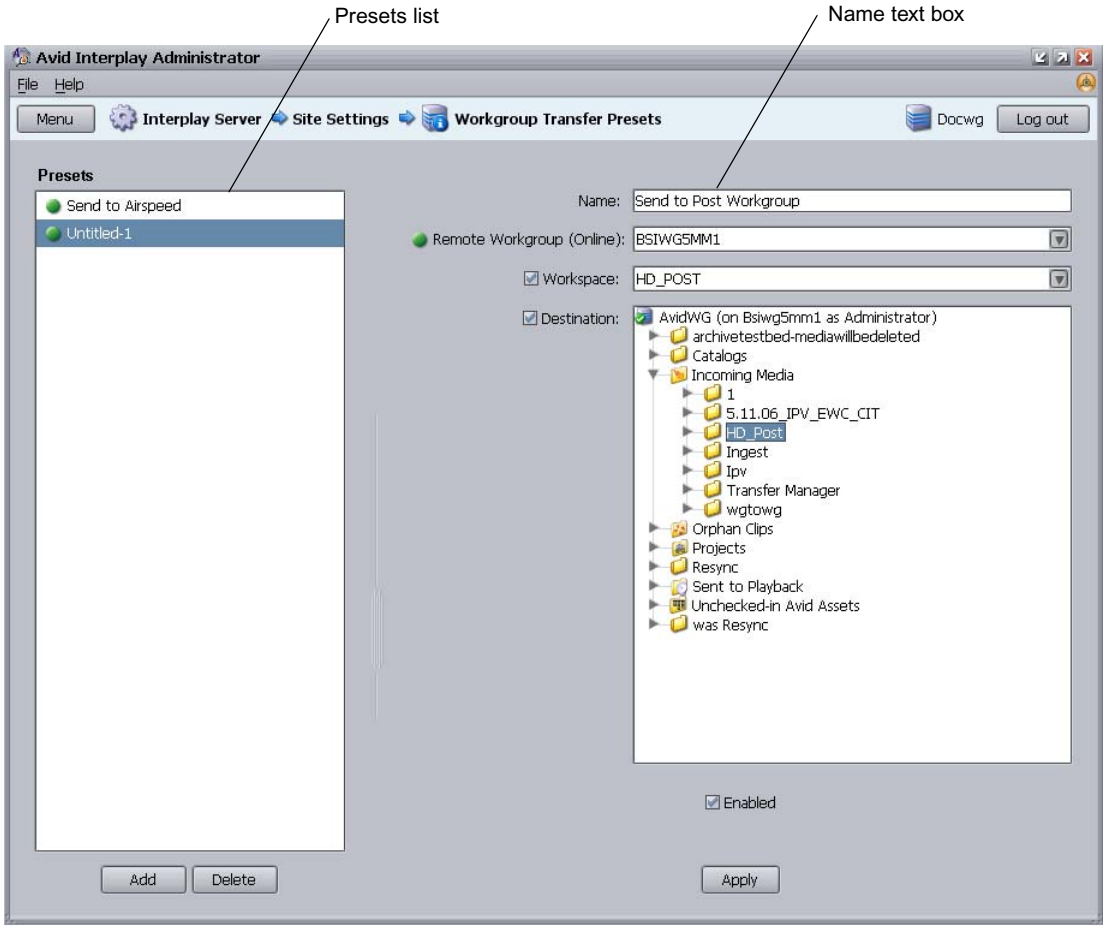
   The Avid Interplay Server Login dialog box opens.

2. Select an Avid Interplay Server, type a username, and password.
3. Click Connect.

   The Avid Interplay Administrator opens.

4. In the Site Settings area, click Workgroup Transfer Presets.

   The Workgroup Transfer Presets view opens.



5. Click Add below the Presets list.

   Untitled displays in the Name text box.

6. Type a name for the preset in the Name text box.

7. Select the remote workgroup server from the Remote Workgroup menu.

The remote workgroup servers available from the Remote Workgroup menu are defined in the Configure Remote Workgroups view of the Avid Interplay Administrator. For information on adding a remote workgroup to the Remote Workgroup menu, see "Configuring a Remote Workgroup for Workgroup to Workgroup Transfers" on page 56.

8. (Option) Select Workspace and select a destination workspace for the media files from the Workspace menu.

   If you do not select a workspace, the default destination workspace is used.

9. (Option) Select Destination and select a destination folder in the remote workgroup database for the metadata.

   If you do not select a folder, the default destination folder is used.

10. (Option) Select Enabled, if you want this preset to display in the Send to Workgroup dialog box.
11. Click Apply to save your changes.

Configuring an Avid Interplay Workgroup For Transfers

The Avid Interplay Administrator provides Interplay Transfer site settings for registering Interplay Transfer engines, AirSpeeds, and other Interplay Transfer enabled devices in an workgroup. After an Interplay Transfer engine is registered, you can access it from any Interplay Transfer client in the workgroup. The type of transfers a server or device can perform, depends on the transfer settings.

The Interplay Transfer Settings let you:

- Select a Transfer Cache engine for monitoring various Interplay transfers. You can choose which Interplay Transfer engines and Interplay Transfer enabled devices are monitored by a Transfer Cache engine. See “Selecting a Transfer Cache Engine for Monitoring Transfers” on page 51.
- Add an AirSpeed Studio that simultaneously distributes a Send to Playback request to multiple AirSpeeds. See “Adding a Studio” on page 54.
- Configure a Studio to allow Send to Playback requests to individual AirSpeeds in the Studio.
- List the transfer devices in the various Send to menus.
- Set the length of time between refreshing the Transfer Status view. See “Setting the Refresh Time of the Interplay Transfer Status Window” on page 56.

Opening the Interplay Transfer Settings View

The Interplay Transfer Settings are available from the Avid Interplay Administrator.

To open the Interplay Transfer Settings View:

1. Click Start and select All Programs > Avid > Avid Interplay Access Utilities > Avid Interplay Administrator.

   The Avid Interplay Engine Login dialog box opens.

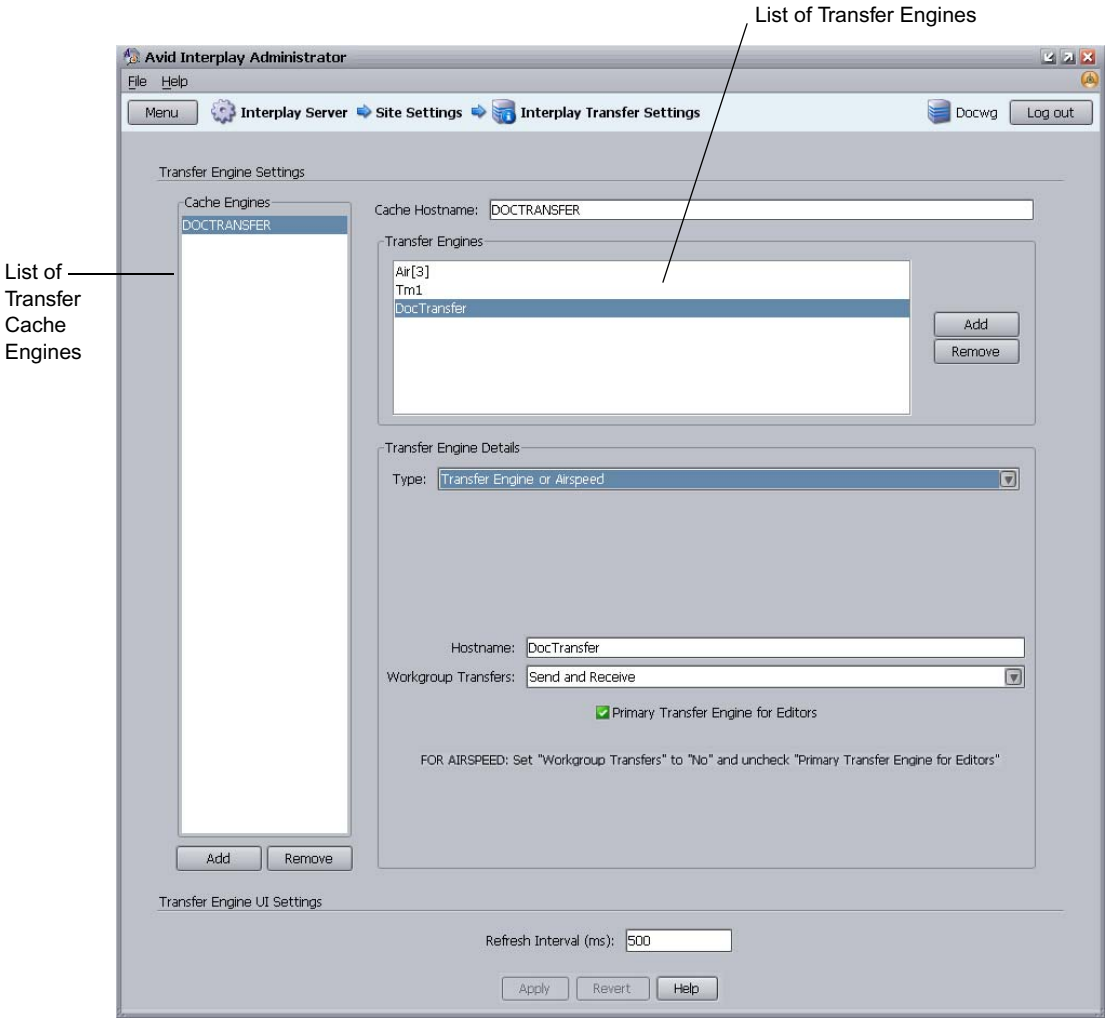
2. Select an Avid Interplay Server, type a username, and type a password.

3. Click Connect.

   The Avid Interplay Administrator opens.

4. In the Site Settings area, click Interplay Transfer Settings.

   The Interplay Transfer Settings view opens.



The Transfer Cache engine listed in the Cache Hostname text box monitors all items listed in the Transfer Engines list. The Interplay Transfer Status view displays all Transfer Engines listed in the Transfer Engine list.

The Interplay Transfer Engines listed in the Interplay Transfer Engines list might appear in the various Send To commands, such as Send to Playback. The settings you choose determines which Interplay Transfer Engines appear in which command list.

Selecting a Transfer Cache Engine for Monitoring Transfers

The Transfer Cache engine you select to monitor transfers can be located on an Interplay Transfer server or on a separate server (a server other than the servers performing the transfers). A typical configuration for monitoring transfers uses the Transfer Cache engine located on the Interplay Transfer server.

When monitoring transfers, you might want to select a Transfer Cache engine on a separate server to improve transfer performance. Monitoring transfers can be resource intensive for a Transfer Cache engine and might impact transfer performance. Depending on the activity of your workgroup, the following actions can impact transfer performance:

- Performing a large number of transfers with the Interplay Transfer Engine
- Transferring a large amount of data with the Interplay Transfer Engine
- Monitoring several Interplay Transfer Engines through the Transfer Cache engine
- Monitoring several Interplay Transfer enabled devices
- Connecting several status clients to the Transfer Cache engine

By default, to improve performance, the Transfer Cache engine only polls the status of transfers when a client requests status of an Interplay Transfer Engine.

A Transfer Cache engine installs automatically when you install the Interplay Transfer Engine. The Transfer Cache engine starts on the server when you start the Microsoft Windows operating system. Therefore, starting the Interplay Transfer Engine is not required to use the Transfer Cache engine. You can also install a Transfer Cache engine without installing the Interplay Transfer engine. For installation procedures, see “Installing the Transfer Cache Engine” on page 35.

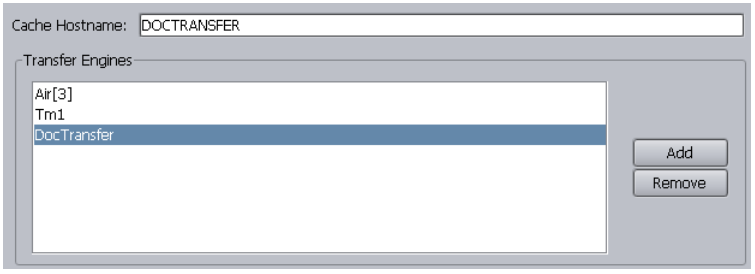
A Transfer Cache engine is not installed on AirSpeed devices. To monitor AirSpeed transfers, you must use a Transfer Cache engine located on a separate server.

To establish a Transfer Cache Engine for monitoring transfers:

1. Open the Interplay Transfer Settings view. See "Opening the Interplay Transfer Settings View" on page 49.
2. Below the Cache Engines list, click Add to add a new Transfer Cache engine to the list.
3. Change the default Transfer Cache engine name by doing the following:
   a. In the Cache Hostname text box, type the hostname of the server you want to use for monitoring transfers.
   b. Press Enter.

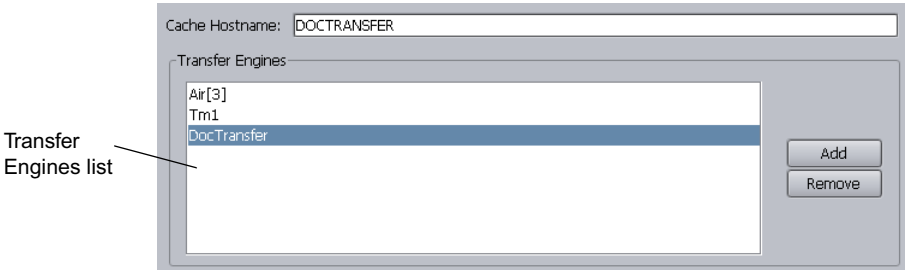
      The default cache name is replaced with the hostname you typed in the Cache Hostname text box.
4. Create a list of the Interplay Transfer Engines and Studios that you want to monitor through the Transfer Cache engine.
   - To add Interplay Transfer Engines, see "Adding Interplay Transfer Engines" on page 53.
   - To add a Studio, see "Adding a Studio" on page 54.

If the Transfer Cache engine is located on an Interplay Transfer server, you must add the Transfer Cache engine's hostname to the Transfer Engines list.



Adding Interplay Transfer Engines

The Transfer Cache engine listed in the Cache Hostname text box monitors all transfers handled by the Interplay Transfers listed in the Transfer Engines list.



You can add Interplay Transfer Engines, AirSpeed devices, or other Interplay Transfer-enabled devices using the following procedure. For a procedure to add a Studio to the list, see “Adding a Studio” on page 54.

To add an Interplay Transfer Engine or Interplay Transfer enabled device to the Transfer Engines list:

1. Open the Interplay Transfer Settings view. See “Opening the Interplay Transfer Settings View” on page 49.
2. Establish a Transfer Cache engine for monitoring transfers. See “Selecting a Transfer Cache Engine for Monitoring Transfers” on page 51.
3. In the Transfer Engines area of the Interplay Transfer Settings view, click Add.

   A default name displays in the Transfer Engines list.
4. In the Transfer Engine Details area, from the Type menu, select Transfer Engine or AirSpeed.
5. In the Hostname text box, change the default name by typing the hostname of the Interplay Transfer server or Interplay Transfer enabled device that you want to add.
6. Press Enter.

   In the Transfer Engines list, the default name is replaced with the hostname you typed in the Hostname text box.

7. From the Workgroup Transfers menu, select the type of workgroup transfers allowed by this server or device:

   - For an Interplay Transfer Engine, select either Send Only, Receive Only, Send and Receive, or No.

For Interplay Transfer Engines, the Workgroup Transfers setting only effects workgroup transfers that are initiated from the Avid Interplay Access or by dragging a Workgroup 4.5 asset into the Interplay TransferStatus View. This setting has no effect on transfers initiated from Avid editing systems.

   - For an Interplay Transfer-enabled device, such as an AirSpeed, select No.

     Workgroup transfers are not allowed by these devices.

8. (Option) If you want an Interplay Transfer Engine to be the primary Interplay Transfer Engine used by the Avid editing systems, then select "Primary Transfer Engine for Editors."

Each workgroup can have only one primary Interplay Transfer Engine. When workgroup transfers are initiated from an Avid editing system the workgroup transfers are handled by the primary Interplay Transfer Engine. Only Interplay Transfer Engines installed on a Transfer server are allowed to be a primary transfer engine.

9. Click Apply when you finish adding all the Interplay Transfer Engines to the list.

Adding a Studio

An AirSpeed Studio is a group of AirSpeeds that simultaneously processes Send to Playback requests. In a workgroup, a Transfer Cache engine can monitor the transfers handled by the Studio members. When you add a Studio to a workgroup, you can choose whether to list the individual members of the Studio in the Send to Playback menu.

To add a Studio to the Transfer Engines list:

1. Open the Interplay Transfer Settings view. See "Opening the Interplay Transfer Settings View" on page 49.
2. Establish a Transfer Cache engine for monitoring transfers. See "Selecting a Transfer Cache Engine for Monitoring Transfers" on page 51.
3. In the Transfer Engines area of the Interplay Transfer Settings view, click Add.

   A default name displays in the Transfer Engines list.

4. In the Transfer Engine Details area, from the Type menu, select Studio.

   The default name is appended with [1] indicating it is a Studio.

   A Studio is identified using the following naming convention: *studioname*[*N*]

   In this example, *studioname* is the Host Name assigned in the AirSpeed application, and *N* represents the number of members in the Studio.

   For more information about naming and configuring the AirSpeed and Studio, see the AirSpeed documentation.

5. In the Studio Name text box, change the default name by typing the hostname of the Studio.
6. Click the Transfer Engines list.

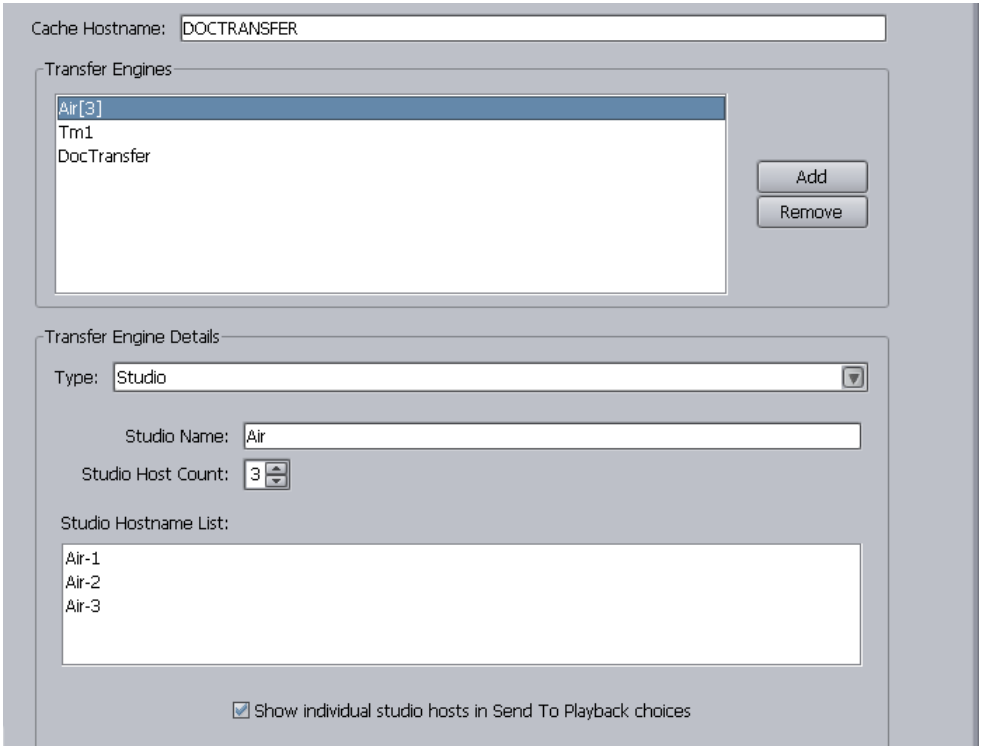
   The default name is replaced with the hostname you typed in the Studio Name text box.

7. In the Studio Host Count menu, select the number of members in the Studio.

   The maximum number of Studio members is 5.

8. Press Enter.

   The number you selected is appended to the Studio name. For example, if you select 3, the Studio name appears as *Studioname*[3].



9. (Option) If you want each Studio member to display in the Send to Playback menu, select “Show individual studio hosts in the Send To Playback choices.”
10. Click Apply when you finish adding all the Studios to the Transfer Engines list.

Setting the Refresh Time of the Interplay Transfer Status Window

You can adjust the amount of time between refreshes of the Interplay Transfer Status window.

This setting does not impact how frequently the Transfer Cache engine polls the Avid Interplay Engine.

To set the Interplay Transfer Status view refresh time:

1. Open the Interplay Transfer Settings view. See “Opening the Interplay Transfer Settings View” on page 49.
2. In the Refresh Interval (ms) text box, type the amount of time you want between refreshes of the status view. The unit is millisecond (ms).
3. Click Apply.

Configuring a Remote Workgroup for Workgroup to Workgroup Transfers

When a workflow requires searching across remote workgroups or performing workgroup-to-workgroup transfers, an administrator must set up the local Workgroup to allow access to the remote workgroups. The administrator of the remote Workgroup also needs to add the user name and password of the local Workgroup to allow login.

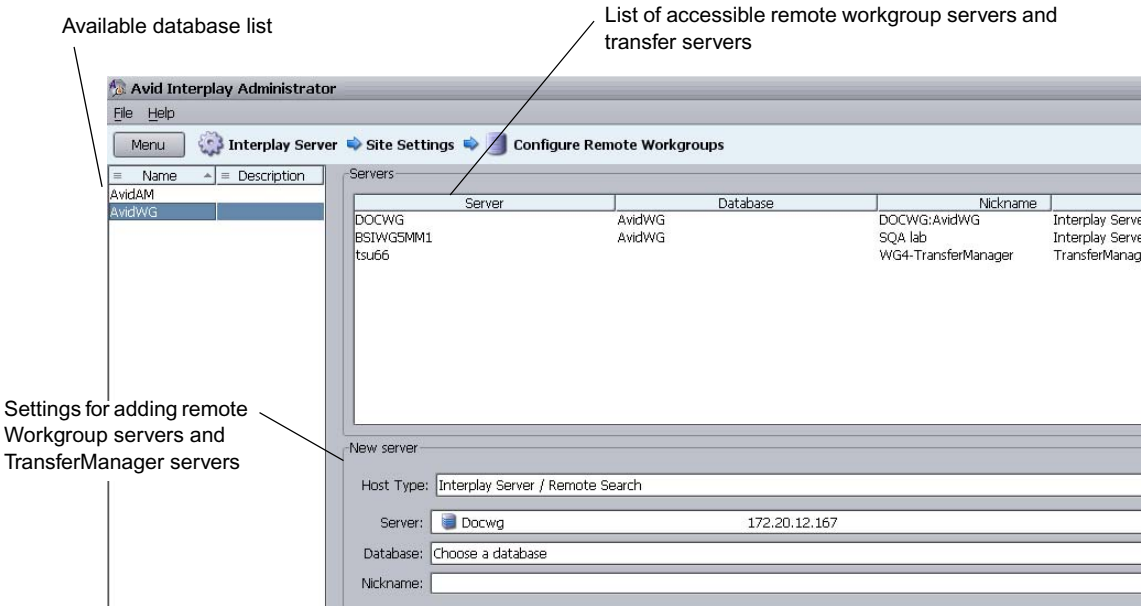
After access to the remote workgroup is set, you can select from a list of accessible remote workgroups when performing a search across remote workgroups or performing transfers to a remote workgroup. For example, after adding remote workgroups they appear in the Server list of the Workgroup Transfer Presets view and in the Send To Workgroup dialog box.

A maximum of 10 hostnames can be configured between Workgroup Servers and Nearchive servers. For example, you can search five remote Workgroups and five Nearchive servers for a total of 10.

To set up access to multiple workgroups:

1. Make sure the remote Workgroup contains the user name and password of the local Workgroup.
2. In the Interplay Administrator, click Configure Remote Workgroups.

3. In the Configure Remote Workgroups view, select a database from the Available Databases list.



4. In the New server pane, add information about the remote workgroup that you want to access.

   a. Select the Host Type:

      - Interplay Server/Remote Search—to add access to a remote Interplay workgroup
      - TransferManager—to add access to a Workgroup 4 TransferManager
      - MediaManager—to add access to a Workgroup 4 workgroup or Avid Nearchive system
      - Interplay Server / 3d Party Search—to add access for a third-party plug-in. The plug-in needs to be properly installed before you can configure it. See “Using Third-Party Search Plug-ins” in the *Avid Interplay Access User’s Guide*.

   b. Type information for the remote workgroup. The fields vary, depending on the Host Type you selected. For the Server, you can type the remote workgroup’s IP address instead of the host name. The Nickname must be less than 255 characters.

   c. Click Add.

      The Server name and other information about the remote workgroup appears in the list of accessible remote servers.

To remove a remote workgroup from the accessible list:

1. Click the name of the remote workgroup in the list.
2. Click Remove.

Configuring a Standalone System to Monitor Transfer Status

The Avid Interplay Media Services and Transfer Status tool lets you monitor transfers and services of various workgroups and servers from a standalone system. After you install the application on a standalone system, you need to configure the Media Services and Transfer Status settings.

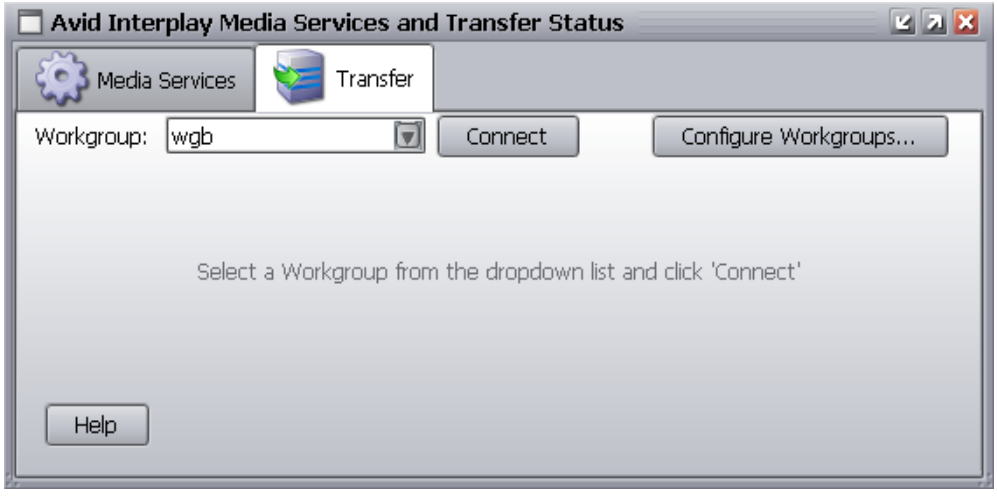
For installation procedures, see "Installing the Interplay Media Services and Transfer Status Tool" on page 35.

Any changes you make to the configuration settings apply only to the standalone system. They do not effect other components in a workgroup.

To configure a standalone system for monitoring transfers:

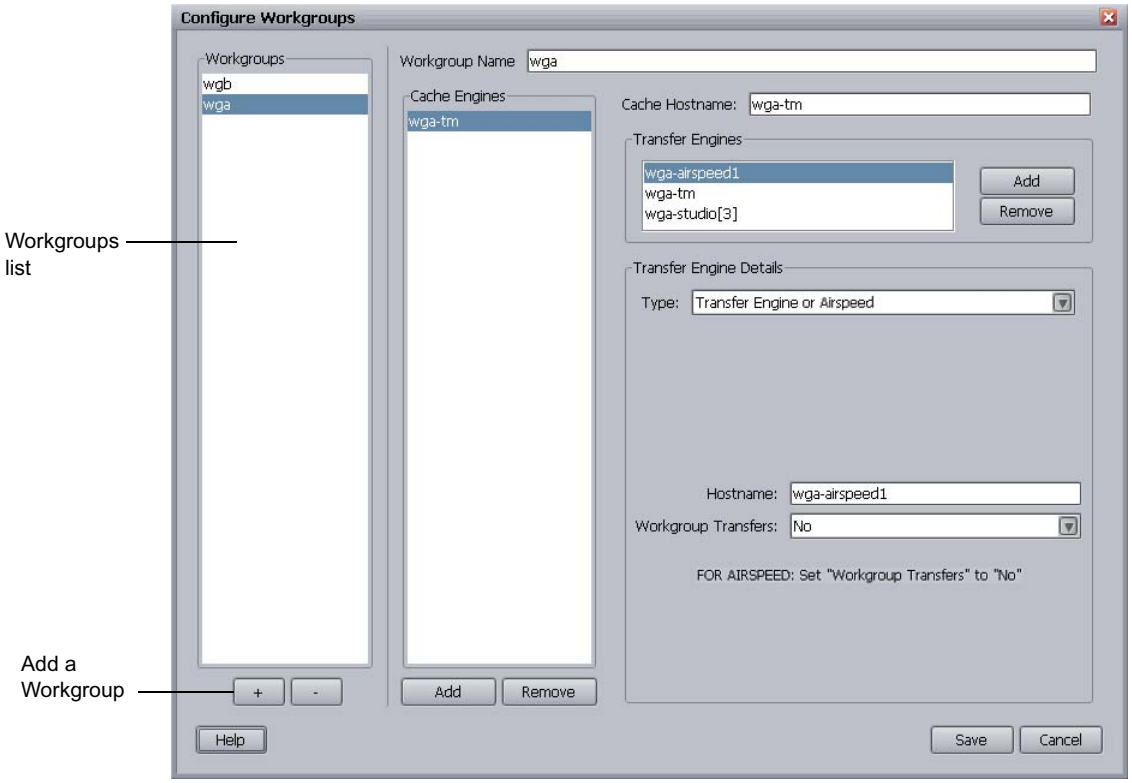
1. Click Start and select All Programs > Avid > Avid Interplay Media Services and Transfer Status.

   The Avid Interplay Media Services and Transfer Status tool opens.
2. Click the Transfer tab.



3. Click Configure Workgroups.

   The Configure Workgroups dialog box opens.



4. To add a workgroup you want to monitor, do the following:

   a. Click + below the Workgroups list.

   b. Change the default workgroup name by typing the name of the workgroup you want to monitor in the Workgroup Name text box.

   c. Press Enter.

   The default name is replaced with the workgroup name you typed.

The workgroups displayed in the Workgroups list appear in the Workgroup menu on the Transfer tab of the Avid Interplay Media Services and Transfer Status tool.

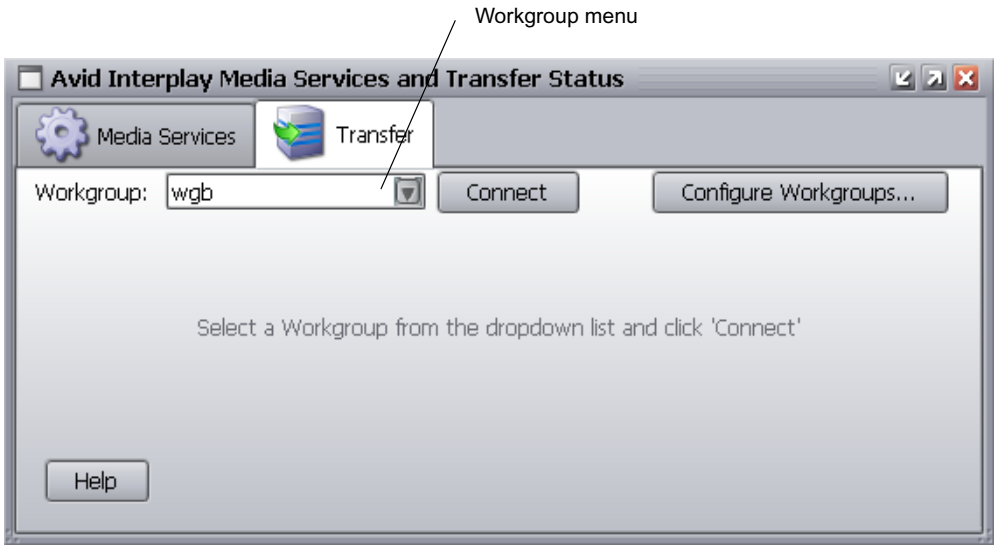
5. Set the various settings to select a cache host and add Interplay Transfer Engines and Interplay Transfer enabled devices to the monitoring list. These settings are similar to the settings in the Interplay Transfer Settings view, except that the Primary Transfer Engine and the Refresh Interval options are not available. For procedures that explain these settings, see "Selecting a Transfer Cache Engine for Monitoring Transfers" on page 51.
6. Click Save.

Monitoring Transfer Status from a Standalone System

To monitor transfers from a standalone system:

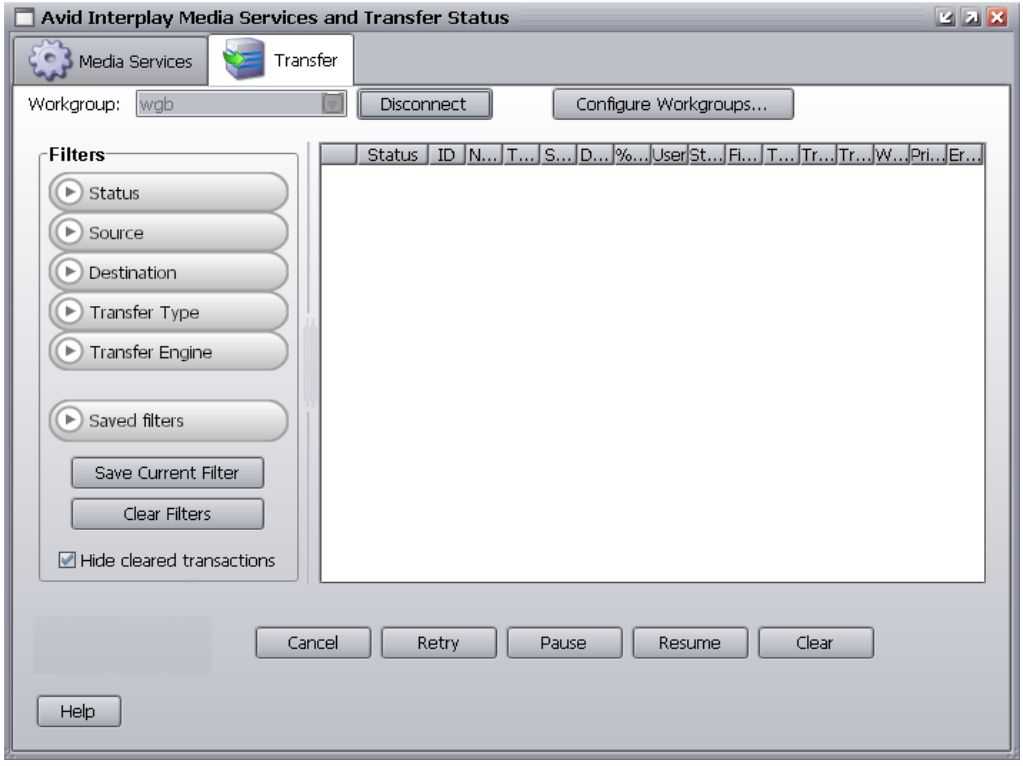
1. Click Start and select All Programs > Avid > Avid Interplay Media Services and Transfer Status.

   The Avid Interplay Media Services and Transfer Status tool opens.
2. Click the Transfer tab.
3. From the Workgroup menu, select the workgroup you want to monitor.



4. Click Connect.

   The status view opens.



For descriptions of the status components, see “Understanding the Interplay Transfer Status Window” on page 127.

Configuring Interplay Transfer in a Standalone Environment

When you are installing Interplay Transfer for workstation-to-workstation transfers in an environment other than Avid Unity, you must install the Interplay Transfer Engine and Interplay Transfer client software on each client. For information on installing the Interplay Transfer software in standalone environments, see "Installing the Interplay Transfer Software in a Standalone Environment" on page 36.

The Avid Instinct and Avid Interplay Assist products are available only in a workgroup environment, therefore, you cannot add them in a standalone environment. These products have their own Interplay transfer software.

The Interplay Transfer Engine software installs the Interplay Transfer Engine configuration software that lets you set up the particular configuration for transfers from your Avid editing system. For descriptions of the various settings on the Interplay Transfer Engine Configuration window, see "Understanding the Avid Interplay Transfer Engine Configuration Settings" on page 40.

Configuring the Avid Editing Application for Transfers

After you install the Interplay Transfer client software on an Avid editing system, you can configure the transfer process.

For procedures on configuring the Avid editing application for transfers, see the following topics:

- Setting Transfer Settings in the Avid Editing Application
- Allowing Transfers to Other Workgroups and Workstations

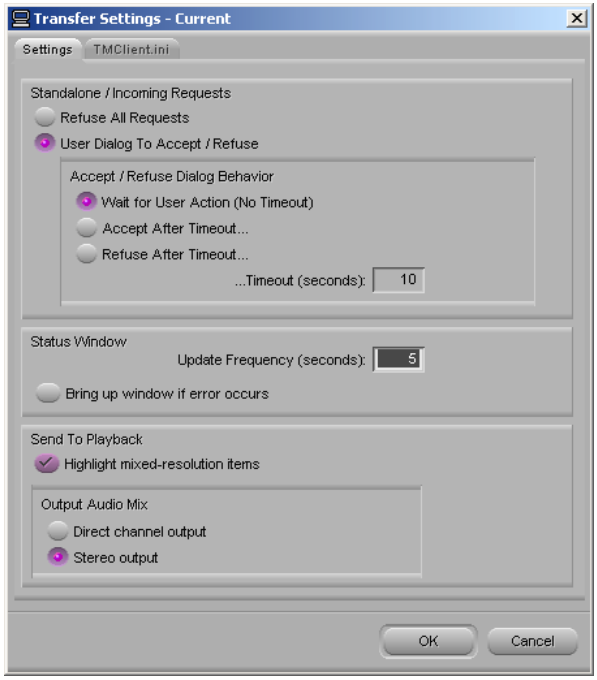
Setting Transfer Settings in the Avid Editing Application

To activate Interplay Transfer each time you start your Avid editing application and to have the application notify you of incoming transfers:

1. In the Avid editing application, click the Settings tab in the Project window.
2. Double-click Transfer in the Settings list.

   The Transfer Settings dialog box opens.

3. Click the Settings tab.



4. In the Standalone/Incoming Requests area, do one of the following:
   - Select “Refuse All Requests,” if you do not want to receive files from another workgroup.
   - Select “User Dialog To Accept/Refuse,” and one of the following methods for accepting transfers:

     Wait for User Action (No Timeout) — You receive a message request for a transfer. You must click OK for the transfer to occur.

     Accept After Timeout — The system automatically accepts the file after the timeout.

     Refuse After Timeout — The system does not accept the file after the timeout.

     In the Timeout (seconds) text box, type the amount of time you want to set for the timeout.
5. In the Status Window area, do the following:
   a. In the text box, type the number of seconds you want the status window to update.
   b. (Option) Select “Bring up window if error occurs” if you want errors to display.

6. (Option) In a workgroup environment, if you want mixed-resolution items highlighted in the bin, select “Highlight mixed-resolution items” in the Send to Playback area.

   If a sequence contains DV 25 and DV 50 media within the same sequence, that sequence is highlighted in red in the bin. Interplay Transfer cannot send sequences that contain both DV 25 and DV 50 media to playback. This feature allows you to easily identify those sequences.

7. In the Output Audio Mix area, select the type of audio output you want.
   - Direct channel output - Send to Playback transfers audio tracks without performing a mixdown.
   - Stereo output - Send to Playback mixes all of the tracks to a stereo pair, using pan controls to split the tracks. The sequence is copied before the mixdown is edited in, and the suffix .transfer is added to the name (same as in the direct output option).
8. Click OK.

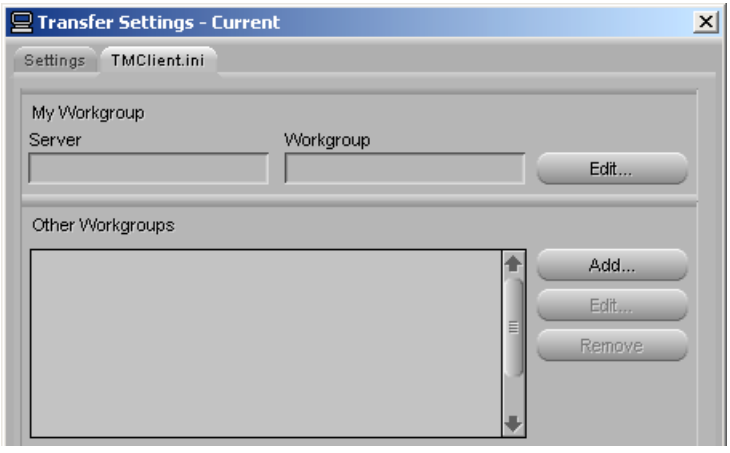
Allowing Transfers to Other Workgroups and Workstations

Depending on your environment, you can transfer items to other workgroups and workstations that have Interplay Transfer software installed.

To allow transfers to other workgroups and workstations:

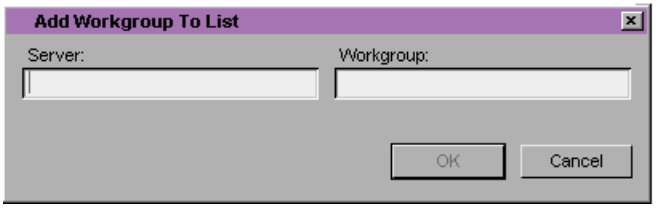
1. In the Avid editing application, click the Settings tab in the Project window.
2. Double-click Transfer in the Settings list.

   The Transfer Settings dialog box opens.
3. Click the TMClient.ini tab.



4. Do one of the following:
   - In a workgroup environment, type the Interplay Transfer server computer name in the Server text box, and type the name of your workgroup in the Workgroup text box. This can be any name you give your workgroup.
   - In a standalone environment, type the computer name of the local system (this computer) in the Server text box, and in the Workgroup text box, type the name you want to see in the Transfer menu.
5. In the Other Workgroups area, click Add.

   The Add Workgroup To List dialog box opens.



6. Do one of the following:
   - In a workgroup environment, type the name of the other Interplay Transfer server in the Server text box, and type the name of the your workgroup in the Workgroup text box.
   - In a standalone environment, in the Server text box, type the computer name of other workstation, and in the Workgroup text box, type the name you want to see in the Transfer menu.
7. Click OK.

   The name you typed displays in the Other Workgroups list.

If you want to edit the names of any of the Interplay Transfer servers or workstations listed in the Other Workgroups area, select the name, click Edit, and make the changes.

Configuring Capture and Play Back of MXF DHM OPIa File Formats

To enable interoperability between Avid Unity family and third-party devices that use the MXF OP1a file format, Avid has developed an optional Avid Interplay Transfer Data Handling Module (DHM) plug-in that supports FTP integration to third-party MXF OP1a compliant devices. The Interplay Transfer MXF OP1a FTP DHM allows MXF OP1a files to be brought into an Avid Unity, Avid Unity ISIS, or an Avid editing environment from an FTP server. You can also export Avid media files in MXF OP1a format to an FTP server using this same MXF OP1a FTP DHM.

Depending on the type of FTP server you are configuring, you might need to perform some specific procedures:

- Thunder production server, see "Adding a Thunder Production Server" on page 78

You must do the following to integrate a FTP server into a workgroup:

- Select "Interplay Transfer Server with Supplemental FTP Services" as the installation type when installing the Interplay Transfer Engine application. See "Installing the Interplay Transfer Engine in a Workgroup Environment" on page 29.

After the installation, you can verify the FTP DHM is installed by using the Dongle Dumper. To open the Dongle Dumper, navigate to C:\Program Files\Avid\Utilities\Dongle Dumper.

- Configure the FTP parameters for the FTP server. See "Configuring an FTP Server Profile" on page 67.
- Configure an FTP playback device using the Avid Interplay Transfer Engine Configuration dialog box. See "Configuring a Generic FTP Playback Device into a Workgroup" on page 70.
- Configure an FTP ingest device using the Avid Interplay Transfer Engine Configuration dialog box. See "Configuring a Generic FTP Ingest Device into a Workgroup" on page 71.
- Create an FTP directory profile. See "Creating and Editing FTP Directory Profiles on Interplay Transfer Client" on page 72.

For FTP transfer procedures, see "Transferring To and From Generic FTP Servers" on page 103.

Configuring an FTP Server, FTP Playback, and FTP Ingest Devices

The Avid Interplay Transfer Engine Configuration dialog box provides areas for configuring an FTP server, FTP playback, and FTP ingest devices.

For information about adding specific servers:

- Thunder MX production server, see "Adding a Thunder Production Server" on page 78

Configuring an FTP Server Profile

When adding an FTP server to your workgroup environment, you need to create an FTP server profile for the server's FTP parameters.

After you create a profile of the FTP parameters for the FTP server, you cannot edit the Profile Name, Default Directory, or FTP Mode settings. If you need to change these settings, you will need to create a new profile for the FTP server.

To create a profile for the FTP server's configuration in a workgroup:

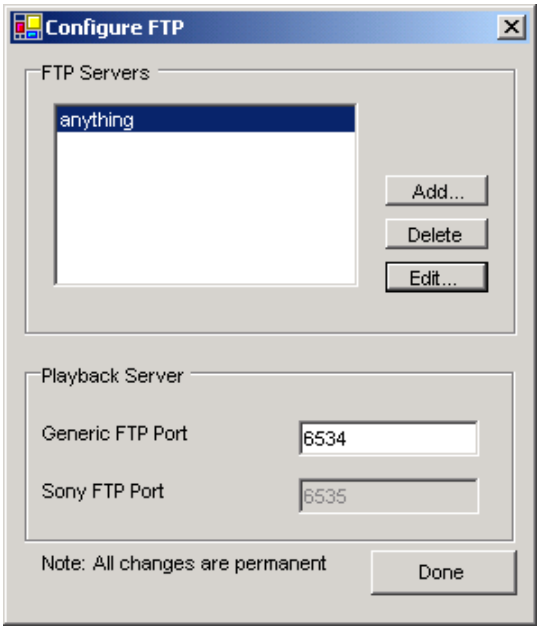
1. On your Interplay Transfer server, click the Start button, and select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

   The Avid Interplay Transfer Engine Configuration dialog box opens.

2. Click the Configure FTP Parameters button.

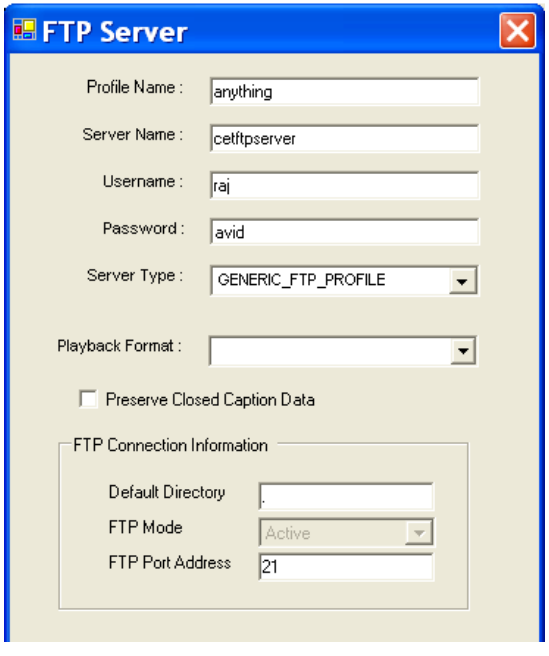
   The Configure FTP dialog box opens.

If the Configure FTP Parameters button is not available, then "Interplay Transfer Engine with Supplemental FTP Services" was not selected as the installation type when the Interplay Transfer Engine application was installed. You'll need to reinstall the Avid Interplay Transfer Engine software.



3. Click Add.

   The FTP Server dialog box opens.



4. Enter the following setup information for the FTP server you are configuring:

FTP Server configuration

Setting	Description
Profile Name	Type a name of this profile. *The name you assign to the profile appears in the FTP Media Browser application and Send to Playback list.*
Server Name	Type the name of the FTP server.
Username	Type the user name used to connect to the FTP server.
Password	Type the password used to connect to the FTP server.
Server Type	Select the type of server in the workgroup: GENERIC_FTP_PROFILE, MEDIA_STREAM_PROFILE, OMNEON_SERVER_PROFILE, D10_PROFILE, SONY_XDCAM_PROFILE.
Playback Format	Not used - for a future release of Interplay Transfer.
Preserve Closed Caption Data	Not used - for a future release of Interplay Transfer.
FTP Connection Information	
Default Directory	Displays the directory on the FTP server where data is sent to or retrieved from. Type a period (.) in the field to point to the home directory of the user that is configured on the FTP server.
FTP Mode	Displays the FTP mode as active.
FTP Port Address	Type the FTP connection port. The default is 21.

5. Click OK.
6. On the Configure FTP dialog box, type the port number in the Generic FTP Port text box. Avid recommends using 6534.
7. Click Done.

Configuring a Generic FTP Playback Device into a Workgroup

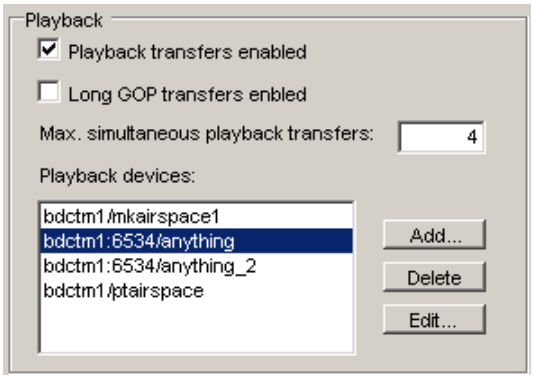
When adding a Generic FTP playback device into your workgroup environment, you need to configure the device using the Interplay Transfer Engine Configuration dialog box.

To add a generic FTP playback device into a workgroup:

1. On your Interplay Transfer Engine, click the Start button, and select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

   The Interplay Transfer Engine Configuration dialog box opens.

2. In the Playback area, click Add.



   The Device dialog box opens.

3. Type the name associated with the Generic FTP playback device on the network, for example: *bdctm1:6534/anything*, where

   - ***bdctm1*** is the Interplay Transfer server name
   - ***6534*** is the Generic FTP port address for the playback device

The port number used for the playback device must match the Generic FTP Port number on the Configure FTP dialog box. See "Configuring an FTP Server Profile" on page 67.

   - ***anything*** is the FTP profile name that contains the information required to connect to a particular directory on a FTP server. See "Creating and Editing FTP Directory Profiles on Interplay Transfer Client" on page 72.

4. (Option) You can assign a playback catalog for transfers; see "Configuring a Playback Device Catalog" on page 83.
5. Click OK.
6. Click Save.

Configuring a Generic FTP Ingest Device into a Workgroup

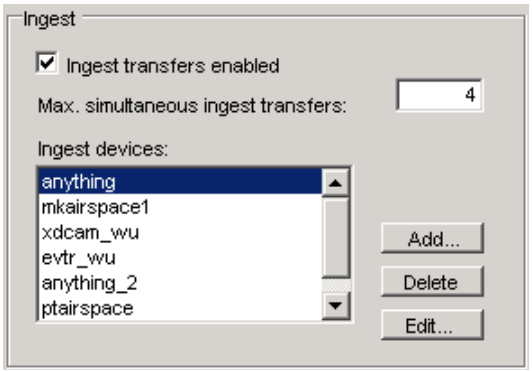
When adding a Generic FTP ingest device into your workgroup environment, you need to configure the device using the Avid Interplay Transfer Engine Configuration dialog box.

To add a Generic FTP ingest device into a workgroup:

1. On your Interplay Transfer Engine, click the Start button, and then select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

   The Interplay Transfer Engine Configuration dialog box opens.

2. In the Ingest area, click Add.



   The Device dialog box opens.

3. Type the name of the FTP profile that contains the information required to connect to a particular directory on a FTP server. See "Configuring an FTP Server Profile" on page 67.

When adding an ingest device, you do not need to type the host name of the Interplay Transfer server or the port address of the ingest device. The FTP profile provides this information.

4. Click OK.
5. Click Save.

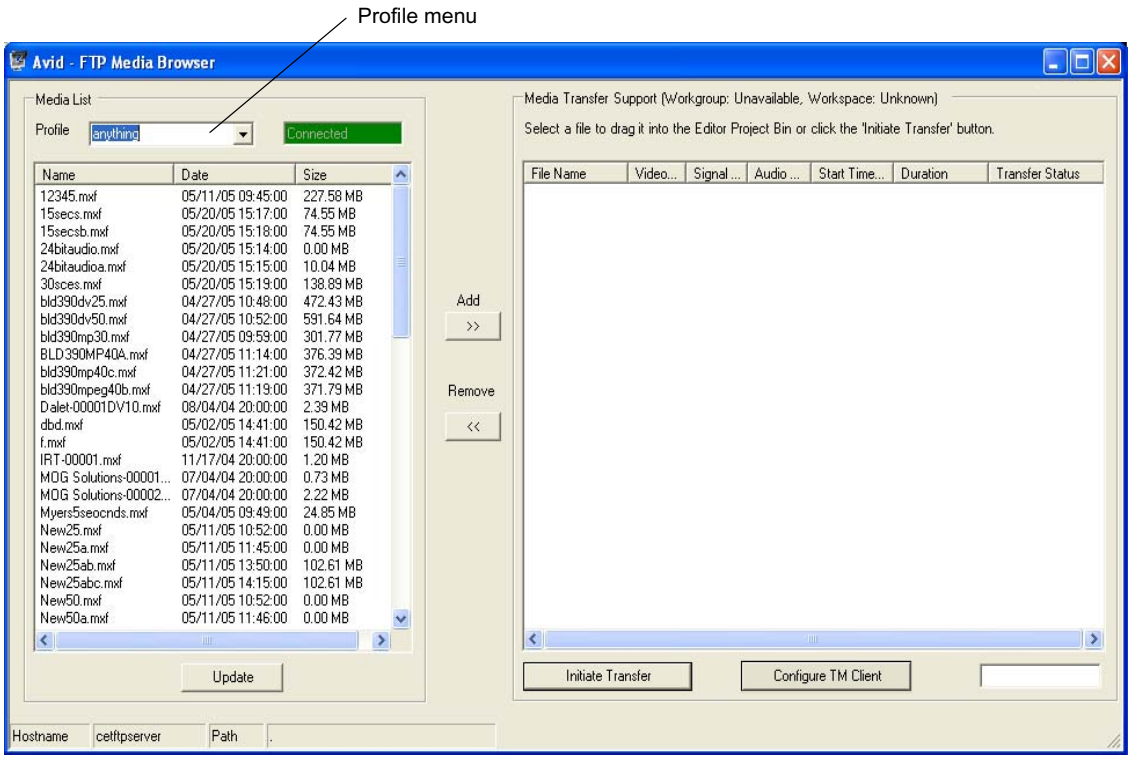
Creating and Editing FTP Directory Profiles on Interplay Transfer Client

When a workgroup includes an FTP server, you need to create FTP directory profiles on the Interplay Transfer client that allows the FTP server to connect with the Avid editing system. The FTP Directory Profile must contain the same connection information as the Avid Interplay Transfer Engine Configuration settings.

To create and edit FTP directory profiles:

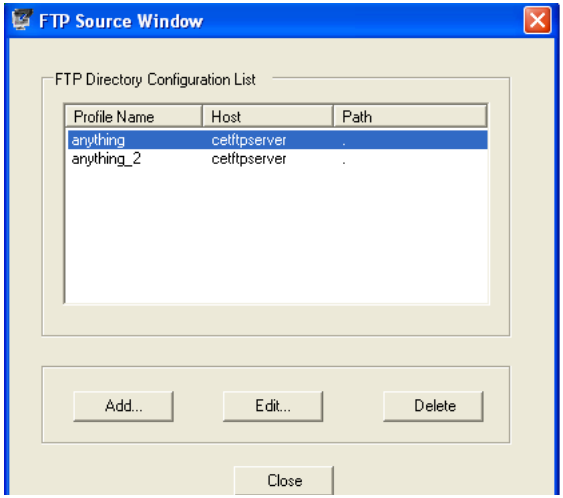
1. From the Avid editing system, click the Start button, and then select All Programs > Avid > Utilities > Avid FTP Media Browser.

   The Avid - FTP Media Browser application opens.



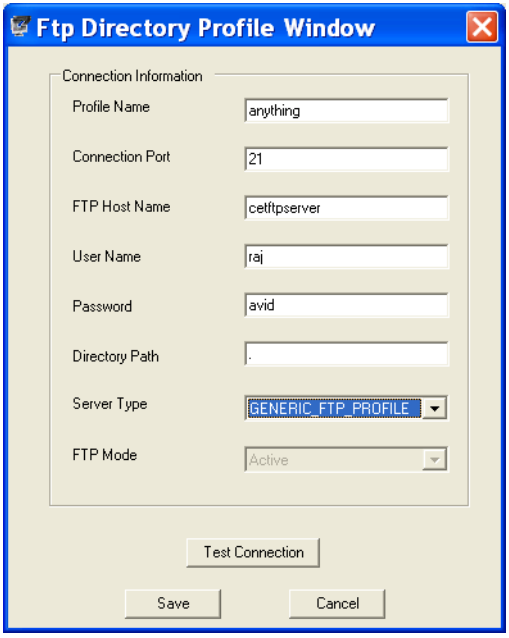
2. Right-click the Profile menu and click Open Profile Window.

The FTP Source Window opens, providing a list of FTP directory profiles.



3. Do one of the following:
   - Click Add to add a new profile.
   - Select a Profile Name and click Edit to edit an existing profile.

   The Ftp Directory Profile Window opens.



4. Type the following configuration information for the FTP server:

Your entries must match the FTP server's network settings.

Ftp Directory Profile Window Settings

Setting	Description
Profile Name	Name of this profile. A unique profile name is used for each directory.
Connection Port	Displays the port number used by the FTP server (not the playback port).
FTP Host Name	Type the FTP server's network name. This FTP host name must match the server name assigned during the configuration of the FTP parameter. See "Configuring an FTP Server Profile" on page 67.
User Name	Type your user name.
Password	Type the FTP server's password.
Directory Path	Displays the default directory where the source media is located on the FTP server.
Server Type	Select the type of server in the workgroup: GENERIC_FTP_PROFILE, MEDIA_STREAM_PROFILE, OMNEON_SERVER_PROFILE.
FTP Mode	Displays the FTP mode as Passive or Active.

5. (Option) Click Test Connection if you want to verify that the connection to the FTP directory is working.
6. Click Save.

Configuring the Interplay Transfer Client For Direct Captures

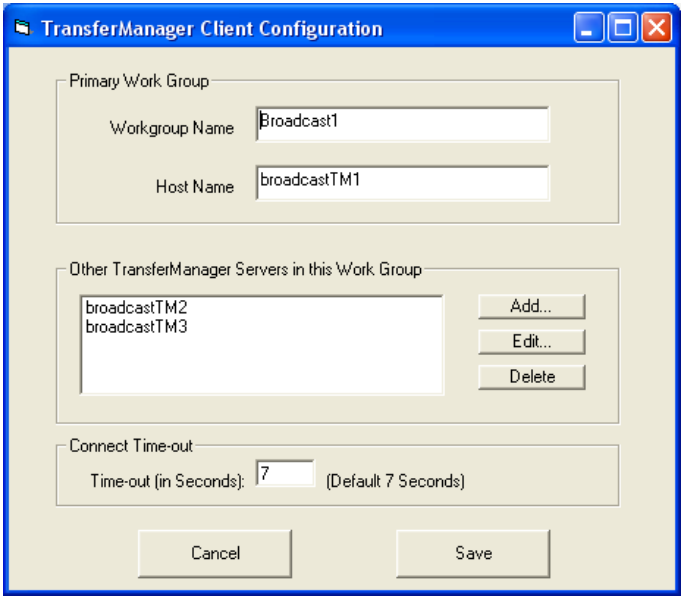
Before you can use the Direct Capture method to capture media directly from FTP devices and FTP servers, you need to configure the Interplay Transfer client.

For procedures on performing direct captures, see "Workflow: Capturing Clips From an FTP Server" on page 105 and "Capturing Clips From FTP Devices" on page 110.

To configure an Interplay Transfer client for directly capturing media:

1. Click Configure TM Client on the FTPClipList dialog box or Avid - FTP Media Browser dialog box.

The TransferManager Client Configuration dialog box opens.



2. In the Workgroup Name text box, type the name of your workgroup. This name can be any name you have given your entire workgroup.
3. In the Host Name text box, type the computer name of the Interplay Transfer Engine.
4. (Option) If you have more than one Interplay Transfer Engine in your workgroup, you can enter them in this dialog box.
   a. Click Add and type the computer name of the other Interplay Transfer Engine.
   b. Click OK.
5. Click Save.
6. Click OK in the Restart Information dialog box.
7. Click “Yes, I want to restart my computer now” and click Finish.

Configuration for Playing Back to Sony XDCAM SD Device

The generic configuration procedures for play back to all supported devices are described in the "Configuring Capture and Play Back of MXF DHM OPIa File Formats" on page 66. When you configure an XDCAM SD device some settings in the procedures require specific information. The following sections provide information about the specific XDCAM SD settings.

When setting up an XDCAM device for FTP write back (Send to Playback), set the XDCAM device to 16x8 mode (16 bit / 8 channel). The 24x4 mode (24 bit / 4 channels) is not supported for FTP write back.

For procedures on how to transfer files to an XDCAM SD device, see "Workflow: Play Back to an FTP Server" on page 108.

Creating an FTP Server Profile for an XDCAM SD Device

For procedures on creating an FTP Server Profile, see "Configuring an FTP Server Profile" on page 67. When adding a profile for XDCAM SD set the options in the FTP Server dialog box as follows:

FTP Server dialog box

Settings	Description
Profile Name	Type a name for the profile *The name you assign to the profile appears in the FTP Media Browser and Send to Playback list.*
Server Name	Type the name of the FTP server; device IP address, device DNS Name.
Username	admin *You must use this username.*
Password	Type the model name of the XDCAM device. For example, PWD-1500.
Server Type	Select SONY_XDCAM_PROFILE.
Playback Format	Not used - for a future release of Interplay Transfer.
Preserve Closed Caption Data	Not used - for a future release of Interplay Transfer

FTP Server dialog box (Continued)

Settings	Description
FTP Connection Information	
Default Directory	Displays the directory on the FTP server where data is sent to or retrieved from.
FTP Mode	Displays the FTP mode as active.
FTP Port Address	Type the FTP connection port. The default is 21.

Setting the Port Used for the XDCAM SD Device

Configure FTP dialog box

Setting	Description
Playback Server area	
Sony FTP Port	Type the port number used by the XDCAM device.

Setting Avid Editing Application for Playback to XDCAM SD Device

Transfer Settings in Avid Editing Application

Setting	Description
Output Audio Mix	Select Direct channel output - This option lets Send to Playback transfer audio tracks without performing a mixdown.  *DVCAM requires 1-to-1 audio. Your sequence must contain 4 audio tracks.*

Adding a Thunder Production Server

To configure the Interplay Transfer Engine to add a Thunder production server, follow the procedures for configuring a Generic FTP device. For the procedures, see "Configuring Capture and Play Back of MXF DHM OPIa File Formats" on page 66.

In addition to these configuration procedures, the Thunder server needs an ImportWatcher folder to hold the files during transfers from the Avid editing system. After the transfers are complete the files are moved from the ImportWatcher folder to the Clip folder in the Thunder server's database. The files in the Clip folder are used during a transfer from the Thunder server to the Avid editing system.

To transfer files to or from a Thunder server, the Interplay Transfer Engine requires the "Avid Interplay Transfer Server with Supplemental FTP Services" option during installation.

Before you can transfer files, the Thunder server requires the following setup. For procedures, see the Thunder documentation:

- Verify the Thunder server has at least one database.
- Verify the Thunder server and all Avid editing systems have the same timecode settings (Drop Frame or non-Drop Frame) and video standard (NTSC or PAL).
- Setup and enable the ImportWatcher folder.
- Install and configure the third-party FTP server software to create a Send user and a Retrieve user that match the users set up on the Avid editing system.

For procedures on how to transfer files to and from a Thunder server, see "Transferring To and From Generic FTP Servers" on page 103.

Configuring Ingest From FTP Deck Devices

TM-DHM is Avid's API to integrate with third-party video server vendors. Avid has written its own integration to the DHM API for the Sony e-VTR and XDCAM deck devices. The integration supports MXF files by rewrapping them in AAF (MXF workgroup) as they are brought into Avid Unity shared storage through the Interplay Transfer Engine. You need to configure the FTP deck device before you can capture media from it. For procedures on how to capture clips, see "Transferring Files From FTP Deck Devices" on page 109.

The following configuration and setup steps are required to integrate a FTP device into a workgroup:

1. Select “Interplay Transfer Server with Supplemental FTP Services” as the installation type when installing the Interplay Transfer Engine application. See “Installing the Interplay Transfer Engine in a Workgroup Environment” on page 29.
2. Add the ingest device to the Interplay Transfer configuration. See “Adding FTP Ingest Devices into an Interplay Transfer Engine Configuration” on page 79.
3. Set up the device connection from the Avid editing system. For the connection setup procedure, see “Setting the Ingest Device Connection” on page 80.
4. Capture the clips from a FTP device. See “Transferring Files From FTP Deck Devices” on page 109.

Adding FTP Ingest Devices into an Interplay Transfer Engine Configuration

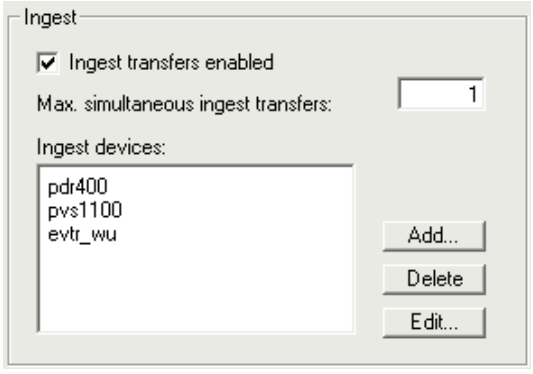
When configuring an FTP ingest device into your workgroup environment, you need to add the device to the Interplay Transfer Engine configuration.

To add an FTP ingest device to your Interplay Transfer Engine configuration:

1. On the Interplay Transfer Engine, click the Start button, and then select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

   The Interplay Transfer Engine Configuration window opens.

2. In the Ingest area, click Add.



   The Device dialog box opens.

3. Type the name associated with the ingest device on the network, for example evtr_wu.
4. Click OK.

5. (Option) Add an ingest catalog. See "Configuring an Ingest Device Catalog" on page 82.
6. Make sure the Workgroup Settings are set correctly. See the table in "Understanding the Avid Interplay Transfer Engine Configuration Settings" on page 40.
7. Click Save.

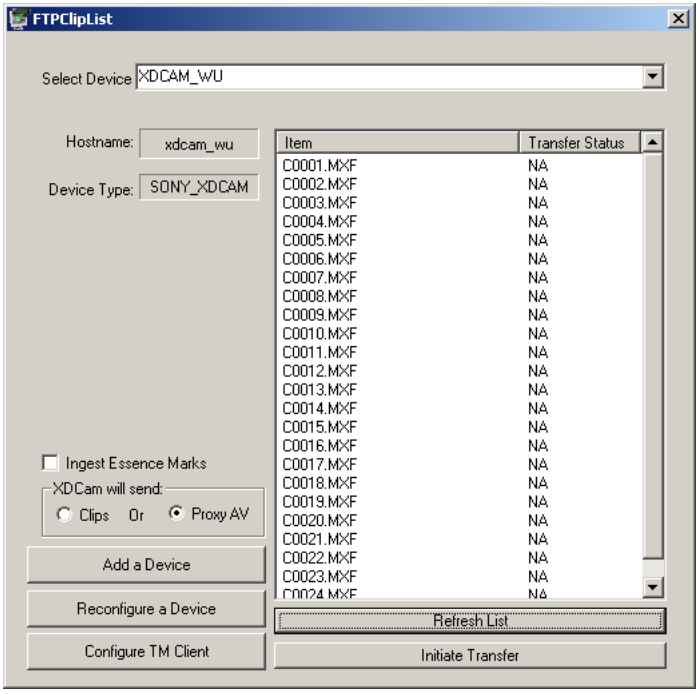
Setting the Ingest Device Connection

When a workgroup includes an FTP device, you need to set the device connection from the Avid editing system.

To set up a connection to ingest from FTP devices, such as an Sony XDCAM:

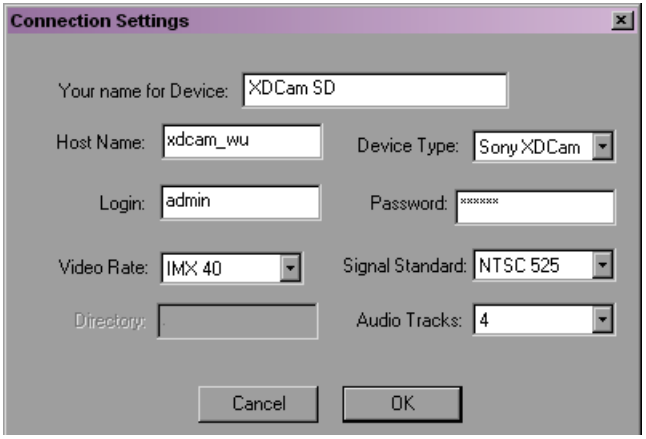
1. From the Avid editing system, click the Start button, and then select All Programs > Avid > Utilities > FTPClipList.

   The FTPClipList dialog box opens.



2. Click Add a Device or Reconfigure a Device.

The Connection Settings dialog box opens.



3. Enter the following setup information for the device you are configuring:

Your entries must match the device's network settings.

Connection Settings Dialog Box

Setting	Description
Your name for Device	Type a name to identify the device.
Host Name	Device's network server name. This host name must match the host name listed in the ingest device list in the Avid Interplay Transfer Engine Configuration window.
Login	Device's login name.
Password	Device's password.
Device Type	Select the type of device.
Video Rate	Select the video rate - for example, IMX 30, 40, 50, or DVCam™. Your selection must match the set rate of the device.
Signal Standard	Select PAL or NTSC. Your selection must match the setting of the device.
Directory	Displays the default directory where the source media is located on the FTP device for ingesting.
Audio Tracks	Select the number of audio tracks you want to ingest (2, 4, 6, or 8).

4. Click OK.

Configuring an Ingest Device Catalog

When configuring an ingest device into your workgroup environment, you can associate a Avid Interplay Access Catalog with the ingest device. The ingest catalog contains master clips of the media created during successful ingest transfers. You can associate more than one ingest device to a catalog. The ingest catalog is a regular Avid Interplay Access catalog using the same display, access control, and delete rules.

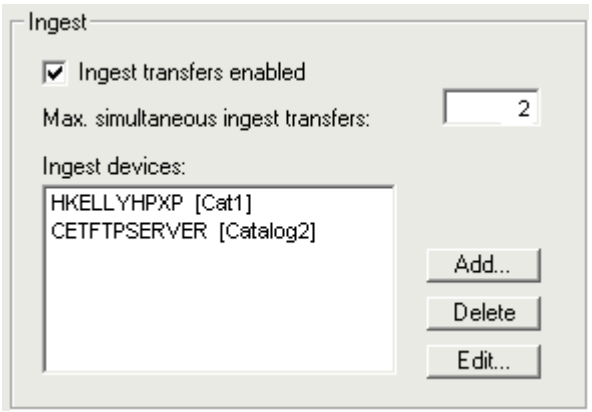
When the first ingest occurs after you set up an ingest catalog, the Interplay Transfer creates the catalog in the Avid Interplay Access tree view.

Associating a catalog with an ingest device does not effect the usual process of checking in ingested clips to a workspace.

The ingest catalog feature is not available with AirSpeed.

To associate an Avid Interplay Access Catalog with an ingest device:

1. On the Interplay Transfer Engine, click Start, and then select All Programs > Avid > Avid Interplay Transfer Engine Configuration.
2. In the Ingest area, select an ingest device and click Edit.



   The Device dialog box opens.
3. Select Enter Ingest Catalog name.
4. Type a name for the ingest catalog.

   The catalog name you enter displays in the Avid Interplay Access when the first ingest occurs.

5. Click OK.

   The catalog name displays inside square brackets and next to the ingest device name.

   For example, HKELLYHPXP [Cat1], where HKELLYHPXP is the ingest device name and Cat1 is the catalog name.

6. Click Save.
7. Restart the Interplay Transfer server.

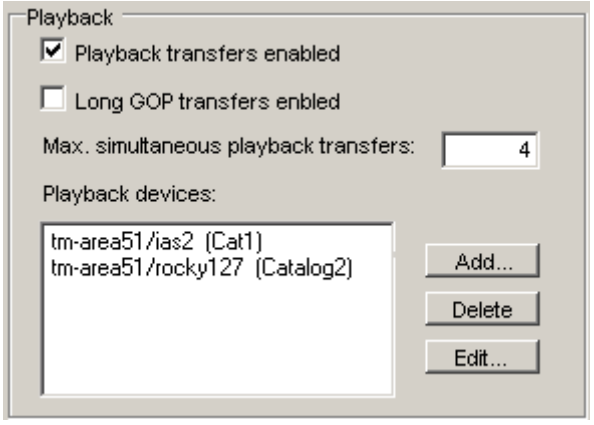
Configuring a Playback Device Catalog

When configuring a playback device into your workgroup environment, you can associate a Avid Interplay Access Catalog with the playback device. The playback catalog contains clips of the media and all its relatives, including the .transfer sequences, that successfully transfer to the playback device. You can associate more than one playback device to a catalog. The playback catalog is a regular Avid Interplay Access catalog using the same rules for display, access control, and delete.

The playback catalog feature is not available with AirSpeed.

To associate an Avid Interplay Access Catalog with a playback device:

1. On the Interplay Transfer Engine, click Start then select All Programs > Avid > Avid Interplay Transfer Engine Configuration.
2. In the Playback area, select a playback device and click Edit.



   The Device dialog box opens.

3. Select Enter Playback Catalog name.

4. Type a name for the playback catalog.

   The catalog name you enter displays in the Avid Interplay Access Catalog when the first transfer occurs.

5. Click OK.
6. Click Save.
7. Restart the Interplay Transfer server.

Configuring the AutoTransfer Service

This section describes how to use the Avid Interplay Service Configuration to configure the AutoTransfer service. Avid Interplay Service Configuration is an application that lets you set and change parameters for each of the different Avid services and applications in your workgroup environment.

To configure the Avid AutoTransfer service using Interplay Framework:

1. On any system with the Interplay Service Configuration application installed, click the Start button, and select All Programs > Avid > Interplay Framework > Avid Interplay Service Configuration.

   The Select Workgroup dialog box opens.

The Select Workgroup dialog box does not open if the option specifying to always select and use this workgroup option was previously selected. When you select this option, the Select Workgroup dialog box no longer opens when you start the application. The default workgroup is selected, and the Avid Interplay Service Configuration window opens.

2. Select the workgroup to which you want to connect and click Select.

   The Avid Interplay Service Configuration window opens.

3. In the Directory pane, click the Processes tab and verify that the Avid Automatic Archive, Transcode, and Transfer process is running.

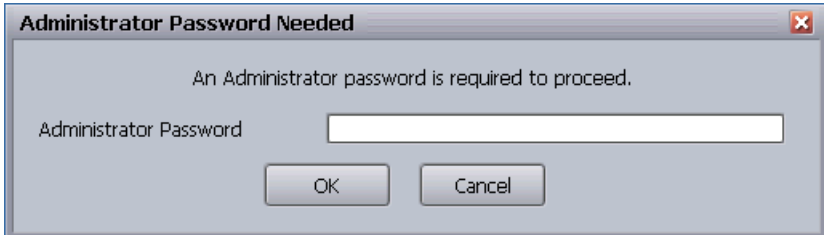
If the Avid Automatic Archive, Transcode, and Transfer service does not appear in the Avid Interplay Service Configuration window, then the service is not running or the system it runs on is not properly connected to the workgroup. Click the Hosts tab and make sure that the Interplay Framework services displays the name of the system that the Avid Automatic Archive, Transcode, and Transfer service is running on.

4. Expand the Avid Automatic Archive, Transcode, and Transfer service entry in the Directory pane.

   The system displays the name of the computer running the Avid Automatic Archive, Transcode, and Transfer service.

5. Click the computer name.

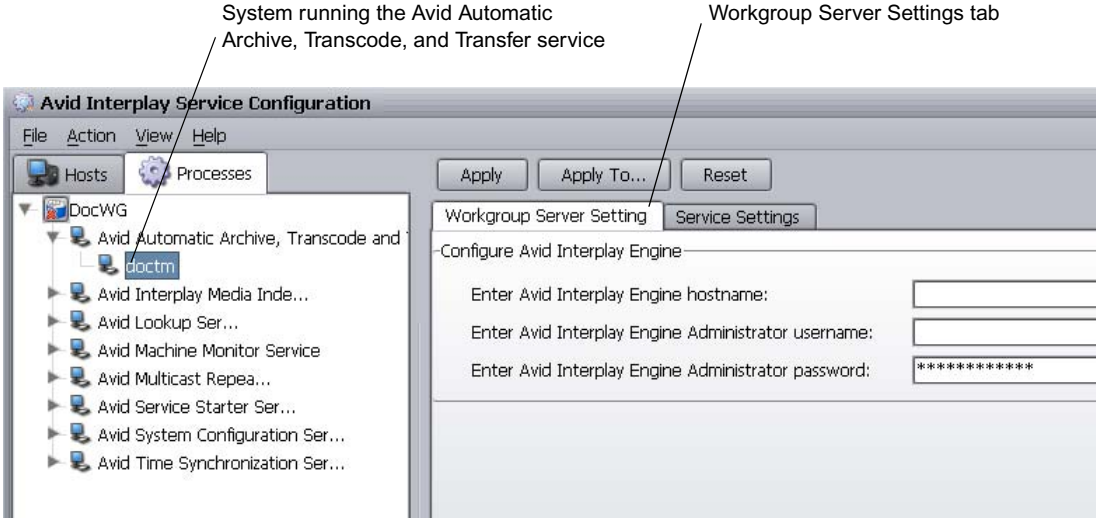
   The Administrator Password Needed dialog box opens.



6. Type the Interplay Framework Administrator password and click OK.

By default, Interplay Framework does not require a password. When a password is used, it is set through the System Configuration Service. Check with your system administrator for the correct password.

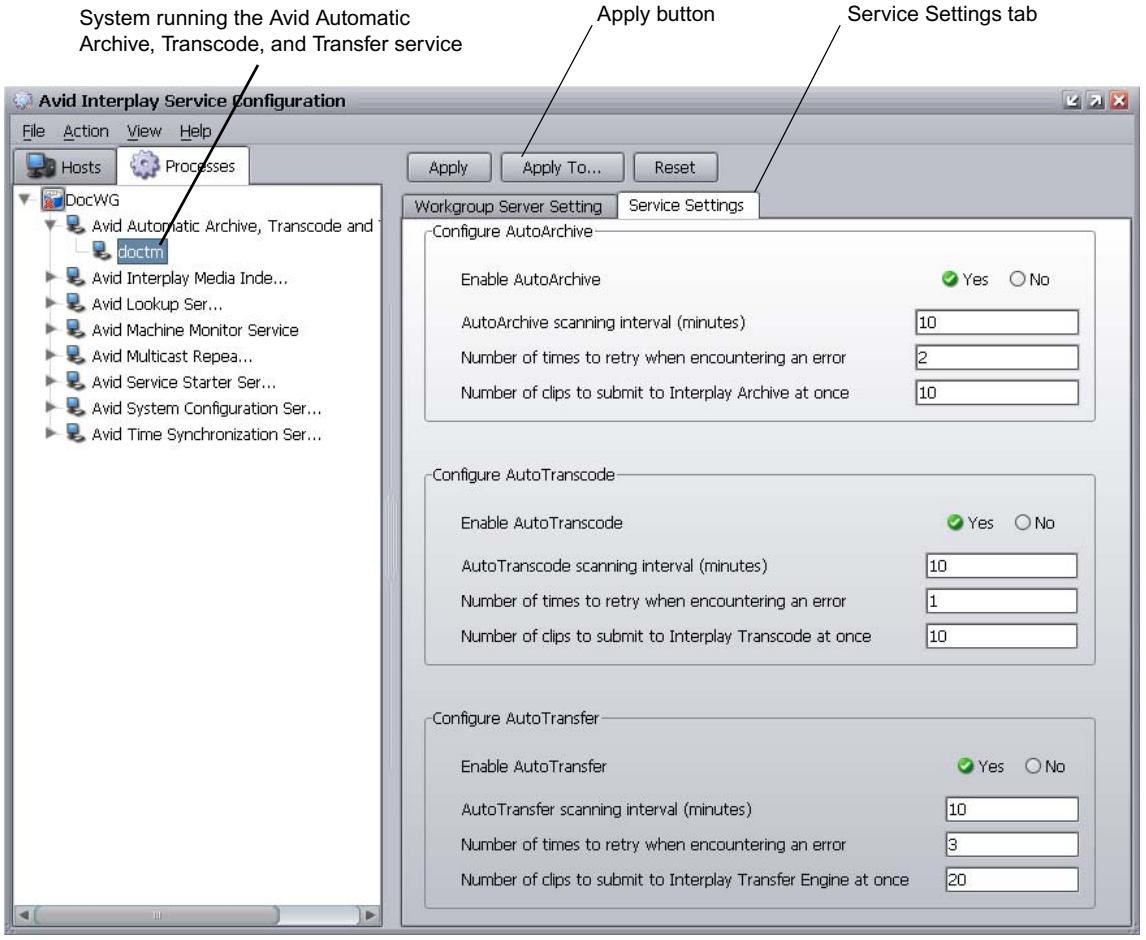
The system displays the Workgroup Server Setting tab for the Avid Automatic Archive, Transcode, and Transfer service.



7. Type the Interplay Engine hostname, user name, and password.

8. Click the Service Settings tab.

   The system displays the Service Settings for the Avid services.



9. In the Configure AutoTransfer area, do the following:
   - Enable AutoTransfer—select Yes.
   - AutoTransfer scanning interval—type the number of minutes between scans.
   - Number of times to retry when encountering an error—type the number of times you want the system to retry after an error occurs.
   - Number of clips to submit to Interplay Transfer Engine at once—type the number of clips you want sent for transfer at one time.

10. Click Apply.
11. Close the Avid Interplay Service Configuration window.

When configuration changes are made and the Apply or Reset button is not clicked prior to changing a selection or closing the window, a dialog box appears reminding you to Apply or Reset the configuration.

Chapter 4
Transferring Avid Assets

This chapter describes how to transfer Avid assets. You can transfer assets to another workgroup or to any supported media servers.

Before you can transfer assets, you must configure the Interplay Transfer components. For configuration procedures, see “Interplay Transfer Configuration” on page 39.

This chapter discusses the following topics:

Media Compatibility Between Avid Applications

The type of system on which your application is running determines what can be sent between systems. Before you transfer data between Avid applications, consider whether the media files, metadata, or compositions are compatible between applications.

For additional information about compatibility, see the documentation provided with your Avid editing system.

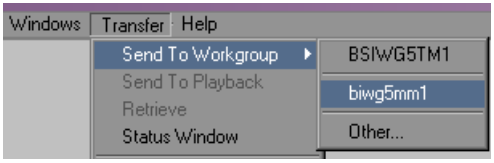
Transferring Avid Assets from an Avid Editing Application

If Interplay Transfer is properly installed and enabled on your Avid editing system, it starts automatically whenever you start the Avid editing application. When you complete a sequence, you can transfer it from the Avid editing application to any other connected workgroup or to a playback device. Once you send the sequence, you can work on another project while the transfer is taking place.

For information about configuring the Avid editing application for transferring assets, see "Configuring the Avid Editing Application for Transfers" on page 62.

To send clips or sequences to another workgroup from within the Avid editing application:

1. Open the bin that contains the clips or sequences you want to send.
2. Select a clip or sequence, or Ctrl+click multiple clips or sequences.
3. Select Transfer > Send To Workgroup and then select the available workgroup to which you want to send the assets.



The assets are sent to the Interplay Transfer server, where they are then sent to the selected workgroup. You can now work on another project while the transfer is taking place.

For information on monitoring the transfer of assets, see "Monitoring Transfers from Within the Avid Editing Application" on page 124.

Transferring Avid Assets from Workgroup to Workgroup

This section explains how to transfer assets from one workgroup to another workgroup. If you want to transfer assets to another workgroup, you must have the Interplay Transfer application installed in the workgroup.

Types of workgroup transfers:

- Transferring Avid Assets from an Interplay Workgroup to Another Workgroup
- Transferring Avid Assets from Workgroup 4.5 to an Interplay Workgroup

Transfers from Avid Interplay to Workgroup 4.5 OMF are not supported.

Transferring Avid Assets from an Interplay Workgroup to Another Workgroup

The Avid Interplay Access lets you use Interplay Transfer to transfer assets from one workgroup to another. The workgroup you are transferring the asset to can be either an Interplay workgroup or a Workgroup 4.5 MXF/AAF workgroup.

Before you can transfer assets to another workgroup, the remote workgroup must be registered in your local workgroup. The remote workgroups are configured in the Configure Remote Workgroups view in the Avid Interplay Administrator. All configured remote workgroups display in the Destination tree of the Send to Workgroup dialog box. For information about registering a remote workgroup, see “Configuring a Remote Workgroup for Workgroup to Workgroup Transfers” on page 56.

You can use presets to select a predefined destination for the transferring assets. For procedures on configuring transfer presets, see “Configuring Workgroup Transfer Presets” on page 47.

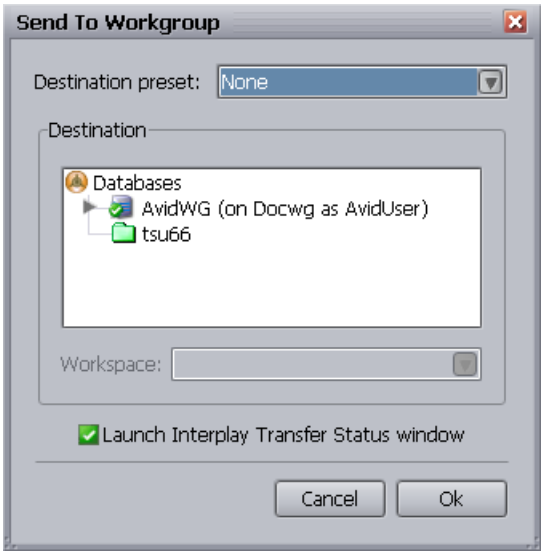
To transfer Avid assets to another workgroup:

1. If you have not already done so, start your local Avid Interplay Access.
   - Click Start and select All Programs > Avid > Avid Interplay Access.
2. Start the remote Avid Interplay Access.
3. In your local Avid Interplay Access, select the assets that you want to transfer to the remote Avid Interplay Access.

The assets you select must be Avid assets. You cannot transfer file assets, such as folders or graphic files.

4. Select Tools > Send to Workgroup.

   The Send to Workgroup dialog box opens.



Green folders in the Destination list specify MediaManager and TransferManager workgroups.

5. To select a destination for the transferring assets, do one of the following:

   - If your workgroup configuration contains presets, then you can select a preset from the Destination Preset menu to set the destination folder and workspace.

Destination Presets are configured using the Interplay Transfer Preset view in the Avid Interplay Administrator. If no presets are configured, the Destination Preset menu does not display on the Send to Workgroup dialog box. For procedures on configuring a transfer preset, see "Configuring Workgroup Transfer Presets" on page 47.

   - If your workgroup configuration contains presets, but you do not want to use a preset, do the following:

     a. From the Destination Preset menu, select None.

     b. In the Destination area, select the remote workgroup and if applicable select a folder where you want to transfer the metadata.

     c. From the Workspace menu, if applicable select the workspace where you want to transfer the media file.

- If presets are not available, do the following:
  a. In the Destination area, select the remote workgroup and if applicable select a folder where you want to transfer the metadata.
  b. From the Workspace menu, if applicable select the workspace where you want to transfer the media file.

If you do not select a preset destination the settings available in the Send to Workgroup dialog box depends on the type of remote workgroup. See "Explanation of Send to Workgroup Settings" on page 93.

6. (Option) If you want to monitor the transfer, select the "Launch Interplay Transfer Status window."
7. Click OK.

   The transfer begins.

Explanation of Send to Workgroup Settings

When performing a workgroup to workgroup transfer the settings available in the Send to Workgroup dialog box depend on the type of remote workgroup selected. A Host Type is set when the remote workgroup is registered in the local workgroup. Remote workgroups are registered using the Configure Remote Workgroups view in the Avid Interplay Administrator. For information on registering a remote workgroup, see "Configuring a Remote Workgroup for Workgroup to Workgroup Transfers" on page 56.

When setting up Transfer Presets, the limitations described in this section also apply.

When registering remote workgroups, use the following table to understand the various Host Types for the remote workgroups, and the settings that are available in the Send to Workgroup dialog box with each type of host.

Host Type	Send to Workgroup setting	Description
Interplay Server/Remote Search	Destination folder	Lets you select a folder for the incoming metadata on the remote Interplay workgroup.
	Workspace	Lets you select a workspace for the transferred assets.
MediaManager	Destination folder	You cannot select a destination folder.
	Workspace	Lets you select a workspace for the transferred assets.
TransferManager	Destination folder	You cannot select a destination folder.
	Workspace	You cannot change the workspace here. Uses the default workspace set in "No-login workspace for incoming transfers" in the Avid Interplay Transfer Engine Configuration tool or for Workgroup 4 TransferManager in the Avid TransferManager Server Configuration tool.

Transferring Avid Assets from Workgroup 4.5 to an Interplay Workgroup

You can transfer Avid assets from Workgroup 4.5 to an Avid Interplay workgroup. The MediaManager server in the Workgroup 4.5 environment must have TransferManager installed and configured.

Avid Interplay Engine and MediaManager cannot run simultaneously on a single Avid Unity system.

To transfer Avid assets from Workgroup 4.5 to an Interplay workgroup:

1. From the Avid Interplay Administrator, click Interplay Transfer Status.

   The Interplay Transfer Status dialog box opens.

2. Open the MediaManager in a browser.
3. Perform a search operation that returns the assets that you want to transfer.

4. In the Results Frame of the MediaManager, click the asset, or Ctrl+click multiple assets that you want to transfer and drag them to the Interplay Transfer Status dialog box.

   The Interplay Transfer begins a “pull” of the asset from the Workgroup 4.5 TransferManager. The assets are added to the default folder, for example, Incoming Media folder.

Automatically Transferring Assets to Another Workgroup

The AutoTransfer service lets an administrator or user with administrator privileges identify a folder as an AutoTransfer folder. The AutoTransfer service automatically submits assets placed in the AutoTransfer folder to the Interplay Transfer Engine for workgroup to workgroup transfers. When setting up an AutoTransfer folder you select a Transfer Preset that defines the destination workgroup, workspace for the media files, and destination folder for the metadata.

When a clip or sequence asset is placed in a folder identified as an AutoTransfer folder, the system uses the Avid Interplay Transfer Preset associated with the AutoTransfer folder to automatically transfer the asset.

The Avid Interplay Framework provides the following tools for AutoTransfer service:

- Avid Workgroup Properties tool starts and stops the service.
- Avid Interplay Service Configuration tool:
  - Requires initial setup for setting the source Interplay Engine server, set a user name for the service, and password for the login user name.
  - Lets you set and change parameters for each of the different Avid services and applications in your workgroup environment.
- Avid Health Viewer tool monitors the status of the service.
- Avid Diagnostic Log Viewer checks details about errors of the service.

For more information about Avid Interplay Framework, see the *Avid Interplay Framework User’s Guide*.

Automatic Transfer Checklist

The following table provides a check list for setting up an AutoTransfer folder and using the folder to automatically transfer assets.

AutoTransfer Checklist

	Task	Section Reference
❑	Install the Avid Interplay AutoTransfer service.	See "Installing the Avid Interplay AutoTransfer Service" on page 34.
❑	Configure the AutoTransfer service settings.	See "Configuring the AutoTransfer Service" on page 84.
❑	Create a Transfer Preset for AutoTransfer folder.	See "Configuring Workgroup Transfer Presets" on page 47.
❑	Identify a folder as an AutoTransfer folder.	See "Identify an AutoTransfer Folder" on page 96.
❑	Transfer assets using an AutoTransfer folder.	See "Automatically Transferring Assets" on page 97.
❑	Monitor transfers	Use Interplay Framework, see the *Avid Interplay Framework User's Guide*.

Identify an AutoTransfer Folder

Before you can setup an AutoTransfer folder, a Transfer Preset must already exist. For information on creating a Transfer Preset, see "Configuring Workgroup Transfer Presets" on page 47.

To set up an AutoTransfer folder:

1. Log on to Interplay Engine as an administrator or as a user with administrator privileges.
2. Create a folder (or select an existing folder) in the Avid Interplay database, using the Avid Interplay Access.

   You can use any name for the folder that fits your workflow.
3. Right-click the folder and select Set AutoTransfer.

   The Set AutoTransfer dialog box opens.
4. Select a Transfer Preset for the folder and click Set.

   The system adds an AutoTransfer icon to the folder.

Automatically Transferring Assets

To automatically transfer assets:

1. Make sure a folder is configured for AutoTransfer. See “Identify an AutoTransfer Folder” on page 96.
2. Locate a clip that you want to transfer, right-click the file, and select Move To.

   The Move To dialog box opens.
3. Navigate to your AutoTransfer folder and click OK.

   The system starts transferring the assets to the destinations set in the Transfer Preset, as a background task.
4. (Option) To view the progress of the transfer, select Tools > Interplay Transfer Status.

   The status window opens and displays the transfer status of all jobs being transferred.

Rules of AutoTransfer

To determine if the clips are ready for transfer, a set of rules is applied to each clip found in the AutoTransfer folder.

AutoTransfer rules applied after AutoTransfer service starts:

- Verifies clips are inside the AutoTransfer folder.
- Verifies that clips are not in Frame Chase Editing (Edit While Capture) mode.
- Verifies clips are not already pending for a transfer in Avid Interplay Transfer.
- Verifies clips have not already successfully transferred.
- Verifies clips have been modified since the last successful AutoTransfer—if the clips were modified after a successful AutoTransfer the clips will be AutoTransferred again.

Transferring Avid Assets in a Standalone Environment

In a standalone environment, Interplay Transfer can be used to transfer compositions and media from one Avid editing system to another Avid editing system. If you are transferring compositions or clips, you simply select the item from a bin and transfer it. If data is being sent to you from another Avid editing system, you simply choose to accept it.

To transfer assets between Avid editing systems, each Avid editing system must have the Interplay Transfer Engine and Interplay Transfer client installed. If Interplay Transfer is properly installed and enabled on your Avid editing system, it starts automatically whenever you start the Avid editing application.

After you send a sequence to another Avid system, you can work on another project while the transfer is taking place. However, until the transfer operation is complete, certain operations will run more slowly. In the case of play back and capturing, you might experience interruptions.

For procedures on configuring your Avid editing system for transfers, see "Configuring the Avid Editing Application for Transfers" on page 62.

Transferring Avid Assets

To send clips or sequences to another Avid editing system:

1. Open the bin that contains the clips or sequences you want to send.
2. Select a clip or sequence, or Ctrl+click multiple clips or sequences.
3. Select Transfer > Send To Workgroup and then select the available workstation to which you want to send the assets.

   The compositions, clips, and any available media are sent to the destination system.

   For information on monitoring the transfer of the assets, see "Monitoring Transfers from Within the Avid Editing Application" on page 124.

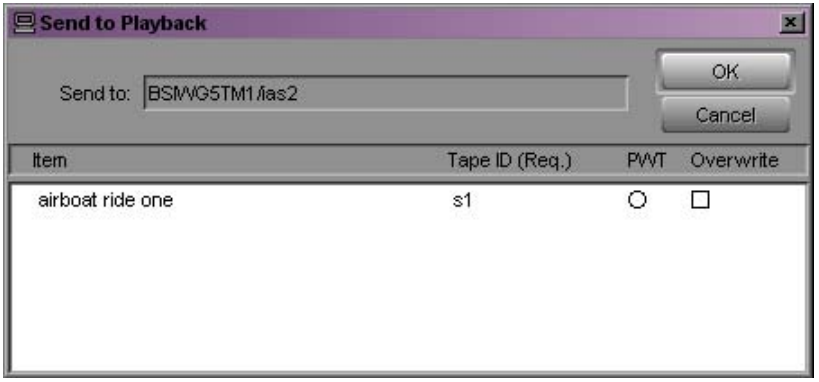
Transferring Avid Assets to a Playback Device

In a broadcast environment, you can transfer a finished sequence to a configured playback device. For information about configuring the playback device for transfers, see "Understanding the Avid Interplay Transfer Engine Configuration Settings" on page 40.

To send a finished sequence to a playback device:

1. Open the bin that contains the sequence you want to transfer.
2. Select the sequence.
3. Select Transfer > Send To Playback, and select the available playback device to which you want to send the sequence.

   The Send to Playback dialog box opens.



If necessary, you can set the sequence to high priority by clicking the circle in the PWT (Play While Transferring) column next to the sequence.

If you try to send a sequence or clip with the same tape ID as one the Interplay Transfer already has, you receive an error message. If you want to overwrite the tape ID name, select the Overwrite option. Overwrite the tape ID only if you are sure you want to overwrite the previous tape ID name.

4. Click OK.

   The sequence is sent to the Interplay Transfer server, where it is sent to the selected playback device. You can now work on another project while the transfer is taking place.

   For information on monitoring the transfer of assets, see "Monitoring Transfers from Within the Avid Editing Application" on page 124.

Working with Rundowns

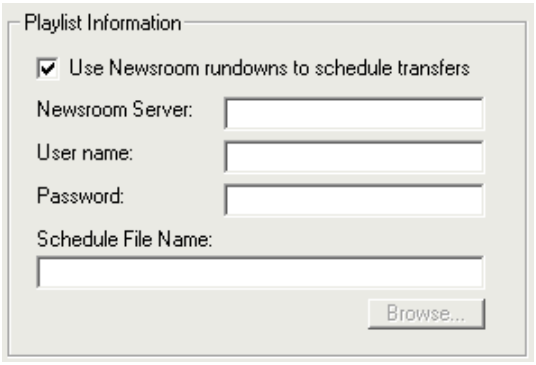
In a broadcast environment, you can enable the Interplay Transfer scheduling feature to allow interaction with the Newsroom Computer System (NRCS). You can select the assets to send to playback, and the schedule list from the NRCS determines the order in which the assets are played back.

To use the Interplay Transfer with rundowns:

1. On your Interplay Transfer server, click Start, and select All Programs > Avid > Avid Interplay Transfer Engine Configuration.

   The Interplay Transfer Engine Configuration window opens.

2. In the Playlist Information area, select "Use Newsroom rundowns to schedule transfers."



3. Type the computer name of the Newsroom Server.
4. Type the user name and password.
5. If you know the name of the schedule file, type it in the Schedule File Name text box. The schedule file specifies which rundowns to use at which time. See "Creating a Rundown Schedule File" on page 101.
6. Click OK.
7. Restart the Interplay Transfer server.

Anytime the configuration information changes, you must restart the server.

8. On your Avid editing system, open the bin that contains the sequences you want to send.
9. Select the sequences.
10. Select Transfer > Send To Playback and select the available playback device to which you want to send the sequence.

    The Send to Playback dialog box opens.

11. Click OK.

    The sequences play back based upon the order in which they appear in the NRCS rundown list.

In the Send to Playback dialog box, if you set one of the sequences to high priority by clicking the circle in the PWT column next to the sequence, that sequence has priority over the rundown list.

For information on monitoring the transfer of assets, see "Monitoring Transfers" on page 123.

Creating a Rundown Schedule File

A rundown schedule file tells the Interplay Transfer server which rundown to schedule at what time. The format is the time to start monitoring the rundown followed by the name of the rundown. For example:

```
# Rundown Schedule File
# Number of elements
9
#Time (after) Rundown Name
00:00:00 5a
05:55:00 6a
06:55:00 7a
11:45:00 noon
14:45:00 3pmcutin
15:45:00 4pmcutin
17:55:00 6p
20:45:00 9pmcutin
21:10:00 10p
```

Transferring Files From an Ingest Device

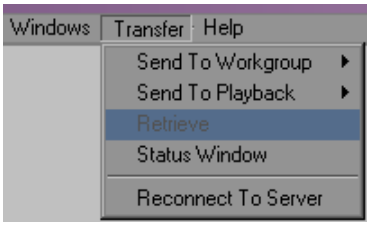
In a broadcast environment, you can transfer files from a configured ingest device to your Avid editing system bin.

To transfer files from the ingest device to your Avid editing system bin:

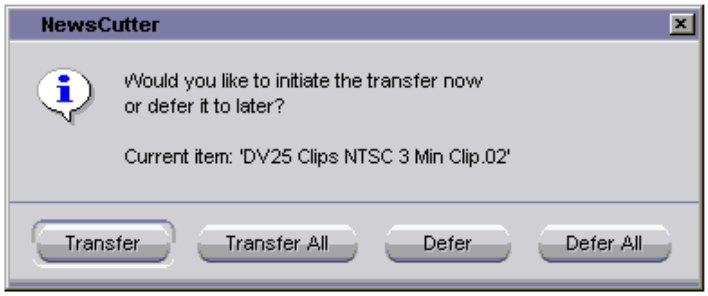
1. Ensure that the ingest device is properly connected. For more information, see the documentation supplied with your ingest device.
2. Open the ingest device's application that lets you see the files located on the ingest device.

   A list of files located on the ingest device appears.
3. Open the bin on your Avid editing system where you want to capture the files.

   You might have to minimize both the Avid editing application and the ingest device's application so that you can view both at the same time on your desktop.
4. Click the media file you want to capture, and drag the file to your Avid editing system bin.
5. If you selected one item to transfer, a message appears asking if you want to initiate the transfer. Do one of the following:
   - Click Now to transfer the assets.
   - Click Later, if you wait to transfer the asset at a later time. To transfer the asset at a later time, select Transfer > Retrieve.



   The captured assets appear in the bin. To monitor the transfer, see "Monitoring Transfers" on page 123.
6. If you selected multiple items to transfer, a message box opens, asking if you want to initiate the transfer.



Do one of the following:

- Click Transfer; a message box appears for each clip. You must click OK in each message box to initiate the transfers.
- Click Transfer All; all the items selected are transferred.
- Click Defer; the assets are not transferred, and you see a message box to defer each asset. You must click OK in each message box to defer the transfers.
- Click Defer All; the assets are not transferred until you retrieve them. To transfer the assets at a later time, select Transfer > Retrieve.

The captured assets appear in the bin. To monitor the transfer, see “Monitoring Transfers” on page 123.

Transferring To and From Generic FTP Servers

To enable interoperability between Avid Unity family and third-party devices that use the MXF OP1a file format, Avid has developed an optional Avid Interplay Transfer Data Handling Module (DHM) plug-in that supports FTP integration to third-party MXF OP1a compliant devices. The Interplay Transfer MXF OP1a FTP DHM allows MXF OP1a files to be brought into an Avid Unity, Avid Unity ISIS, or an Avid editing environment from an FTP server. You can also export Avid media files in MXF OP1a format to an FTP server using this same MXF OP1a FTP DHM.

For procedures required to integrate a FTP server into a workgroup, see “Configuring Capture and Play Back of MXF DHM OPIa File Formats” on page 66.

The Avid FTP Media Browser application allows you to browse the contents of an FTP server to select the MXF OP1a files that you want to import into the Avid system. The MXF OP1a FTP DHM rewraps the imported files in Avid MXF-OP-Atom format.

The MXF OP1a FTP DHM supports IMX 30, 40, 50, DV 25, and DV 50 in PAL and NTSC. The media format is not changed during the import process, just the metadata wrapper. Supported audio is 16-bit or 24-bit sampled at 48 kHz with up to 8 audio tracks. The MXF OP1a FTP DHM also supports the export of Avid IMX™ 30, 40, 50, DV 25, and DV 50 media to an FTP server in MXF OP1a format.

Avid editing applications do not play IMX files that are encoded on the Thunder system and then ingested into the Avid editing application. The media is always located in a Clips folder in each database.

The Interplay Transfer MXF OP1a FTP DHM was written to support MXF OP1a files that match the MXF OP1a reference standard. Because some vendors implement MXF OP1a support in a way that deviates from the reference standard, Avid cannot guarantee support for devices that do not comply with the reference standard. In addition, Play While Transfer, Overwrite, Frame-Chase Editing, and partial transfer capabilities are not supported with the MXF OP1a FTP DHM.

Interplay Transfer supports capture from and play back to File Transfer Protocol (FTP) servers that are compliant with FTP. You can transfer completed media sequences between Avid editing applications and generic FTP type servers.

The FTP transfer of media is over standard TCP/IP Ethernet network. The FTP DHM supports connections to a FTP server using a valid DNS name or IP address. The FTP DHM can work with FTP servers on different subnets than the Interplay Transfer server.

Microsoft .NET Framework 1.1 must be installed on the Interplay Transfer server and Interplay Transfer client systems when you are using FTP DHM. You can install .NET Framework during the Interplay Transfer installation.

During the transfer, the FTP DHM component supports the Run, Pause, Resume, Retry, and Cancel functions that are available from the Interplay Transfer server. Pause and Resume functions are constrained by the time-out setting on the FTP server. The components support multi-threaded operations that allow for simultaneous transfer operations to occur.

If you cancel a transfer before it is complete, the part of the transfer that succeeded before the cancellation remains on the server.

For FTP transfer workflows, see the following sections:

- “Workflow: Capturing Clips From an FTP Server” on page 105
- “Workflow: Play Back to an FTP Server” on page 108

Workflow: Capturing Clips From an FTP Server

During an ingest, compressed frames are streamed from MXF OP1a files stored on a generic FTP server to the Avid editing system. Captured files do not overwrite an already existing file. If a file already exists, a new file is created.

The audio or video format of the media is maintained during the capture process. Therefore, there is no visible or measurable distortion of either video or audio as a result of the transfer process.

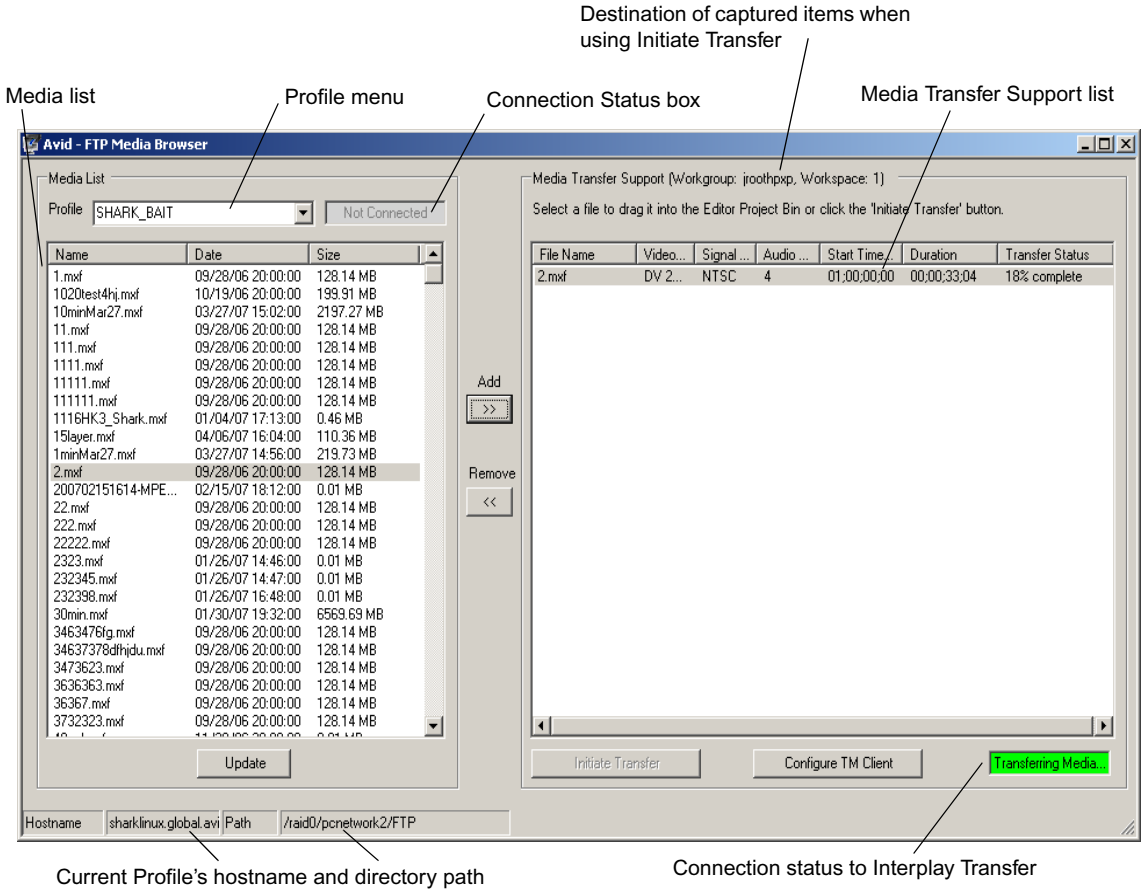
There are two methods for capturing clips from an FTP server:

- Drag and drop items to an Avid editing application bin
- Direct Capture lets an Interplay Transfer client capture media from FTP servers into a default workgroup and workspace. The destination of the captured items is set when you configure the workgroup and workspace in the Avid Interplay Transfer Engine Configuration tool. This workflow provides unattended ingests of selected items.

To capture media from an FTP server:

1. Make sure the FTP server is properly connected and configured; see the documentation that came with your server.
2. (Option) When using drag and drop method, open a bin or create a new bin and position it in an unobstructed area.
3. From the Avid Transfer client system, click the Start button, and then select All Programs > Avid > Utilities > Avid FTP Media Browser.

   The Avid - FTP Media Browser opens.



4. Select a Profile from the Profile menu for the FTP directory where you want to access the media files.

   The status bar at the bottom of the Avid - FTP Media Browser window displays the hostname and directory path for the currently selected profile.

For a procedure on how to create a new profile, see "Creating and Editing FTP Directory Profiles on Interplay Transfer Client" on page 72.

5. Observe the connection status box next to the Profile menu.

   This box indicates when the connection is complete. When the connection is complete, a list of files in the FTP directory displays in the Media List.

Connection Status

Color	Indicates
Green	Connected
Gray	Not connected
Red	Connection failed

If no activity occurs for a time-out period, the FTP connection is closed. You can click Update to reconnect to the FTP server.

6. (Option) Sort the files listed in the Media List by name, modification date, or size.
7. (Option) Click Update to refresh the list of files in the Media List.
8. Select the files in the Media List that you want to transfer.
9. Click Add to add the selected files to the Media Transfer Support list.
10. (Option) Click Remove to move a selected file from the Media Transfer Support list back to the Media List.
11. (Option) Double-click a file in the Media Transfer Support list to open a status window where you can set IN and OUT points and view information about the clip.
12. (Option) When using Direct Capture method you need to configure the Interplay Transfer client. See "Configuring the Interplay Transfer Client For Direct Captures" on page 74.
13. Begin the transfer, do one of the following:
    - Drag and Drop method—select the files in the Media Transfer Support list and drag them to the Avid editing application bin.

      A dialog box opens asking if you want to transfer the files now or defer the process to a later time. Click Now to begin the transfer or click Later to defer the transfer to a later time.
    - Direct Capture method—click Initiate Transfer.

      Items listed in the Media Transfer Support list begin transferring one at time until the list is finished. The destination of the captured items is set when you configure the workgroup and workspace in the Avid Interplay Transfer Engine Configuration tool.
14. Monitor the transfer progress using the Transfer Status column. The Transfer Status column displays Submitted, Pending, or a percentage of the completed capture, as the transfers are monitored every 2 seconds.

Workflow: Play Back to an FTP Server

During a play back operation, media associated with a sequence from an Avid editing application is transferred to a FTP server. The media format in the Avid environment is MXF/AAF. The format of the data transferred to the FTP server is MXF OP1a format. However, the audio and video quality remains the same as the native Avid media. There is no visible or measurable distortion of either the video or audio as a result of the transfer process, and the transfer preserves the original media format (DV or IMX).

The name in the Tape ID field of the sequence is used as the name for the file created on the FTP server during a play back.

For configuration information for playback to an XDCAM SD device, see "Configuration for Playing Back to Sony XDCAM SD Device" on page 76.

To play back a sequence to an FTP server:

1. Make sure the FTP server is properly connected and configured; see the documentation that came with your server.
2. Make sure the "Interplay Transfer Engine with Supplemental FTP Services" setting was selected as the installation type during the installation of the Interplay Transfer Engine application. See "Installing the Interplay Transfer Engine in a Workgroup Environment" on page 29.
3. Make sure the Interplay Transfer server is configured with the FTP server and FTP playback device. See "Configuring an FTP Server, FTP Playback, and FTP Ingest Devices" on page 67.
4. On the Avid editing system, select the sequence you want to play back.
5. Select Transfer > Send to Playback > *Generic FTP playback device*.

   Generic FTP playback device is the device you added to the Interplay Transfer Engine Configuration tool. See "Configuring a Generic FTP Playback Device into a Workgroup" on page 70.

   The play back transfer begins.

Transferring Files From FTP Deck Devices

TM-DHM is Avid's API to integrate with third-party video server vendors. Avid has written its own integration to the DHM API for the Sony e-VTR and XDCAM™ deck devices. The integration supports MXF files by rewrapping them in AAF as they are brought into Avid Unity shared storage through the Interplay Transfer server. The integration supports IMX 30, 40, 50, and DVCAM in PAL and NTSC.

Unlike other DHM implementations, this does not enable users to "Send to Playback," which would have allowed initiating requests from the editor that was writing to the decks.

The following sections give general procedures for capturing clips from a FTP deck device and workflows.

- Workflow For Using Sony XDCAM SD and XDCAM HD FTP Devices
- Capturing Clips From FTP Devices
- Workflow: Capturing Clips From an e-VTR Device
- Workflow: Capturing Clips From an XDCAM Device

Workflow For Using Sony XDCAM SD and XDCAM HD FTP Devices

You can use an Avid editing application to import Sony® XDCAM SD and HD material. You can also use the Avid editing application to export (write back) your finished sequence back to the XDCAM device.

In an Interplay environment, you can also use Interplay Transfer and the FTPClipList application to capture media from an XDCAM SD and XDCAM HD camera or deck and send the material to shared storage. The background transfer capability off loads processor-intensive transfers from an Avid editing system. When importing XDCAM SD and XDCAM HD media, the master clips are automatically checked into the Interplay database. XDCAM devices can only transfer one file at a time.

You can use Interplay Transfer to write back XDCAM SD material. For write back of XDCAM HD, use the Export XDCAM feature in the Avid editing application.

For information about the playback workflow, see "Workflow: Play Back to an FTP Server" on page 108.

When capturing media from an XDCAM device using FTP, 24 bit audio files are captured to the Avid editing system as 16 bit audio files.

FTP capture of XDCAM HD 24p is not supported. You can use the Firewire capture method. For details, search for "Connecting the XDCAM Device" in the Help for your Avid editing application.

For more information about using XDCAM media, see the following:

- For information about setting up Interplay Transfer and using and FTPClipList, see the "Configuring Ingest From FTP Deck Devices" on page 78.
- For information about the XDCAM export feature, see the Help for your Avid editing application.

Capturing Clips From FTP Devices

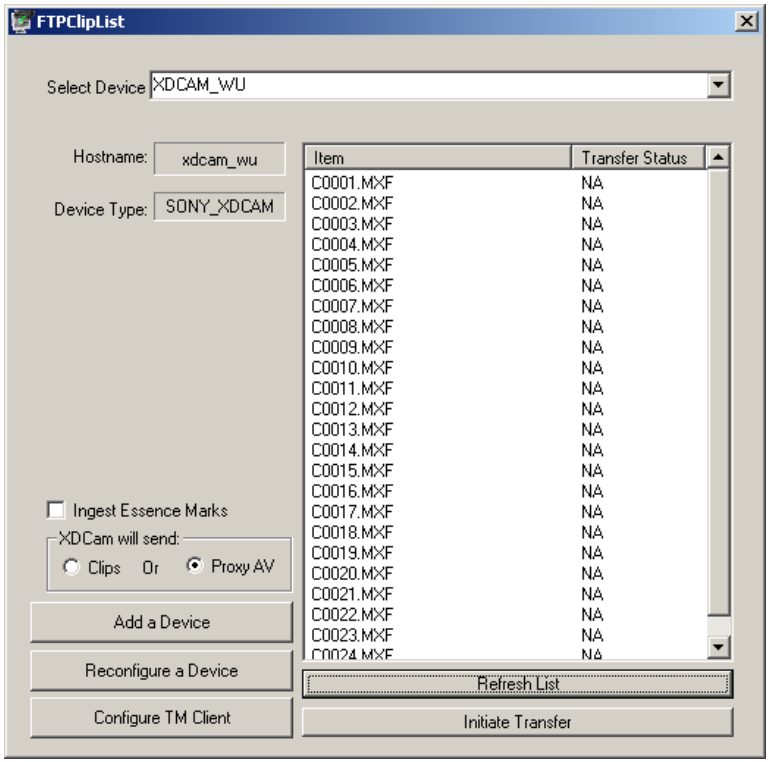
There are two methods for capturing media from an FTP device:

- Drag and drop items to an Avid editing application bin
- Direct Capture lets an Interplay Transfer client capture media from a FTP device into a default workgroup and workspace. The destination of the captured items is set when you configure the workgroup and workspace in the Avid Interplay Transfer Engine Configuration tool. This workflow provides unattended ingests of selected items. The transferred items are added to the Media Tool where you can drag and drop the item to a desired bin.

To capture clips from a FTP device:

1. From the Avid editing system, set the connection settings for the device. See "Setting the Ingest Device Connection" on page 80.
2. (Option) When using drag and drop method, open a bin or create a new bin and position it in an unobstructed area.
3. (Option) Open the Transfer Status window by selecting Transfer > Status Window.
4. From the Start button, select All Programs > Avid > Utilities > FTPClipList.

   The FTPClipList dialog box opens.



5. Select the device you want to use from the Select Device menu.
6. Click Refresh List to view a list of the clips available from the device.

If the device is busy, the list of available clips does not display.

7. (Option XDCAM) Select Ingest Essence Marks to include the Essence Marks with the metadata when capturing XDCAM media.
8. (Option XDCAM) In the "XDCAM will send" area, select one of the following:
   - Clips - select to capture the high-resolution of the selected clips
   - Proxy AV - select to capture the low-resolution of the selected clips
9. (Option) When using Direct Capture method you need to configure the Interplay Transfer client. See "Configuring the Interplay Transfer Client For Direct Captures" on page 74.
10. Select the clips you want to transfer.

11. Begin the transfer, do one of the following:

    - Drag and Drop method—drag the clips you want to capture to a bin.

      A dialog box opens asking if you want to transfer the files now or defer the process to a later time. Click Now to begin the transfer or click Later to defer the transfer to a later time.

    - Direct Capture method—click Initiate Transfer.

      The selected items begin transferring one at a time. When the transfer begins the FTPClipList title bar displays the destination for the captured items. The destination is set when you configure the workgroup and workspace in the Avid Interplay Transfer Engine Configuration tool.

12. Monitor the transfer progress using the Transfer Status column. The Transfer Status column displays Submitted, Pending, or a percentage of the completed capture, as the transfers are monitored every 2 seconds.

Workflow: Capturing Clips From an e-VTR Device

1. Make sure the e-VTR device is properly connected and configured; see the documentation that came with your device. Set the following:

   - Signal standard - NTSC or PAL
   - Bit rate - IMX or DVCam
   - Network settings - IP address, network mask, default Gateway

2. Make sure the “Interplay Transfer Engine with Supplemental FTP Services” setting was selected as the installation type during the installation of the Interplay Transfer Engine application. See “Installing the Interplay Transfer Engine in a Workgroup Environment” on page 29.

3. Make sure the Interplay Transfer server is configured with the e-VTR device:

   a. On your Interplay Transfer server, click the Start button, and then select Programs > Avid > Avid Interplay Transfer Engine Configuration.

      The Interplay Transfer Engine Configuration window opens.

   b. In the Ingest area, click Add.

   c. In the Device dialog box, type the name associated with the e-VTR device on the network, for example evtr_wu, and then click OK.

   d. Make sure the Workgroup Settings are set correctly. See the table in “Installing the Interplay Transfer Engine in a Workgroup Environment” on page 29.

   e. Click Save.

4. Make sure the e-VTR device is configured in the e-VTR Manager application. See the documentation that came with your device. Set the following:
   - Network device register - config name, host/IP address
5. Set up the device connection from the Avid editing system. For the setup procedure, see "Setting the Ingest Device Connection" on page 80.
6. Connect to the e-VTR device using the e-VTR Manager application. See the documentation that came with the device.
7. Start the capture. See "Capturing Clips From FTP Devices" on page 110.

   When the transfer is complete, the clip appears in the bin.

Workflow: Capturing Clips From an XDCAM Device

1. Make sure the XDCAM device is properly connected and configured; see the documentation that came with your device. Set the following:
   - Signal standard - NTSC or PAL
   - Bit rate - IMX or video
   - Network settings - IP address, network mask, default Gateway
2. Make sure the "Interplay Transfer Engine with Supplemental FTP Services" setting was selected as the installation type during the installation of the Interplay Transfer Engine application. See "Installing the Interplay Transfer Engine in a Workgroup Environment" on page 29.
3. Make sure the Interplay Transfer server is configured with the XDCAM device:
   a. On your Interplay Transfer server, click the Start button, and then select Programs > Avid > Avid Interplay Transfer Engine Configuration.

      The Interplay Transfer Engine Configuration window opens.

   a. In the Ingest area, click Add.
   b. In the Device dialog box, type the name associated with the XDCAM device on the network, for example xdcam_wu, and then click OK.
   c. Make sure the Workgroup Settings are set correctly. See the table in "Installing the Interplay Transfer Engine in a Workgroup Environment" on page 29.
   d. Click Save.
4. Make sure the XDCAM device is configured correctly. See the documentation that came with your device. Set the following:
   - Set the FTP registration by adding a host name and IP Address for the XDCAM.
   - Connect to the FTP device by typing a user name and password.

5. View the media on the XDCAM device. See the documentation that came with your device.
6. Set up the device connection from the Avid editing system. For the setup procedure, see "Setting the Ingest Device Connection" on page 80.
7. Start the capture. See "Capturing Clips From FTP Devices" on page 110.

   When the transfer is complete, the clip appears in the bin.

Chapter 5

Using Frame Chase Editing

This chapter describes how to use Frame Chase editing. Frame Chase editing (sometimes called “edit while capture”) lets an Avid editing application that is part of an Interplay workgroup view and edit clips while they are being captured. Frame Chase editing is supported only when media is captured from a supported external device through Avid Interplay Transfer.

This chapter includes the following topics:

Understanding Frame Chase Editing

Frame Chase editing is a time-saving feature that lets an editor view and edit media while it is being captured from a line feed or ingest device. After the capture starts, the editor can use the captured media to create a sequence, view the media as it is captured, and complete a sequence even before the capture has finished.

Clips that are in the process of being captured are referred to as *in-progress clips*. In-progress clips are indicated by the following icons:

 In-progress master clip

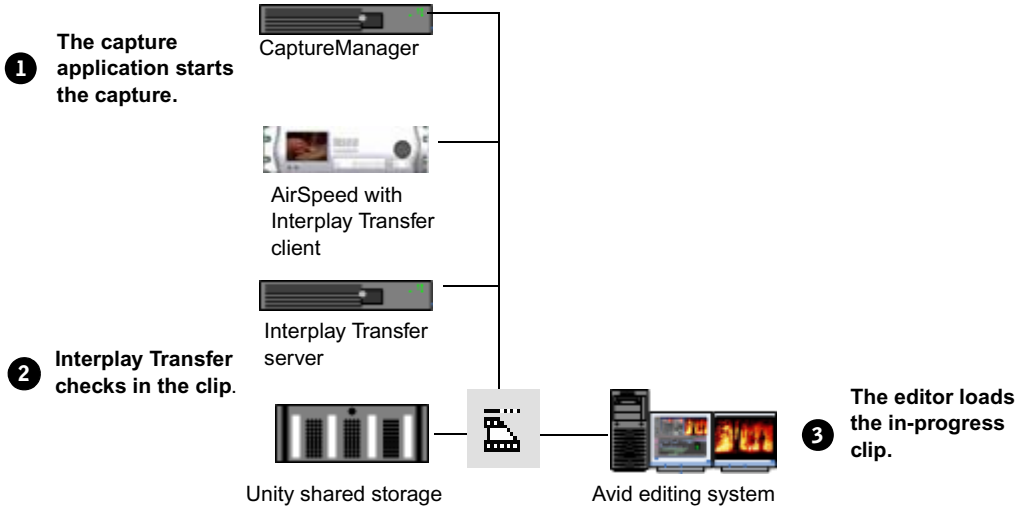
 In-progress audio clip

When the capture is complete, the icon is replaced by the standard master clip or audio clip icon. To view the updated icon in the Interplay Window, press F5. To view the updated icon in a bin, select Bin > Update from Interplay.

Frame Chase editing is available only in an Interplay workgroup that includes Avid Interplay Transfer and a supported external device. Media must be in the MXF format. The process consists of three basic parts:

1. A capture is started on a line feed or ingest device (for example, an Avid AirSpeed video server). This capture is controlled by an application such as Avid CaptureManager™. Depending on the device, you can also “hot record” a clip by using controls on the device itself.
2. After the capture begins, the Interplay Transfer client on the ingest device communicates with the Interplay Transfer server to check the in-progress clip into the Interplay database. Interplay Transfer also manages the transfer of media to Avid Unity shared storage.
3. The editor or journalist loads the in-progress clip. You can work with in-progress clips on an Avid editing system, Avid Instinct, or Avid Interplay Assist. On an Avid editing system, you can work directly from the Interplay window, or you can check out a clip to a bin.

The following diagram illustrates these basic parts of the process.



The length of an in-progress clip is based on the expected duration of the capture. For on-the-fly or open-ended captures, the length of the clip is based on the maximum capture time set by the capture application. The Frame Chase process creates one media file for each track of the captured media. As a capture continues, the size of the associated media file increases. After the capture is complete, the clip is updated to reflect the actual duration of the capture and the in-progress icon is replaced by the standard icon.

The default duration on an AirSpeed server is one hour (01:00:00:00). When the capture is complete, the duration is updated. If a clip goes beyond one hour, the default duration is two hours (02:00:00:00).

Frame Chase editing is supported in a dual-ingest configuration, in which both a low-res and a high-res version of a clip is created. When an editor loads an in-process clip, the version that is displayed is determined by one of the following:

- If dynamic relink is enabled, the dynamic relink settings determine which version is displayed.
- If dynamic relink is not enabled, the latest version checked in to the Interplay database is displayed.

For more information about dual-ingest configurations, see the *Avid CaptureManager Installation and Configuration Guide*. For more information about dynamic relink, see "Using MultiRez and Dynamic Relink" in the Help for your Avid editing system.

Workflow for Frame Chase Editing

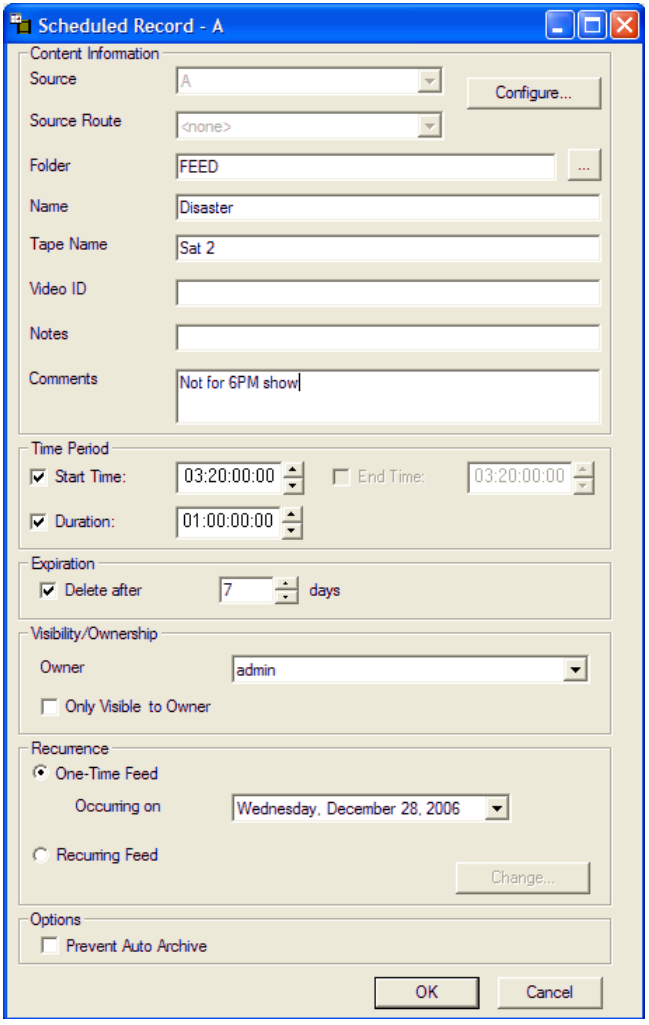
The following workflow is one example of how to use Frame Chase editing.

This workflow includes the following components:

- An Avid editing system that is an Avid Interplay client. This workflow uses Avid NewsCutter Adrenaline. It also uses the Interplay Window to access the Interplay database.
- A supported line-feed or ingest device. This workflow uses an Avid AirSpeed server.
- A capture application. This workflow uses Avid CaptureManager software, which schedules the ingest on the AirSpeed server.
- Avid Interplay Transfer software. In this workflow, the AirSpeed server is an Interplay Transfer client and communicates with the Interplay Transfer server.

You can adapt this workflow to suit the requirements of your working environment.

In the following workflow, an editor uses Avid NewsCutter Adrenaline to create a news story from a timed feed. CaptureManager has been set up to work with an AirSpeed server to automatically create clips of a set duration from the feed, as shown in the following illustration.

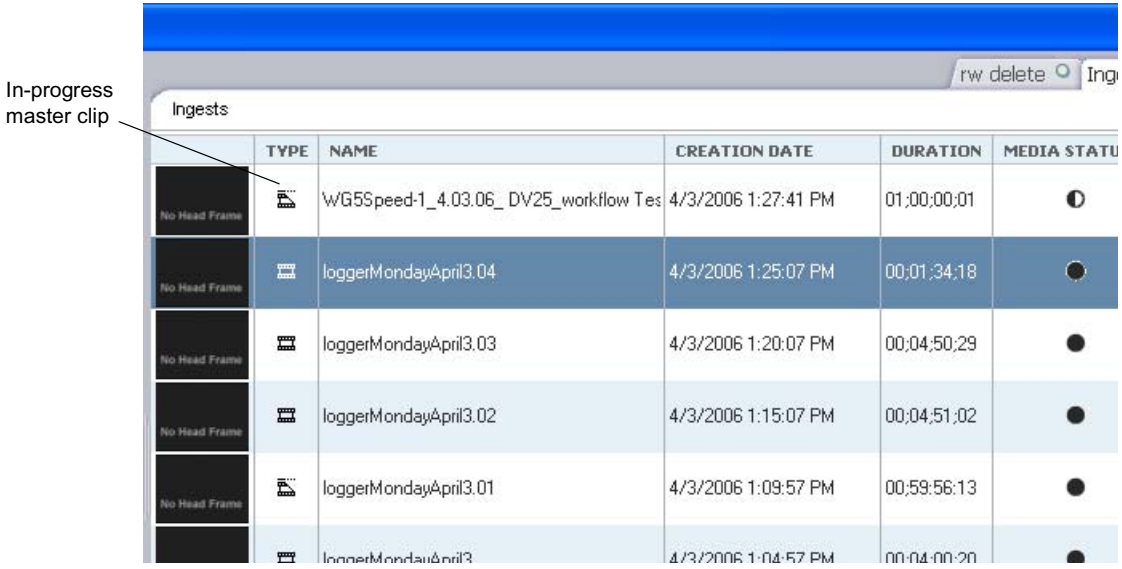


For more information on CaptureManager, see the *Avid CaptureManager User's Guide*.

To use Frame Chase editing:

1. Make sure that the ingest device is properly connected and set up for recording and transfer.
2. On the Avid editing system, make sure an Avid Unity workspace is mounted.
3. Open the Avid editing application, open a project, and open the Interplay Window.
4. In the Interplay Window, navigate to the folder that holds the clip that you want to use for editing. If you know some information about the clip, you can use the Search feature.

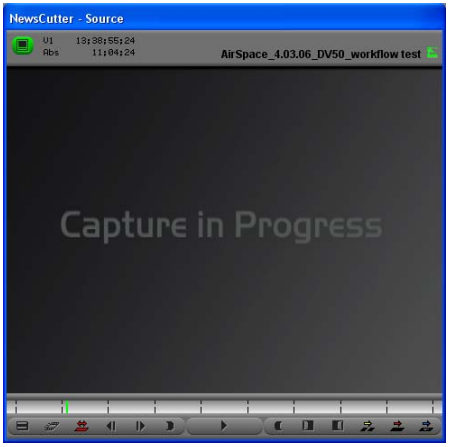
   A clip that is being captured displays an in-progress icon.



5. Load the clip into the Source monitor and play the clip.

   The clip plays in the Source monitor at the same time the media is being captured.

Portions of a clip that are not currently available display a "Capture in Progress" slide until the sections are captured.



In Avid Instinct or Avid Interplay Assist, press Alt+F5 to update the media displayed in the monitor.

6. Create a sequence in a bin on your Avid editing system.
7. Use standard editing techniques to build a sequence from the in-progress clip.
8. When the clip is completely captured, select Bin > Update from Interplay.

   This command ensures that the latest version of the clip is used in your sequence. For more information, see “Updating Remote Assets in a Bin” in the Help for your Avid editing system.
9. Save the sequence and prepare it for playback.

Limitations When Working With In-Progress Clips

During the capture process the final length of the clip is unknown until the capture is complete and the clip information is updated. Because of this, there are some limitations when you work with in-progress clips.

The following editing functions are limited to working with the available captured media of an in-progress clip:

- **Editing in-progress clips into a sequence** — You can edit the captured portions of in-progress clips into a sequence.
- **Subclips** — When creating a subclip from an in-progress clip you must place the IN and OUT points where media has already been captured and is available.

- **Trimming** — The right-side trim limit of an in-progress clip is determined by the currently available media. When you trim an in-progress clip to the end of available media the trim functions as if it had reached the end of the clip. As more media is captured the trim limit increases. Performing the trim at a later time might allow more trimming as more media might become available.

The following editing functions are not available when working with in-progress clips:

- **Clip duplication** — Duplication of an in-progress clip is not allowed because the duplicated clip loses its relationship with the original in-progress master clip.
- **Group clips** — You cannot use an in-progress clip in a group clip, because the length of an in-progress clip is unknown until the capture is complete. Group clips are based on the length of the contributing clips. This limitation applies to all of the related grouping operations, such as AutoSync, Group Clips, and MultiGroup.
- **Consolidate, Transcode, and Audio Conversion** — You cannot use consolidate, transcode, or audio conversion with an in-progress clip. All the media must be available and the length of the clip known before you can perform these functions. However, you can use consolidate and transcode on subclips and sequences that reference or contain in-progress clips. In these cases, any right-side handles are restricted by the known media duration of the in-progress clip at the time of the operation.

  For example, if you set 2 second handles but there is only 1 second of media available for a handle at the time the consolidate or transcode operation is executed, then the right-side handle is restricted to 1 second.
- **Decompose** — The restrictions for decompose are the same as consolidate and transcode. The right-side handles cannot exceed the known media duration of the clip.
- **Non-Check-in export** — You cannot export an in-progress clip or a sequence that contains in-progress clips because the final clip length might be different than the clip length at the time of the export.
- **Variable-bit-rate media** — The only variable-bit-rate (variable-frame-size) media supported for Frame Chase editing is low-res long-GOP MPEG-2 media captured by the Avid Interplay low-res encoder. Only media captured by supported ingest devices is supported for Frame Chase editing.
- **Using the Capture tool**—Frame Chase editing is not available when capturing media from the Avid editing application's Capture tool.

Chapter 6

Monitoring Transfers

You can monitor the transfer of items from an Avid editing application, Avid Interplay Access, or the Avid Interplay Administrator software. If you monitor transfers from within the Avid editing application, you will see only the assets you transferred. If you open the Interplay Transfer Status window from the Avid Interplay Administrator, you can monitor all Interplay Transfer activity. If you have administrative privileges or you initiated the transfer, you can cancel, retry, pause, or resume transfers.

You can also monitor transfers from a standalone system using the Avid Interplay Media Services and Transfer Status tool. For more information about Media Services and Transfer Status tool, see "Configuring a Standalone System to Monitor Transfer Status" on page 58.

Monitoring Transfers from Within the Avid Editing Application

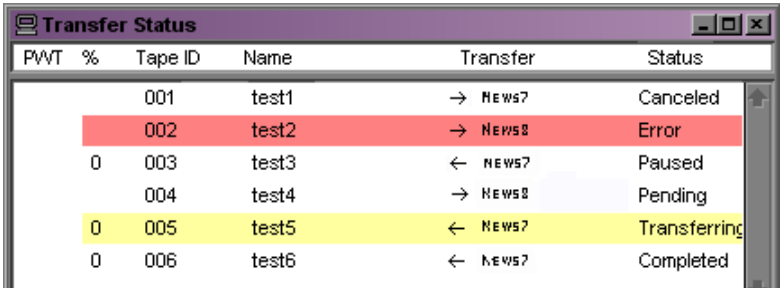
After you transfer an asset from within the Avid editing application, you can monitor the transfer.

To monitor the asset transfer:

1. Display the Transfer Status window, by doing one of the following:
   - For the Avid Instinct and Avid Interplay Assist applications, select File > Interplay Transfer > Show Status.

     The Interplay Transfer tab displays the transfers.
   - For other Avid editing applications, select Transfer > Status Window.

     The Transfer Status window opens.



2. Right-click the status of a particular transfer to display the status options.

A plus sign in the PWT column indicates the clip or sequence has been set to a high priority.

The following table lists the status options available during a transfer.

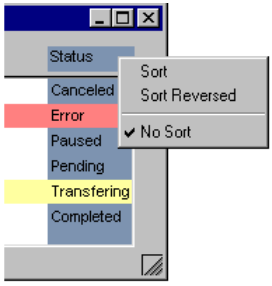
Status	User Options
Transferring	Pause or cancel the transfer.
Paused	Resume or cancel the transfer.
Error (plus information indicating the error)	Retry or clear the transfer.
Pending	Cancel the transfer.
Completed or Canceled	Clear the transfer.

Sorting the Transfer Status Columns

You can sort the transfer status column into either ascending or descending alphabetical order. For example, you might want to view the status or locations of the transfers in alphabetical order. This makes it easy to view all the completed, paused, or canceled transfers together.

To sort a transfer status column:

1. From the Transfer Status window or Interplay Transfer tab, right-click the column to display the sort options.



2. Select either Sort, Sort Reversed, or No Sort. Sort lists the information in alphabetical order.

Clearing the Transfer Status Window

When you are using the Transfer Status window from within the Avid editing application to view the status of any transfers, you should periodically clean up the Transfer Status window. The Transfer Status window is cleared of any leftover status messages when you exit the Avid editing application and then restart it. If you have not restarted the Avid editing application in a while, and your Avid editing system appears to be sluggish, clear the messages in the Transfer Status window.

To clear the Transfer Status window:

1. Do one of the following:
   - In the Avid Instinct and Avid Interplay Assist applications, select File > Interplay Transfer > Clear Status.
   - In the Avid editing application, select Transfer > Status Window.

     The Transfer Status window opens.
2. Press Ctrl+A to select all the items in the Status window.

3. Press Delete.

   All the items are removed from the Transfer Status window.

Monitoring Transfers from Within Avid Interplay Access

In Avid Interplay Access, you can monitor the transfer activity of all transfers within the workgroup. In the Interplay Transfer Status window, several filters are available to help you limit the list of transfers displayed in the status window. You can save filter preferences for easy access the next time you want to display the same limited list of transfers in the status window.

The following sections provide details about the Interplay Transfer Status window:

- Accessing the Interplay Transfer Status Window
- Understanding the Interplay Transfer Status Window
- Working with Filters in the Interplay Transfer Status Window

Accessing the Interplay Transfer Status Window

To access the Interplay Transfer Status window, do one of the following:

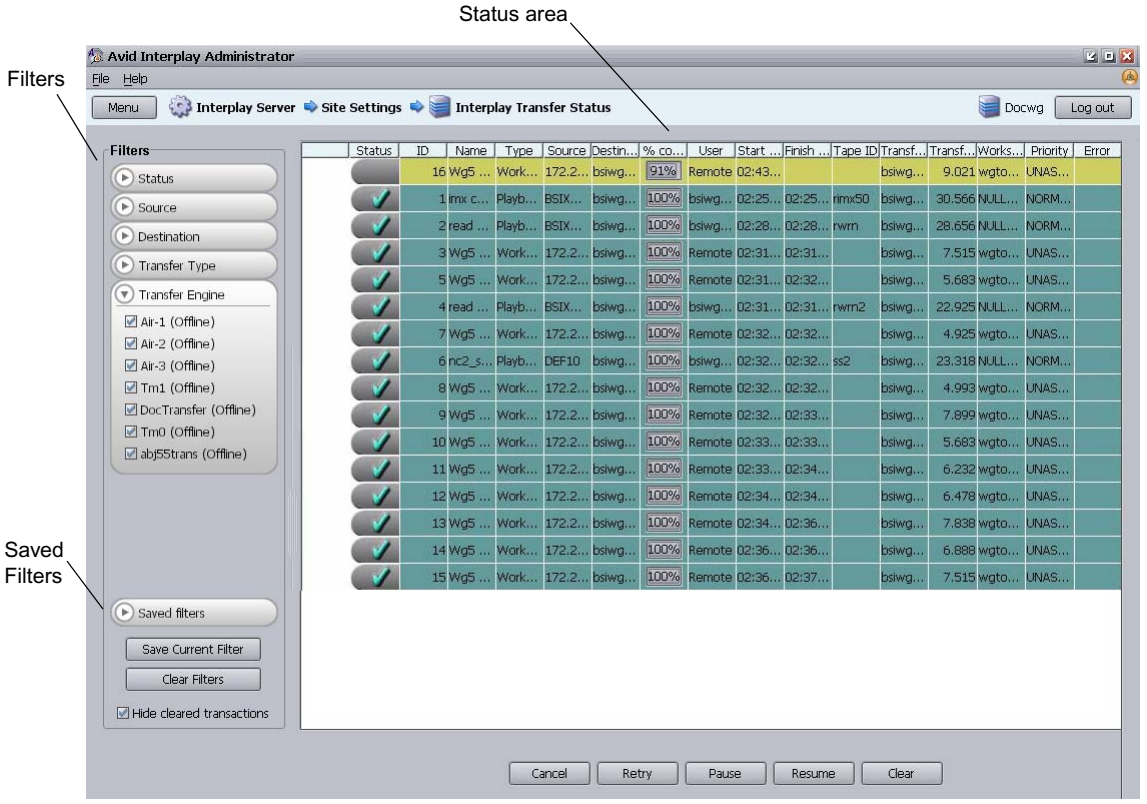
- From Avid Interplay Administrator:

  a. Click the Start button, and select All Programs > Avid > Avid Interplay Access Utilities > Avid Interplay Administrator.

  b. In the Site settings area, click Interplay Transfer Status.

- From Avid Interplay Access, select Tools > Interplay Transfer Status.

  The status window opens and displays the transfer status of all jobs being transferred.



Understanding the Interplay Transfer Status Window

The Interplay Transfer Status window shows all the current transfer activity. Filters are available to limit the number of transfers that display in the status window. For information about using the filters, see “Working with Filters in the Interplay Transfer Status Window” on page 129.

The Interplay Transfer Status window refreshes periodically to update the status information. You can change the default refresh intervals of the Interplay Transfer Status window. See “Setting the Refresh Time of the Interplay Transfer Status Window” on page 56.

The following table describes the information displayed in the Status area.

Interplay Transfer Status Area Details

Status Area Column	Description
Status	Displays the status of the current transfers. The color of the status row indicates the following: • Gray with no icon = Transfer is pending or in the queue. • Gray with Stop icon = Transfer has been canceled. • Gray with Pause icon = Transfer has been paused. • Yellow with no icon = Transfer is running. • Red with X icon = Transfer has failed. • Green with check mark icon = Transfer has completed successfully.
Name	Shows the name of the media being transferred.
Type	Indicates the transfer type: Workgroup pull, Workgroup push, Ingest, Playback.
Source	Indicates the name of the workgroup requesting the transfer.
Destination	Indicates the name of the workgroup receiving the transfer.
% Complete	Indicates the percentage of the transfer that has completed.
User	Shows the workgroup and user name requesting the transfer.
Start time	Shows the time the transfer was started (not the time the transfer request was submitted to the Interplay Transfer server).
Finish time	Shows the time the transfer finished.
TapeID	The TapeID of a clip is the same TapeID used in the Avid editing application. This helps identify a particular piece of media.
Transfer Engine	Indicates the name of the Transfer Engine performing the transfer.
Transfer Rate	Shows the rate of the transfer.
Workspace	Indicates the destination workspace of the transfer.
Priority	Displays the priority of each transfer.
Error	Indicates the reason for transfer failures.

Working with Filters in the Interplay Transfer Status Window

The Interplay Transfer Status window provides filters to help limit the number of transfers displayed in the status window. You can save filter preferences for easy access the next time you want to display the same limited list of transfers in the status window. For descriptions of the various filter options, see "Description of Filter Options" on page 130.

To setup a transfer filter:

1. Open the Interplay Transfer Status window. See "Accessing the Interplay Transfer Status Window" on page 126.
2. From the Filters area, select the filter options you want to use. See "Description of Filter Options" on page 130.

   The transfers that match your filter options selection display in the status area.
3. (Option) You can save the filter options to use another time. Do the following:
   a. Click Save Current Filter.

      The Enter filter name dialog box opens.
   b. Type a name for the filter and click OK.

      The new filter appears in the list of saved filters for use again.

To use a saved filter:

1. Click Saved filters to display a list of saved filters.

2. Select the filter you want to use.
3. Click Load to run the filter.

To delete a saved filter:

1. Click Saved filters to display a list of saved filters.
2. Select the filter you want to delete.
3. Press Delete.

Description of Filter Options

The various filters let you limit the transfers displayed in the status area. The following table explains the filter options.

Transfer Status Filters

Filter Name	Description
Status	Select the current status of transfers you want to display: Cancelled, Completed, Error, Paused, Pending, Running.
Source	Select the system requesting the transfer.
Destination	Select the system receiving the transfer.
Transfer Type	Select the type of transfers you want to display: Workgroup pull, Workgroup push, Ingest, Playback.

Transfer Status Filters (Continued)

Filter Name	Description
Transfer Engine	Select the Interplay Transfer Engine or Interplay Transfer enabled device that is handling the transfer. Explanation of Transfer Engine filter options: • The Transfer Engine filter parameter lists all Transfer Engines configured in the Interplay Transfer Settings view. For information about adding Transfer Engines to the filter list, see "Adding Interplay Transfer Engines" on page 53. • The Transfer Engine filter provides an online/offline status indicator. If any Interplay Transfer Engine in the Transfer Engine filter list is offline, then the filter changes to red. The text (Offline) displays next to the Transfer Engine that are offline.  • When you select a Transfer Engine in the filter list, this only enables the status for that Interplay Transfer Engine to display in the status area. Therefore, the filter selection has no effect on changing the Interplay Transfer Engine's online or offline state.

Chapter 7
Troubleshooting

This chapter describes how to detect problems you might encounter when using the Interplay Transfer as discussed in the following topics:

- Suggested Troubleshooting Guidelines
- Verifying Network Connectivity
- Increasing the Performance of Transfers

For additional troubleshooting information, see the Avid Unity documentation.

Suggested Troubleshooting Guidelines

The following guidelines can help you troubleshoot problems:

- Verify that Interplay Transfer is running on both the sending and the receiving systems. Interplay Transfer *must* be running on both systems.
- Verify that the network cables are securely connected between the computer and the site network.
- Verify that the network is operating and that your computer can detect the presence of the destination system. See “Verifying Network Connectivity” on page 134.
- If your computer has an optional network board, run the diagnostic programs provided with the board to verify that the board is functioning properly.
- If the system times out during transfers to your own computer or any other computer, ask the network administrator to verify that the Domain Name System (DNS) server specified in the TCP/IP properties of the Network settings in the Control areal is active and connected to the network.
- Verify remote workgroups are configured correctly before performing a workgroup to workgroup transfer. See “Configuring a Remote Workgroup for Workgroup to Workgroup Transfers” on page 56.

- View log information using the Avid Interplay Diagnostics. The Avid Interplay Diagnostics is an application that lets you view log information stored on either a local or remote computer. You can view log information streaming in real time, open logs stored on a remote computer, package remote logs and specify a storage location for them, filter logs by severity, and override the logging levels of remote services. For more information, see the *Avid Interplay Frameworks User's Guide*.
- Monitor health and status information using the Avid Interplay Health Monitor application. For information, see the *Avid Interplay Frameworks User's Guide*.

Verifying Network Connectivity

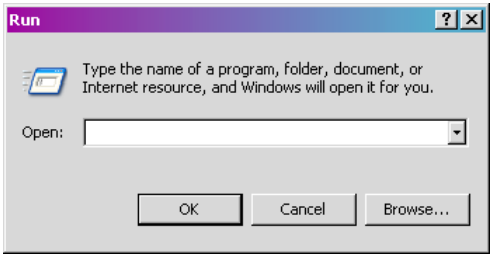
You can use the Windows operating system ping command to verify the network connection between your computer and another system on the network.

Before you use the ping command, make sure you know the system name or network address of the system you are pinging.

To check network connectivity:

1. Click the Start button, and then click Run.

   The Run dialog box opens.



2. Type the following command in the Open text box:

   `ping -t systemname`

   The variable *systemname* is the name of the system you are verifying.

   The Windows Console window opens, showing the status of the pinging.
3. Press Ctrl+C to stop running the ping command.

Increasing the Performance of Transfers

You can improve the performance of transfers by changing the file limit of media directories and setting the MegaByte multiple factor for read and write operations.

Changing the File Limit of Media Directories

When Interplay Transfer performs capture or heavy workgroup-to-workgroup transfers, a single directory can grow to more than 10,000 files. This can cause performance problems. By default, when Interplay Transfer starts, it checks the number of files in the Interplay Transfer managed directory. If the file count is greater than 95% of 10,000 files, it creates a new directory. If you want to lower these values, you must add new parameters to the TMserver.ini file.

File balancing is done only when the Interplay Transfer starts.

To change the file limit of media directories managed by Interplay Transfer:

1. Open the file C:\WINDOWS\TMserver.ini using WordPad.
2. In the [PMR Scan] section of the TMserver.ini file, add the following fields.

Fields Added to [PMR Scan] section	Description
`FileBalancing=1`	FileBalancing – Turns off and on the feature for limiting the number of files allowed in a media directory. If FileBalancing is not present in the TMserver.ini file, the default is 1, indicating the feature is active.
`MaxFiles=100`	MaxFiles – Specifies the maximum number of files allowed in an Interplay Transfer media directory. If MaxFiles is not present in the TMserver.ini file, the default is 10,000 files.
`FileCountThreshold=50`	FileCountThreshold – Specifies, as a percentage, the file count threshold, over which the Interplay Transfer server creates a new media directory on its next startup. If FileCountThreshold is not present in the TMserver.ini file, the default is 95%.

The following is a sample of media directories managed by Interplay Transfer:

\\unityFileSystem\workspaceName\Avid MediaFiles \MXF\TM_[tmserverHostname].

During startup only, the Interplay Transfer server checks each media directory for the number of files in the directory. If the media directory contains more files than specified by FileCountThreshold% of MaxFiles (for example, 95% of 10,000), the Interplay Transfer server creates a new directory using the same directory name and appends the name with an underscore and an incremental number.

For example, when the directory:

\\Unity1\WS1\Avid MediaFiles\MXF\TM_TransServer

becomes full, the next time the Interplay Transfer server TransServer is restarted, it creates a new directory named:

\\Unity1\WS1\Avid MediaFiles\MXF\TM_TransServer_1

and then _2, _3, and so on.

Additional File Count Logging

The Interplay Transfer server startup logging includes file count information. During startup, the Interplay Transfer server lists all the media directories on Avid Unity or Avid Unity ISIS. Each directory managed by the Interplay Transfer server is listed with three asterisks before it; each secondary directory has three hyphens before it. For all directories managed by Interplay Transfer, the number of files per directory is displayed.

In addition, a display of these PMR primary and secondary directories is included in the Interplay Transfer server's dump command.

Increasing the Performance of Workgroup-to-Workgroup Transfers

When Interplay Transfer performs workgroup-to-workgroup transfers in an Avid Unity ISIS environment, you might notice slow transfer times. For better performance, modify the TMserver.ini file.

To increase the performance of workgroup-to-workgroup transfers:

1. Open the C:\WINDOWS\TMserver.ini file using WordPad.
2. Add the following parameter to the end of the TMserver.ini file, where MBFactor is the MegaByte multiple factor for read and write operations. The recommended value is 4.

```
[Buffer size]
MBFactor=4
```

List of Terms

attribute name
Information in each record is recorded as a predetermined set of *attributes*. Each attribute describes a feature of the asset: for example, its name, creation date, or tape ID.

Assets
Master clips, sequences, effects, and any other type of asset that reference digital media files. Assets also refer to the media files.

Avid Interplay Access
The Interplay Access lets you find, sort, and retrieve media.

Avid Assets
Master clips, sequences, effects, and any other type of asset created by the Avid system that reference digital media files. Avid assets also refer to the media files.

Avid Interplay
Avid Interplay system is a nonlinear workflow engine for managing assets, metadata, workflow, and security.

Avid Unity ISIS media network
Avid Unity ISIS media network allows you to connect the latest in shared storage environments to your media network clients. The shared storage lets you set up a collaborative user environment where several editors can work on a project at the same time using the same media files and audio files.

Avid Unity MediaNetwork
Avid Unity MediaNetwork allows you to connect the shared storage environments to your MediaNetwork clients. The shared storage lets you set up a collaborative user environment where several editors can work on a project at the same time using the same media files and audio files.

browser
A browser is an application program that provides a way to look at and interact with all the information on the World Wide Web.

data
The information about media objects physically stored on drives (optionally mirrored for data security).

database services
The software applications that drive the database functions.

effect

The manipulation of an audio or video signal. Types of film or video effects include special effects (F/X) like morphing; simple effects like dissolves, fades, superimpositions, and wipes; complex effects like keys and DVEs; motion effects like freeze frame and slow motion; and title and character generation. Effects usually have to be rendered because most systems cannot accommodate multiple video streams in real time.

See also *rendering*.

Fibre Channel

Fibre Channel is a technology for transmitting data between computer devices at a data rate of up to 1 Gbps (one billion bits per second). Fibre Channel is especially suited for connecting computer servers to shared storage devices and for interconnecting storage controllers and drives.

Interplay Transfer

The Interplay Transfer system manages the transfer of media to and from Interplay workgroups.

JPEG format

A JPEG file is a graphic image created by choosing from a range of compression qualities (actually, from one of a suite of compression algorithms). When you create a JPEG file or convert an image from another format to a JPEG file, you are asked to specify the quality of image you want. Since the highest quality results in the largest file, you can make a trade-off between image quality and file size.

master clip

The Avid asset that refers to the media files captured from tape or other sources.

MediaNetwork server

The MediaNetwork server controls user access to the shared storage subsystem by logging in users through controlled user accounts with passwords. It also controls which workspaces a user can mount on the MediaNetwork client desktop and whether the user has read or write access to the files on the workspace. This allows a system administrator to control a user's privileges and to manage the shared environment, preventing overwriting or damage to shared media files and audio files.

media objects

Master clips, sequences, effects, and any other type of object that reference digital media.

metadata

Data about data; for example, the clips associated with media files.

mirroring

Duplication of the data on multiple drives in a redundant configuration. In a mirrored configuration, if one data drive fails, the mirrored drive is automatically used instead.

motion effect An effect that speeds up or slows down the presentation of media in a track.

record For every asset, the database stores an associated *record* that contains specific information about the object.

rendering Merging effect layers to create one stream of digital video for play back in real time.

resync The resync process ensures that all the media on Avid Unity has been checked in to Avid Interplay Engine. When media files are copied into a shared storage environment manually, resync is necessary to make the compositional metadata (the clips associated with media files) appear in Avid Interplay Access.

sequence An edited composition that often includes audio and video clips and rendered effects connected by applied transitions.

SQL Server Structured Query Language (SQL) is a standard interactive and programming language for getting information from and updating a database. Although SQL is both an ANSI and an ISO standard, many database products support SQL with proprietary extensions to the standard language. Queries take the form of a command language that lets you select, insert, update, and find out the location of data.

subclip

1. An edited part of a clip. In a sequence, a subclip can be bound by any variation of clip beginnings, endings, and IN or OUT points.
2. A subclip created by marking IN and OUT points in a clip and by saving the frames between the marks. The subclip does not contain pointers to media files. The subclip references the master clip, which alone contains pointers to the media files.

TCP/IP network connection Transmission Control Protocol/Internet Protocol (TCP/IP) is the basic communication language or protocol of the Internet. It can also be used as a communications protocol in the private networks called intranets and in extranets. When you are set up with direct access to the Internet, your computer is provided with a copy of the TCP/IP program just as every other computer that you might send messages to or get information from also has a copy of TCP/IP.

Transfer Engine The Transfer Engine manages the transfer of media to and from Avid Interplay workgroups.

TransferManager

The TransferManager system manages the transfer of media to and from Workgroup 4 workgroups.

Uniform Resource Locator (URL)

A Uniform Resource Locator (URL) is the address of a file (resource) accessible on the Internet.

workspaces

Avid Interplay Engine clients mount media network workspaces on their workstations (requiring a *user account* to do so). Once mounted, workspaces behave like local media drives that can be accessed by others working on the same project. When the workspaces are properly configured, several users can access the same media and start using it immediately after it has been created.

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