

# ITX DELIVERY MANAGER

INTEGRATED CONTENT DELIVERY

## **Configuration and Setup Guide**

iTX v2.7

2015-06-25

www.grassvalley.com

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## **About Delivery Manager**

This chapter explains role of the Delivery Manager module as iTX's media delivery and asset registration tool, as well as outline its architecture, supported endpoints, operational modes and failure resilience models.

#### Summary

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## What is Delivery Manager?

Delivery Manager is an iTX service that retrieves and manages the processing of media and assets that have been stored on, or delivered by, third-party content management systems.

Delivery Manager uses automated workflows to manage end to end schedule-driven content delivery, which eliminates the need for a number of labor-intensive user tasks that are normally required to prepare new media for playout.

Delivery Manager uses custom software plug-ins, called 'endpoint drivers", to interface directly with third party media archives, content stores and network repositories. Each plug-in is designed to interface with a specific type of content storage or archive system and actively searches for and retrieves media from these endpoints as and when they are required for playout.

## **Delivery Manager's Endpoints**

The supported endpoint types can perform a range of content management operations, such as:

- Monitoring external network locations (i.e. drop folders)
- · Acquiring assets when they are placed into the drop folder
- Working with content management software to retrieve media required for broadcast and archiving media that is no longer required.

Once Delivery Manager has been configured to use specific endpoints, the retrieval and archiving of media can be triggered manually by an operator or automatically by a scheduling system, via iTX Missing Materials Manager or an iTX Workflow, as required.



Fig. 1-1: Overview of the relationship between Delivery Manager, Workflow, Missing Material Manager, the endpoints and the iTX media store.

The available endpoint drivers are:

- FTP (File Transfer Protocol), which includes
  - Ascent Media Pitch Blue Archive
  - Grass Valley K2
- · CIFS (Common Internet File Systems), which includes
  - SMB (Server Message Block)
  - Signiant Media Exchange Archive
- Front Porch Digital DIVArchive
- DG PathFire Media Distribution and Management System
- MassTech Archive Solutions
- Viz Ardome Media Management System
- SGL FlashNet Archive
- Core endpoint
- iTXV1Driver endpoint

For more information Delivery Manager's content management features and which ones each endpoint supports, see Delivery Manager Feature Set, on page 83.

Endpoint category	Description
Network share endpoints	<ul> <li>Network share endpoints use an established IT network file transfer protocol to monitor shared directories within a network and transfer any files placed there using the standard IT transfer methods. These are:</li> <li>FTP The FTP endpoint can also be configured to access content on Omneon Spectrum video servers.</li> <li>CIFS The CIFS endpoint can be configured to access content on Omneon Media Grid servers.</li> </ul>
Third party archive and content store endpoints	<ul> <li>These endpoints interface directly to either a proprietary third party media archive or storage management application.</li> <li>In these cases, Delivery Manager's endpoints do not access the stored files directly themselves, they simply query and make transfer requests to the third party system which then handles delivery of the media to an iTX Location.</li> <li>The third party system may use a standard IT file transfer method to execute the copying of the stored files to a specified iTX location, or it may 'restore' the requested media to a network shared location that is part of the archive or storage system, where Delivery Manager can then transfer the file into iTX.</li> <li>Depending on the system, separate asset metadata (in the form of an XML file) may also be requested for retrieval and transfer into iTX.</li> <li>These endpoints are: <ul> <li>Front Porch Digital DIVArchive</li> <li>DG PathFire Media Distribution and Management System</li> <li>MassTech Archive Solutions</li> <li>Viz Ardome Media Management System</li> <li>Ascent Media Pitch Blue Archive (using the FTP protocol)</li> <li>Signiant Media Exchange Archive (using the CIFS protocol)</li> </ul> </li> </ul>
Core endpoint (for legacy media management systems)	Since there are major differences between iTX 2.x and the older iTX 1.4 and Colossus database structures, these systems cannot be integrated. Instead, Delivery Manager has a special endpoint called the Core endpoint that interfaces with these legacy systems (which are sometimes referred to as Core systems).
iTXV1 endpoint	In addition to the Core endpoint, the iTXV1 endpoint allows the metadata for video clips and subtitles on an iTX 1.4 database to be migrated to an iTX v2.4.10 SP7 database using a "register in place" system, so that the two systems can share a common media store.

Each of these endpoints can be categorized in one of three ways, based on what type of content archive, delivery systems or protocols they interface with, as described in the table below:

## **Delivery Manager's Modes of Operation**

Depending on the endpoint driver being used, Delivery Manager can react to content delivered to the monitored locations, actively seek content required for schedules or be manually controlled by an operator. The mode of operation is defined by the selected workflow or mode option in the endpoint configuration profile.

### **Content Changed (or Drop Box) Mode**

This mode uses Delivery Manager's own internal workflow engine to determine which new media files need to be registered or updated and at what time.

Content Changed mode requires that a network share is configured as a monitored location within the appropriate endpoint configuration. Delivery Manager monitors the location for the presence of new or updated files. Delivery Manager processes new content intelligently, prioritizing material required for playout.

File status	Delivery Manager action
File is required by a currently active schedule	Delivery Manager moves the file to an iTX store and updates the database with the new asset's information and availability by placing the task in the active jobs queue.
New file that is not yet required by any known schedule	Delivery Manager creates an Asset Record in the database. In order to avoid unnecessary network bandwidth, the file will not be processed until required. When the file appears in a schedule it will then be transferred to an iTX location and the Asset Record updated.
An updated version of a file that already exists in iTX	Delivery Manager updates the Asset Record for that file. If the new version of the file is required for playout it will be transferred to iTX and the original version will be deleted.
File not yet required for playout	The updated version of the file remains in the monitored location until it is required

When new or updated files are detected, Delivery Manager does one of the following:

The internal workflow that handles all Content Changed Mode actions needs to be selected in the configuration options for the endpoint's configuration profile, using the **Content Changed Workflow** field.

### Search Media (or Missing Materials) Mode

When configured in Search Media mode, the endpoint responds to "Find Content" requests from Delivery Manager clients. When a search request is received, the CIFS driver searches for any configured file type with the same name as the search request in the configured search folder, and any of its sub folders (if configured), excluding any specifically configured exclude folders. If a matching file is found, the driver generates a block of Asset XML detailing the media, and returns it to Delivery Manager.

The Missing Materials Manager can be configured to query Delivery Manager's endpoints when they attempt to locate and import the media required by channels that are not currently located within iTX.

Once found, Missing Materials Manager then triggers a workflow that creates the new asset (and its new location) in the iTX database, so that the media can be copied to an iTX location. The workflow then requests the Delivery Manager endpoint to import the actual media file.

The internal workflow that handles all Search Media mode actions needs to be selected in the endpoint configuration profile, using the **Cache Content Workflow** field.

For more information on the additional setup required to operated in Search Media mode, see Additional Setup for Search Media mode, on page 63.

### Manual (or Export) mode

In a busy and complex playout facility, manual media management might often be needed. System administrators or media managers may need to free up space on content stores to allow new content to be ingested. Late arriving content may need to be processed quickly by hand, rather than queued in a job list, or last minute schedule changes may require media to be pulled into the system rapidly.

Delivery Manager therefore allows users with CIFS endpoints to move media assets in and out of the system on an ad-hoc basis.

These manually triggered jobs are initiated by action buttons on the Asset Layout of the iTX Desktop or SmartClient:

- Move a clip to an externally managed third party archive system.
- Restore a clip from an externally managed third party archive system.

The following additional jobs may only be carried out in conjunction with a DIVArchive system:

- Partial Restore of a clip from an external archive (DIVA Only).
- Export of a ShotList to an **external** location (usually a network share) outside of iTX (DIVA Only).

Unlike the Content Changed and Search Media modes, no workflows are required to perform these manual operations.

For more information on the additional setup required to operated in manual or Export mode, see Additional Setup for Manual/Export Mode, on page 65.

## **Modes of Operation and Endpoints**

The table below shows which modes each endpoint supports:

Endpoint driver	Content Changed mode	Search Media mode	Manual (export) mode
CIFS	$\checkmark$	$\checkmark$	$\checkmark$
FTP		$\checkmark$	
Diva	$\checkmark$	$\checkmark$	$\checkmark$
MassTech	$\checkmark$	$\checkmark$	
PathFire		$\checkmark$	
Ardome		$\checkmark$	
FlashNet		$\checkmark$	$\checkmark$
Core	$\checkmark$	$\checkmark$	
ITXV1	$\checkmark$		

## **Delivery Manager and Workflows**

Depending on the task its performing, Delivery Manager uses one of two workflow systems.

- To trigger automated workflow operations (called 'jobs'), Delivery Manager uses its internal workflow engine.
- To transfer media (and any associated metadata) to the iTX content store and database, Delivery Manager uses the ITX Workflow service.

Custom workflows (in the form of XML files) can also be created in iTX Workflow to further enhance Delivery Manager's functionality. These workflows may provide the ability to process different types of content and trigger other jobs (such as QC or file verification) to prepare media for playout.

#### **Post Media Import Workflows**

The Post Media Import process is a series of jobs triggered by a workflow following the import of a new piece of media into Delivery Manager. This workflow runs internally for all endpoints and therefore all media import jobs, which includes:

- · Generation of proxy media copies for SmartClient and Desktop viewing.
- Generation of key frames for viewing in SmartClient.
- Deep analysis of the media file for extraction of metadata about the media.

Note: The Post Media Import workflow is added to all endpoints by default and is part of the standard Delivery Manager installation, but requires FPP Transcode Service to function.

To generate proxy media, the Proxy Generation Service is required.

## **Delivery Manager's Distribution and Resilience Models**

Delivery Manager can be installed on one or more framework servers, each running one or more instances of the service. Each instance of the service requires its own configuration profile and each configuration profile can monitor multiple endpoints in different modes, in order to manage different groups of content sources.

iTX can apply a single asset template (also known as clip templates) per monitored directory, so that media of different resolutions is deposited in separate (and appropriately named) folders, each with their own configured endpoint. You can apply an iTX media asset template to all clips, so that they are registered with the same characteristics.

For example, if you acquire both HD and SD media using a drop box, then SD media should be placed in a folder named "SD" and HD media should be placed in a folder named "HD". Each folder should have its own endpoint to monitor it, as it then applies the appropriate asset template.

Figure 1-2 below illustrates the different combinations of server, configuration profiles, instances and endpoints that can be used.



Single server, single instance

Fig. 1-2: Distribution models for single and multiple servers.

Multiple configuration

profiles per server

Multiple

framework servers

These different distribution models can also be used to provide uninterrupted service in the event of software or hardware failure. Whether you are running multiple instances on a single server or you have multiple servers, Delivery Manager can be configured to provide one of two resilience models.

End points

Multiple Delivery Manager

services per serve

### Load balanced system

Delivery Manager's workload can be balanced by spreading the monitored endpoints across multiple instances of the service. Some degree of load balancing can be achieved by running multiple instances of Delivery Manager on a single server, but ideally the monitored endpoints should be spread across instances running on their own framework server.

This is illustrated in Figure 1-3 below, where four endpoints (A to D) are shared between two instances of Delivery Manager.



Fig. 1-3: Four endpoints load balanced between two instances of the Delivery Manager service.

By distributing your endpoints across multiple instances of Delivery Manager you reduce the workload on each individual instance. Where each instance is also on a different framework server, the workload is better distributed.

The table below shows how the number of servers and instances of Delivery Manager provide a sliding scale of load balancing effectiveness.

Servers	Instances	Endpoints	Load balancing effectiveness
One	One	Multiple in a single configuration profile	Poor
One	Multiple	Multiple per configuration profile	Good
One	Multiple	One per configuration profile	Good
Multiple	Multiple per server	Multiple per configuration profile, per server	Better
Multiple	Multiple per server	One per configuration profile, per server	
Multiple	One per server	One per server	Best

## **Endpoint monitoring system**

In order to create an endpoint monitoring system you need to have Delivery Manager running on two framework servers, using identical configuration profiles. When two instances with the same name are started, the one that started first becomes the main (or promoted) instance and the one that started second becomes the backup instance.

The backup instance monitors the main instance and if the main instance stops responding, the backup instance will promote itself and all jobs pass over to it. The backup will remain as the promoted instance from that point on, even if the original main instance is restored.

The relationship is not hierarchical and it is not possible to have two instances with the same name under the control of one Delivery Manager instance.

Figure 1-4 below shows the same two endpoints (A and B) are configured on two instances of Delivery Manager. Cloning endpoints reduces the risk of an individual endpoint failure causing media transfers to stall.



Fig. 1-4: Endpoint monitoring each instance must be running on a different framework server.

## **Installing Delivery Manager**

This chapter explains how to install the Delivery Manager service itself.

#### Summary

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## Installing the Delivery Manager service

If your facility stores content or has media delivered via servers or archives external to iTX, then Delivery Manager should be installed on an iTX framework server. This should be done as either a stand-alone service or in conjunction with any of the other framework services that iTX requires in order to manage the delivery of media into the system.

#### Note:

- You will need to be logged on with Administrative Rights to perform the installation.
- Whether or not you require workflows, the Workflow Service must also be installed as a prerequisite of Delivery Manager.

#### To install Delivery Manager:

- 1 Extract the contents of the iTX Zip file on the Framework Server you wish to install Delivery Manager on.
- 2 Right click on the **Setup.exe** that is contained within the iTX 2.x Suite folder.

#### Select Run as Administrator.

- a If this is a fresh installation, the **Option Selection Window** appears in front of the main installation screen.
- b If performing an upgrade or addition to an existing server, click the **Select Software** on the bottom left of the main Installation window. The **Select Software** window appears.
- 3 From the Select Software menu, expand External Interface.
- 4 Check **Delivery Manager**. By default, all the required components will also be checked.

External Interfaces
Alert Forwarding Server
BXF
🖨 🔽 Delivery Manager Service
— Microsoft Visual C++ 2005 Redistributable
- V File Processing Pipeline
MediaUtils
1 1

#### 5 Expand Workflow.

#### 6 Check Workflow Server.

This will install the Workflow Service, which is required for Delivery Manager to function correctly.

- 7 Click OK.
- 8 On the main installation splash screen, you will see **Delivery Manager** added to the list of components you are installing. Click **Continue**.

The Delivery Manager installation will start.

The installer guides you through the installation steps, including providing details of the iTX Domain and the means by which the service communicates with the rest of the iTX Framework Services. For more information on installing iTX, see the iTX System Administrator Guide.

**Delivery Manager is installed to the standard iTX location of** C:\Program Files\iTX 2.0\Services.

## What's next?

Once Installation has completed, you need to perform the following tasks in order to use Delivery Manager:

1 Create a configuration profile.

See Configuration Profiles and Endpoint Tabs, on page 15.

- 2 Add and configure your required endpoints. See the following chapters for more information:
  - Adding a CIFS Endpoint, on page 21.
  - Adding an FTP Endpoint, on page 24.
  - Adding a Pitch Blue Endpoint, on page 26.
  - Adding a DIVA Endpoint, on page 27.
  - Adding MassTech Endpoints, on page 32.
  - Adding a PathFire Endpoint, on page 34.
  - Adding Ardome Endpoints, on page 36.
  - Adding FlashNet Endpoints, on page 37.
  - Adding Core Endpoints, on page 39.
  - Adding iTXV1 Endpoints, on page 51

- Configure the Server Controller to run the Delivery Manager service. This may also include configuring a resilience model.
   See Configuring the Server Controller, on page 57 and Setting Up Delivery Manager Resilience, on page 61.
- 4 Set up your required resilience model. See Setting Up Delivery Manager Resilience on page 61.
- 5 Finalize your Delivery Manager system by installing and configuring any additional systems and services that are required.

See Finalizing the Delivery Manager System, on page 65.

## **Configuration Profiles and Endpoint Tabs**

Although Delivery Manager provides a blank Default configuration profile on first installation, it is recommended that you create named profile, as this provides more control should you need to change endpoints or set up either of the resilience models.

This chapter explains how to create a configuration profile, the basic steps for adding an endpoint, an overview of the endpoint tab and how to remove a configuration profile.

#### Summary

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## **Creating a New Configuration Profile**

#### To create a new, named configuration profile:

- From Windows, click START > All Programs > iTX 2.0 > Delivery Manager Config. The Select Configuration dialog is displayed.
- 2 In a blank area of the **Select Configuration** dialog, right-click and select **Add new configuration** from the context menu.
- 3 A dialog appears with a prompt for the new configuration name. The name you enter will also be used to identify the corresponding instance in **Server Controller Config**, e.g. "CIFS Search" for a CIFS endpoint configured in Search Media mode.
- 4 Click **OK** to confirm your selection. The new named configuration profile appears in the **Select Configuration** list.
- 5 Add endpoint tabs to store the configuration for each endpoint you required. For more information see Basic Steps for Adding an Endpoint, on page 15.

## **Basic Steps for Adding an Endpoint**

To add a new endpoint to a Delivery Manager configuration profile:

- 1 In the **Select Configuration** window, select a configuration profile and click **OK**. A blank endpoint tab appears.
- 2 On the blank endpoint dialog, click **Add new Endpoint.** A blank "new" endpoint tab appears.

nd Points								
ew								
End Point Driver:				Select			Ena	abled 🔽
End Point Name:	new					Wo	rkflow Pro	perties
Content Changed	Workflow:							
Content Deleted V	Vorkflow:							
Cache Content W	orkflow:							
Post Media Import	Workflow:	DefaultPostMedia	Import					
						✓ Gene	erate Proxy	/
Asset Template Na	ame:							
Allow Media D	eletes Ma	aximum Concurrent	Delete Jobs:	0	0 = up to max jobs			
C Allow Media D	eletes Ma	simum Concurrent	Delete Jobs:		0 = up to max jobs			

- 3 Click the Select button next to the Endpoint Driver field. The Select Delivery Manager Driver dialog appears.
- 4 Select an endpoint driver and click **OK**.
- 5 In the **Endpoint Name** field, enter the name to be used as a reference in the iTX database.
- 6 Complete the dialog boxes that appear for the selected endpoint driver.

For information on the properties that are common to most of the endpoints, see Generic Endpoint Configuration Settings, on page 18.

Specific instructions for each endpoint type can be found on the following pages:

- Adding a CIFS Endpoint, on page 21.
- Adding an FTP Endpoint, on page 24.
- Adding a Pitch Blue Endpoint, on page 26.
- Adding a DIVA Endpoint, on page 27.
- Adding MassTech Endpoints, on page 32.
- Adding a PathFire Endpoint, on page 34.
- Adding Ardome Endpoints, on page 36.
- Adding FlashNet Endpoints, on page 37.
- Adding Core Endpoints, on page 39.
- Adding iTXV1 Endpoints, on page 51
- 7 If you wish to add another endpoint, click Add New Endpoint.

Another "new" tab appears. Follow step 2 to step 6 on page 16 to configure each new endpoint.

- 8 Click Save then Close.
- 9 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.

## **About Endpoint Configuration Tabs**

When a driver for an endpoint is selected, the corresponding configuration options are displayed. Certain generic options are shared by all of the endpoints types, but each endpoint also has its own options. The image below shows the interface for an FTP endpoint.

elivery Manager (	Configuration - Example FTP	×	
TP 1			
End Point Driver:	FTPDriver Select	Enabled 📝	
End Point Name:	FTP 1	Workflow Properties	
Content Changed	Workflow:		
Content Deleted \	Norkflow:		
Cache Content W	'orkflow:		Generic end point setting
Post Media Import	Workflow: DefaultPostMediaImport		
		Generate Proxy	
Asset Template N	ame:		
Maximum Concurr	ent Jobs: 5 🥌 0 = unlimited		
Allow Media D	Deletes Maximum Concurrent Delete Jobs: 0 🖨 0 = up to ma	ax iobs	
ETP Server Deta	ile .		
IP Address	Port 21		
User Name	Password		
Server Type	GVG K2  Microsoft IIS  Other	=	
Supports Pro	oxy Transfer		
Supports RF	C3659 Case-sensitive Test Connection		End point specific setting
FTP End Point D	Details		End point specific setting
Mode:	Search Media		
Media Path			
Search Sub	Folders		
Extensions			
DA REAL Y		τ	
Add New End P	oint Remove Current End Point		
		Same Class	
		Jave Close	

The specific endpoint configuration options are described in each endpoint's chapter.

## **Generic Endpoint Configuration Settings**

The following configuration options are common to all endpoints and can be configured in different ways. Therefore the following guidelines should be considered when adding and configuring endpoints.

Setting	Description
Content Changed Workflow	Click the browse button, then select the workflow to be used when a new asset is discovered. Click <b>OK</b> to confirm you choice.
Content Deleted Workflow	Click the browse button, then select the workflow to be used when an asset is deleted. Click <b>OK</b> to confirm you choice.
Cache Content Workflow	Click the browse button, then select the workflow used to move media and assets from the monitored endpoint to the iTX store (which may trigger other jobs also). Click <b>OK</b> to confirm you choice
Post Media Import Workflow	The Post Media Import is an optional setting. See Post Media Import Workflows, on page 6 for more information.
Generate Proxy	This checkbox is only available when the <b>Post Media Import</b> <b>Workflow</b> is field is available. When checked, low resolution proxy versions of the media (e.g. smooth stream or MP4) will be generated on import.
Asset Template Name	Click the browse button, then select an iTX media asset template, so that all of the clips are registered with the same characteristics. Click OK to confirm your choice. For more information on creating asset templates see the <i>iTX System</i> <i>Administration Guide</i> .
Max Concurrent Jobs	Enter a value for the total number of jobs that are allowed to run simultaneously from the endpoint. The default is 5. A value of 0 is equal to unlimited.
Allow Media Deletes	Check this option if you want the endpoint driver to process and act upon delete requests. When an endpoint is operating in Content Change mode and is monitoring a network repository where media is placed temporarily (i.e. just for iTX to ingest) it is recommended that this option is checked. This means that once new media has been processed and ingested, the copy deposited in the Content Change folder is actively deleted by iTX. However, if an endpoint is running in Content Change mode but is monitoring a permanent network store, such as a NAS, then the option should be unchecked to prevent accidental deletion of media being added to the storage. Checking this option also makes the <b>Maximum Concurrent Delete</b> <b>Jobs</b> option appear.
Maximum Concurrent Delete Jobs	This setting is only available if <b>Allow Media Deletes</b> is checked. The maximum number of concurrent delete jobs you can set is 5.

Setting	Description
Keep Media Location	This option appears within the configuration options for certain endpoint types. If you are exporting media or sending it an archive that is external to iTX, you should consider checking this option. When checked, the iTX database knows where the media has been moved to. Retrieving and restoring the media to iTX is then a quicker process, as Delivery Manager does not need to request all endpoints to search their stores or archives when trying to find this asset.
Test Connection	If available, click this button to connect to the endpoint using the current settings. This will confirm if the endpoint is correctly configured.

## **Removing a Configuration Profile**

If you have created additional configuration profiles they can be removed from the Delivery Manager Config. However, once a configuration profile has been removed it cannot be restored.

Note: You cannot remove the Default configuration profile. If you no longer require the Default configuration profile, you can remove all of the endpoints configured within it. If a Delivery Manager service attempts to use a blank configuration profile, the service will fail to start.

To remove a Delivery Manager configuration,

- 1 From Windows, click START > All Programs > iTX 2.0 > Delivery Manager Config. The Select Configuration dialog appears, listing all of the existing configuration profiles.
- 2 In the Select Configuration dialog, click on a configuration profile name to select it.
- 3 Right click on the selected configuration profile and choose Remove Configuration.
- 4 A dialog appears asking you to confirm the removal.

Delivery Manager Configu	ration	23
Are you sure you want to	remove configuration '	CIFS1'?
	Yes	<u>N</u> o

5 Click Yes.

Note: If you only want to remove a single endpoint, open the configuration profile, select the endpoint table and click **Remove Current Endpoint**.

## **Adding Network Share Endpoints**

This chapter explains the prerequisites and configuration steps required to add any of the supported network share endpoints.

#### Summary

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## **Adding a CIFS Endpoint**

#### Configuring a CIFS Endpoint in Content Change (Drop Box) Mode

#### To add a CIFS endpoint in Content Change (Drop Box) mode:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select CIFS and click OK.
- 4 In the Endpoint Name field, enter the name to be used as a reference in the iTX database. For example, "CIFS Drop Box".
- 5 Click the browse button for the **Content Changed Workflow** field. The **Select 'Content Changed' Workflow...** dialog appears.
- 6 Select the required workflow for performing drop box actions. This workflow should register an asset but not transfer the file. For example DefaultContentChanged\_RegisterAndImport.
- 7 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 8 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 9 Click the browse button for Asset Template Name. The Select Asset Template dialog appears.
- 10 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.

- 11 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 12 Under CIFS Endpoint Details, select Drop Box.
- 13 In the Media Path field, enter the UNC path of the directory being monitored.
- 14 Complete the fields in the CIFS Endpoint Details, as described in CIFS Endpoint Details Reference, on page 23.
- 15 Click Save then Close.
- 16 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.

#### **Configuring a CIFS Endpoint in Search Media Mode**

#### To add a CIFS endpoint in Search Media mode:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select CIFS and click OK.
- 4 In the Endpoint Name field, enter the name to be used as a reference in the iTX database. For example, "CIFS Search Media".
- 5 Click the browse button for the **Cache Content Workflow** field. The **Select 'Cache Media' Workflow...** dialog appears.
- 6 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMedia.
- 7 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 8 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 9 Click the browse button for Asset Template Name. The Select Asset Template dialog appears.
- 10 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 11 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 12 If required, check Allow Media Deletes, then Specify the Maximum Concurrent Delete Jobs you want this endpoint to process.
- 13 Under CIFS Endpoint Details, select Search Media.
- 14 In the Media Path field, enter the UNC path of the directory being monitored.
- 15 Complete the fields in the **CIFS Endpoint Details**, as described in CIFS Endpoint Details Reference, on page 23.
- 16 Click Save then Close.

- 17 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 18 To use a CIFS endpoint in Search Media mode, you must also complete the steps described in Additional Setup for Search Media mode, on page 65.

### Adding a CIFS Endpoint in Manual Mode

#### To add a CIFS endpoint in manual (Export) mode:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select CIFS and click OK.
- 4 In the **Endpoint Name** field, enter the name to be used as a reference in the iTX database. For example, "CIFS Export".
- 5 Click the browse button for **Asset Template Name**. The **Select Asset Template** dialog appears.
- 6 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 7 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 8 Under CIFS Endpoint Details, select Export.
- 9 In the Media Path field, enter the UNC path of the directory being monitored.
- 10 Complete the fields in the CIFS Endpoint Details, as described in CIFS Endpoint Details Reference, on page 23.
- 11 Click Save then Close.
- 12 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 13 To use a CIFS endpoint in manual mode, you must also complete the steps described in Additional Setup for Manual/Export Mode, on page 67.

## **CIFS Endpoint Details Reference**

The table below describes the additional configuration options contained within the **CIFS Endpoint Details** section of a CIFS endpoint.

Setting	Description
Mode	CIFS endpoints can operate in Drop Box (Content Changed) Mode, Search Media mode or Export Mode.
Media Path	The UNC path of the directory being monitored.
Search Sub Folders (on/off)	The endpoint driver searches any folders contained within the designated media folder.

Setting	Description
File Extensions	List of file extensions to be processed. If you want all file types to be processed, leave this field blank.
Default Extension	If restoring files that have no file extension from an external archive, the extension entered here will be added to each file name when they are transferred into iTX.
Exclude Folders	Using add/remove buttons you can add details of sub folders you wish to exclude. This is a search string, so the folders need to be typed in the dialog like this: *\folder_name\*
	When using CIFS endpoints with Omneon essence based media, add media.dir to the list of excluded folders to prevent Delivery Manager viewing components from essence based media files as individual assets.
Keep Media Location	This option instructs the database to keep the original location of the media as part of the asset record (if the file is being copied rather than transferred).
Remove File Extension on Archive	Some archives and media stores do not support DOS file extensions, because they only support one file type, meaning the extension is not required. This endpoint option removes the file extension from the file name when it is moved to an archive.
Maximum Transfer Bitrate	This slider sets the throttle rate on network file transfer speeds for each file. The default is 100mbs.

## **Adding an FTP Endpoint**

FTP endpoints can be configured as generic FTP endpoints, a Grass Valley K2 or a PitchBlue endpoint. They work in the same as any standard FTP client, such as FileZilla. Therefore, the FTP endpoint's configuration options reflect standard FTP requirements and settings.

FTP endpoints only operate in Search Media Mode.

#### To add an FTP endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select FTPDriver and click OK.
- 4 In the **Endpoint Name** field, enter the name to be used as a reference in the iTX database. For example, "FTP K2".
- 5 Click the browse button for the **Cache Content Workflow** field. The **Select 'Cache Media' Workflow...** dialog appears.

- 6 Select the required workflow for performing Content Change actions. For example DefaultCacheMedia.
- 7 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 8 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 9 Click the browse button for **Asset Template Name**. The **Select Asset Template** dialog appears.
- 10 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 11 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 12 If required, check **Allow Media Deletes**, then Specify the **Maximum Concurrent Delete Jobs** you want this endpoint to process.
- 13 In the FTP Server Details section, complete the following fields:

Setting	Description
IP Address	The IP Address of the FTP Server
Port	TCP/IP Port used by the FTP Server (usually 20 or 21)
Username	The username required to access the FTP folder
Password	The password required to access the FTP folder
Server Type	<ul> <li>Select the type of FTP server you are connecting to. The options are:</li> <li>GVG K2</li> <li>Microsoft IIS</li> <li>Other</li> </ul>
Supports Proxy Transfer	Support FTP Proxy Server transfers from an FTP Server. (Note: server to server FTP requires FTP access to the iTX Store). Disabling this option forces the transfer to be pulled from the external FTP through Delivery Manager
Supports RFC3659	RFC3659 is an extension to the standard set of FTP commands that includes the use of character sets other than US-ASCII

14 In the FTP Endpoint Details section, complete the following fields, as required:

Setting	Description
Mode (Search Media only)	FTP endpoints can only operate in Search Media mode.
Media Path	The UNC path of the directory being monitored.
Search Sub Folders (on/off)	The endpoint driver also searches any folders contained within the designated media folder.
Extensions	List of file extensions to be processed. If you want all file types to be processed, leave this field blank.

Setting	Description
Default Extension	If restoring files from an external archive that have no file extension, this is the default extension type is added to the file name when transferred into iTX.
Exclude Folders	Using add/remove buttons you can add details of sub folders you wish to exclude. Note: this is a search string, so the folders need to be typed using the syntax: *\folder name\*.
Keep Media Location	This option instructs the database to keep the original location of the media as part of the asset record (if the file is being copied rather than transferred).
Remove File Extension on Archive	Some archive and media stores do not support DOS file extensions. This is because they only support one file type, meaning the extension is not required. This option removes the file extension from the file name when moving to an archive.
Maximum Transfer Bitrate	This slider sets the throttle rate on network file transfer speeds for each file. The default is 100mbs.

- 15 Click Save then Close.
- 16 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 17 As FTP endpoints can only operate in Search Media mode, you must also complete the steps described in Additional Setup for Search Media mode, on page 65.

## **Adding a Pitch Blue Endpoint**

Pitch Blue uses the standard FTP protocol, but requires a specific 'hard coded' username and password, which needs to be entered into the configuration dialog of the Pitch Blue archive itself. This is because the Pitch Blue archive delivery system uses a dedicated proprietary computer for content delivery. The Username and Password FTP connection details are supplied to you when your Pitch Blue System is installed. If you do not know these details, contact your IT department.

## **Adding 3rd Party Endpoints**

This section explains the prerequisites and configuration steps required to add any of the supported 3rd party endpoints.

#### Summary

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## **Adding a DIVA Endpoint**

**Prerequisites for DIVA Endpoints in Manual Mode** 

#### Configure DIVA to restore media to iTX

When the DIVArchive is added to your iTX system for the first time, you need to add an entry to the DIVA Manager with the location of the server to which Delivery Manager is asking it to restore media.

#### To configure DIVA Manager with the location of the media store server:

- 1 On the DIVArchive server, open the Configuration Utility.
- 2 In the **Sources and Destinations** section, click the + in the top right corner. The **Edit Row** window appears.
- 3 In the **Source Name** field, enter Store name from Opus. The case must match the case of the Store name in Opus Store Management.
- 4 In the **Root Path** field, enter the location of the folder on the media store DIVA should use to restore media.

Edit Row						
Source Name:	SVRQA1048CIFS					
IP Address:	10.118.101.1					
Source Type:	CIFS	•				
Prod. System:	Omnibus 🗸					
Site:	local 🗸					
Connect Options:	-login Ibqaitxllbqaitxadmin -pass Subinmo123					
Root Path:	\\10.118.101.1\store1					
Max Throughput (Mb/s):	1000					
Max Accesses:	10					
Max Read Accesses:	10					
Max Write Accesses:	10					
	OK Car	ncel				

- 5 Click OK. The Edit Row window closes.
- 6 On the **Configuration Utility**, click **Update** to apply the changes.

#### **Configure DIVA to archive media**

For archive requests, you will also need to create an entry in DIVA Manager with the host name of the Opus store.

#### To configure DIVA Manager for archive requests:

- 1 On the DIVArchive server, open the Configuration Utility.
- 2 In the **Sources and Destinations** section, click the + in the top right corner. The **Edit Row** window appears.
- 3 In the **Source Name** field, enter host name of the Opus store. The name must be entered in all capital letters (e.g. ISILON01.PLAYOUT.COM).
- 4 In the **Root Path** field, enter the location of the folder on the Opus store for media archive.

Sedit Row	×						
Source Name:	ISILON01.PLAYOUT.COM						
IP Address:	10.118.101.1						
Source Type:	CIFS						
Prod. System:	Omnibus 🗸						
Site:	local 🗸						
Connect Options:	-login Ibqaib(lbqaib;admin -pass Subinmo123						
Root Path:	10.118.101.1\store1						
Max Throughput (Mb/s):	1000						
Max Accesses:	10						
Max Read Accesses:	10						
Max Write Accesses:	10 :						
1	OK Cancel						

- 5 Click OK. The Edit Row window closes.
- 6 On the **Configuration Utility**, click **Update** to apply the changes.

#### **Configure the default Opus store**

Delivery Manager requests that the media be restored to the Opus Admin Default Store, so if you are adding multiple stores to DIVA, the Opus Admin Default must be one of the stores you add.

Note: Delivery Manager's endpoint passes a restore request to DIVA using the default store name, so the **Source Name** in DIVA must match the name in the **Store** field in Opus.

You configure which store is the default store for Opus to use via the iTX Desktop's **Engineering layout**.

#### To configure the default Opus store from the Engineering layout:

- 1 Open the iTX Desktop Client and select the **Engineering** layout.
- 2 In the System Admin section, click Opus Admin.
- 3 In the Store Management section, select the store from the Store drop down dialog:

Store Man	age	ment						
Store	Ast	ore						• 2
Title	A sto	ore						
Assets	1							
Default Store	$\checkmark$							
Accessors								
Accessor		Base UR	I					
Unknown								
						+ AF	P	•
						Delete		Save

- 4 Check Default Store.
- 5 On the Opus Admin window, click **Save**, then **Close**.

#### **Configure DIVA for partial restores**

Because the DIVArchive Manager software can only read embedded time codes (such as time of day or feeds recorded with a start time of 10:00:00:00) from some file formats, a configuration file (called PartialRestore.conf) found in the DIVA Actor directory must be edited to instruct DIVA to ignore the original time codes associated with the asset and calculate the Co-reference clip in and out points as if they start from 0.

Note: This is currently restricted to Quicktime MOV file formats, both selfcontained and referenced based types.

#### To edit the partial restore configuration file:

```
1 In Windows Explorer, navigate to:
```

```
C:\<DIVA install folder>\Program\Actor\conf\actor
```

Note: The Diva install folder can be named anything as part of the DIVA Manager install process.

- 2 Open the file Partial Restore.conf in a text editor, such as Windows Notepad.
- **3** Locate the parameter XXX\_IGNORE\_START\_TIMECODE (where XXX is the media format extension type).
- 4 To enable 0 based time code calculations for Co-Reference clip generation, set this value to '1' for each media type you have archived on DIVA.

For example, for a QuickTime file, locate and edit QT\_IGNORE\_START\_TIMECODE=01 so that it reads QT\_IGNORE\_START\_TIMECODE=1

5 Once all of the required entries have been modified, the edited section of the file will look like this (where the modified lines are in italics):

```
# If the parameter XXX_IGNORE_START_TIMECODE is set to 1, partial
restore
\# will ignore the SOM value of the original clip and process TCIN and
TCOUT as if
# it starts from 00:00:00:00.
# Default value is 0
# QuickTime specific options
QT_IGNORE_START_TIMECODE=1
# Avi specific options
AVI IGNORE START TIMECODE=1
# EVS MXF specific options
EVS_MXF_IGNORE_START_TIMECODE=1
```

6 Save and close the PartialRestore.conf file.

### **Configuring a DIVA Endpoint**

DIVArchive endpoints are able to operate in Content Change, Search Media and manual modes, depending on whether or not certain workflows are selected during the configuration.

#### **IMPORTANT**

You should not attempt to operate a single endpoint configuration in more than one mode. For example, if you are using the DIVArchive in Content Change mode you should select a **Content Changed Workflow** and not select a **Cache Content Workflow** within the same configuration profile.
#### To add a DIVA endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select DivaDriver and click OK.
- 4 In the **Endpoint Name** field, the name you enter must match the corresponding DIVA category name.
- 5 If you are operating a DIVArchive in **manual mode**, none of the workflow fields need to be populated.
- 6 If you are operating a DIVArchive in **Content Change mode**:
  - a Click the browse button for the **Content Changed Workflow** field. The **Select 'Content Changed' Workflow...** dialog appears.
  - b Select the required workflow for moving media and assets to the iTX store. For example DefaultContentChanged\_RegisterOnly.
- 7 If you are operating a DIVArchive in Search Media mode:
  - a Click the browse button for the Cache Content Workflow field. The Select 'Cache Media' Workflow... dialog appears.
  - b Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMedia.
- 8 If you want the endpoint to manage asset deletions, click the browse button for **Content Deleted Workflow** and select the required workflow. For example DefaultDivaDelete\_RemoveLocation.
- 9 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 10 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 11 Click the browse button for **Asset Template Name**. The **Select Asset Template** dialog appears.
- 12 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 13 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 14 If required, check **Allow Media Deletes**, then Specify the **Maximum Concurrent Delete Jobs** you want this endpoint to process.

15 In the Diva Archive Configuration section, complete the following as required:

Setting	Description
Allow Overwriting Archive	When moving an asset to the archive, this checkbox allows overwriting of an asset if it already exists on the DIVA. If not enabled then archive jobs will fail if the object already exists on the DIVA in the category of the endpoint.
Monitor DIVA for Changes	If this checkbox is enabled, the endpoint regularly checks the DIVA for objects in the category of that endpoint that have been created, modified, or deleted and update iTX accordingly.
	The status of the connection to the DIVA of each endpoint is checked every 30 seconds. If the connection is lost, the health indicator turns red for the endpoint on the Delivery Manager Service.
	It automatically tries to reconnect to the DIVA. If the connection is re-established, the status light returns to green.
Max Concurrent Jobs	The highest number of jobs that are allowed to run simultaneously from that endpoint.
Manager IP Address	The IP address of the DIVArchive Manager Server.
Port	The TCP/IP Port that the endpoint communicates with the archive on.

- 16 Click Save then Close.
- 17 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 18 Finalize the Delivery Manager setup:
  - To use a DIVA endpoint in Search Media mode, you must also complete the steps described in Additional Setup for Search Media mode, on page 65.
  - To use a DIVA endpoint in manual mode, you must also complete the steps described in Additional Setup for Manual/Export Mode, on page 67.

# **Adding MassTech Endpoints**

MassTech endpoints are able to operate in Content Change and Search Media, depending on whether or not certain workflows are selected during the configuration.

#### IMPORTANT

You should not attempt to operate a single endpoint configuration in more than one mode. For example, if you are using the MassTech archive in Content Change mode you should select a **Content Changed Workflow** and not select a **Cache Content Workflow** within the same configuration profile.

#### To add a MassTech endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select MassTech and click OK.
- 4 In the Endpoint Name field, enter the name to be used as a reference in the iTX database. For example, "MassTech Archive".
- 5 If you are operating a MassTech archive in **Content Change mode**:
  - a Click the browse button for the **Content Changed Workflow** field. The **Select 'Content Changed' Workflow...** dialog appears.
  - b Select the required workflow for moving media and assets to the iTX store. This workflow should register an asset but not transfer the file. For example, DefaultContentChanged\_RegisterOnly.
- 6 If you are operating a MassTech archive in Search Media mode:
  - a Click the browse button for the Cache Content Workflow field. The Select 'Cache Media' Workflow... dialog appears.
  - b Select the required workflow for moving media and assets to the iTX store. For example, DefaultCacheMedia.
- 7 If you want the endpoint to manage asset deletions, click the browse button for **Content Deleted Workflow** and select the required workflow.
- 8 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 9 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 10 Click the browse button for **Asset Template Name**. The **Select Asset Template** dialog appears.
- 11 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 12 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 13 If required, check **Allow Media Deletes**, then Specify the **Maximum Concurrent Delete Jobs** you want this endpoint to process.

Setting	Description
Manager IP address	The IP address of MassTech.
Username/Password	This information is usually supplied by MassTech.
	Note: Only one connection at a time can be made using a single account, so the endpoint may not be able to connect if something else is already using it.
MassTech ID of Store for iTX Media	This is the Server ID configured in the MassTech for the iTX media server from which media is archived and to which media is restored. This has to be configured by MassTech.
Allow Media Deletes	This option should be enabled if you wish to be able to delete any media assets from MassTech.
Timeout (minutes)	This defaults to 60. If a job has not progressed at all in this time frame it will be cancelled.
Allow Overwriting Archive	Leave this option disabled for normal operations.
Monitor MassTech for Changes	Leave this option disabled for normal operations.

14 In the MassTech Archive Configuration section, complete the following fields:

- 15 Click Save then Close.
- 16 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 17 Finalize the Delivery Manager setup:
  - To use a MassTech endpoint in Search Media mode, you must also complete the steps described in Additional Setup for Search Media mode, on page 65.
  - To use a MassTech endpoint in manual mode, you must also complete the steps described in Additional Setup for Manual/Export Mode, on page 67.

# **Adding a PathFire Endpoint**

PathFire endpoints only operate in Search Media Mode.

## **Prerequisites for PathFire Endpoints**

If you are running Windows Server 2008 R2 or Windows Server 2012 you will also need to install Windows Message Queuing in order for the PathFire Service to run correctly.

#### To install Message Queuing on Windows Server 2008 R2 and Windows Server 2012:

- 1 From Windows, click Start > Programs > Administrative Tools > Server Manager. The Server Manager application opens.
- 2 Click Add Features.

- 3 Expand **MSMQ** > **MSMQ Services**, and then check the checkboxes for the Message Queuing features that you want to install.
- 4 Click Next, then click Install.
- 5 If you are prompted to restart the computer, click **OK** to complete the installation.

## **Configuring a PathFire Endpoint**

#### To add an PathFire endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select PathFireDriver and click OK.
- 4 In the **Endpoint Name** field, enter the name to be used as a reference in the iTX database. For example, "PathFire".
- 5 Click the browse button for the **Cache Content Workflow** field. The **Select 'Cache Media' Workflow...** dialog appears.
- 6 Select the required workflow for performing Content Change actions. For example, DefaultCacheMedia.
- 7 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 8 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 9 Click the browse button for Asset Template Name. The Select Asset Template dialog appears.
- 10 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
  - SettingDescriptionsMaximum Concurrent JobsEnter the maximum number of jobs you want this<br/>endpoint to process simultaneously. The default is 5.Use PathFore Format SheetCheck this checkbox to use the format sheet included<br/>with PathFire content.IP AddressEnter the IP Address of the PathFire source server.Media pathEnter the UNC path of the shared delivery location on<br/>your NAS as defined in PathFire's configuration.
- 11 Complete the remaining fields, as described below:

Setting	Descriptions
HD Location	Enter the HD location alias defined in PathFire that represents the Media Path above.
	Note: This field should be used in conjunction with an asset template for HD media.
SD Location	Enter the SD location alias defined in PathFire that represents the Media Path above.
	Note: This field should be used in conjunction with an asset template for SD media.
PathFire Timeout (minutes)	Enter the duration in minutes for the PathFire server's time out. The default is 60 minutes.

- 12 Click Save then Close.
- 13 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 14 To use a PathFire endpoint in Search Media mode, you must also complete the steps described in Additional Setup for Search Media mode, on page 65 and also add the PathFire source to Missing Materials Manager.

# **Adding Ardome Endpoints**

#### To add an Ardome endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select Ardome and click OK.
- 4 In the Endpoint Name field, enter the name to be used as a reference in the iTX database. For example, "Ardome Archive".
- 5 Click the browse button for the **Cache Content Workflow** field. The **Select 'Cache Media' Workflow...** dialog appears.
- 6 Select the required workflow for performing Content Change actions. For example DefaultCacheMedia.
- 7 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

8 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.

- 9 Click the browse button for **Asset Template Name**. The **Select Asset Template** dialog appears.
- 10 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 11 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 12 In the Ardome Configuration section, complete the following fields:

Setting	Description
IP Address	Enter the IP address of the Ardome server
User Name	Enter the user name, as configured in the Ardome system and provided by a system administrator
Password	Enter the password as configured in the Ardome system and provided by a system administrator
Transfer Service	Enter the name of the transfer service as configured on the Ardome by the Ardome system administrator. The Ardome transfer Service is where you configure the iTX store location where you wish the de-archived media to be transferred to.

- 13 Click Save then Close.
- 14 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 15 To use an Ardome endpoint in Search Media mode, you must also complete the steps described in Additional Setup for Search Media mode, on page 65.

# **Adding FlashNet Endpoints**

## **Prerequisites for FlashNet Endpoints in Manual Mode**

In order to use a FlashNet Archive with Delivery Manager, the following prerequisites must be met:

- The FlashNet Archive must be running version 6.4.13.003.
- The FlashNet services must be logged on as a user with read/write access to the ITX NAS.

## **Configuring a FlashNet Endpoint**

#### To add a FlashNet endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select FlashNet and click OK.

- 4 In the Endpoint Name field, enter the name to be used as a reference in the iTX database. For example, "FlashNet Archive".
- 5 Click the browse button for the **Cache Content Workflow** field. The **Select 'Cache Media' Workflow...** dialog appears.
- 6 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMedia.
- 7 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 8 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 9 Click the browse button for **Asset Template Name**. The **Select Asset Template** dialog appears.
- 10 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 11 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 12 If required, check Allow Media Deletes, then Specify the Maximum Concurrent Delete Jobs you want this endpoint to process.
- 13 In the IP address field, enter the IP address of the FlashNet Archive machine.
- 14 In the Port field enter 8199.
- 15 In the **Default Volume Group** field enter the default storage group on the FlashNet Archive where the media is stored.

#### **IMPORTANT**

If a storage group exists on the FlashNet Archive with a name that matches the content type of the asset being archived, media will be archived to the this group instead of the default.

- 16 Check the following check boxes as required:
  - Allow Overwrite
  - Verify Archived Content
  - Use FTP Accessor
- 17 If restoring files that have no file extension from an external archive, the extension entered in **Default Extension** will be added to each file name when they are transferred into iTX.
- 18 Click Save then Close.
- 19 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 20 To use a FlashNet endpoint in Manual Mode, you must also complete the steps described in Additional Setup for Manual/Export Mode, on page 67.

# **Adding Core Endpoints**

This chapter is for customers who are in the process of migrating from either an iTX 1.4 or a Colossus system (which are sometimes referred to as Core systems) to an iTX 2.x system. It can also be used by customers who are running a Core system and an iTX 2.x system in parallel.

#### Summary

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## **About the Core Endpoint**

The Core endpoint facilitates the movement of media and asset records from a Colossus/iTX 1.4 system.

Because the iTX 2.x and Colossus/iTX 1.4 databases differ in structure, the Core endpoint effectively acts as a translator between the two systems. It does not in itself handle the transfer of any media or asset data. Transfers are passed to one of the other endpoints.

For example, if a schedule added to a channel in the new 2.x system requires a piece of media, its metadata (duration in/out points etc.) from the Colossus/iTX 1.4 system are imported directly by the Core endpoint while the retrieval of the actual media is passed to a separate endpoint (e.g. a CIFS or FTP endpoint, configured to point at the Colossus/iTX 1.4 system's relevant storage location).

Just like the other endpoints, the Core endpoint can operate in either Content Change mode or Search Media mode. The endpoint connects to a Colossus/iTX 1.4 Database and creates or modifies asset records in iTX 2.x when either:

- Assets are created or modified in the Colossus/iTX 1.4 system.
- Assets are requested by iTX as they are required in a future schedule.

When a Core endpoint is used in conjunction with one of the other endpoints, media can be transferred from the Colossus/1.4 System to the iTX 2.x system. This allows users to do the following:

- Port all their of media and asset data over to a new 2.x system in builk
- Transfer media as and when files are needed
- · Have the media co-exist as long as you wish.

Note: If you change metadata or notes in a Core system AFTER you have imported an asset into iTX 2.x, you have to make another change to the asset in the Colossus/iTX 1.4 database in order for the 2.x record to be updated. i.e. a file modify action must be carried out- before the changes are sent from the Core system to iTX 2.x.

## **Core Endpoint Asset Deletion**

The Delivery Manager Core endpoint provides automatic synchronization between an existing Colossus/iTX 1.4 system and an iTX 2.x system. It is specifically designed for systems that are running in parallel, sharing common archives and media stores (as opposed to systems that are being migrated).

The Core endpoint uses a specific workflow to automatically delete a common asset from iTX 2.x if it is deleted from the Colossus/iTX 1.4 database, so that the two databases remain synchronized. This workflow can be selected during the configuration of a Core endpoint. See step 7 in Generic Steps for Adding a Core Endpoint, on page 42.

Note: In Colossus/iTX 1.4 systems, this feature is currently only fully supported in conjunction with Omneon video servers and DIVArchive systems. For more information, contact your Grass Valley customer support technical account manager.

## **Preparing the Database for Core Endpoints**

In order for a Core endpoint to communicate with either a Colossus or a iTX 1.4 system, a special SQL server script must be run against their databases. This is done by running one of two batch files, depending on the system. When Delivery Manager is installed, these batch files (along with the SQL scripts they run) are installed here:

C:\Program Files\iTX 2.0\Services\Delivery Manager Service\Drivers\Core DB Installer

#### The batch files are:

- InstallCoreDbObjects.bat for Colossus systems
- InstallITX1DbObjects.bat for iTX 1.4 iTX systems.

#### There are five parameters you need to set:

[sqlserver]	Enter the name of the SQL server running the Colossus/iTX 1.4 database you want to install to
[coredatabasename]	Enter the name of the Colossus/iTX 1.4 database on that server
[installDeleteTrigger]	Set to true or false.
[sqladminuser]	Enter the SQL admin username. Not required if you are using a trusted connection.
[sq]password]	Enter the SQL admin usernames password. Not required if you are using a trusted connection.

When typing the required names/strings for these parameters, separate each one with a single space, for example: iTXDBSVR OMNIBUS false ITXADMIN letsgothere

Note: There are two accompanying README files that detail these parameters, one for each type of database.

#### IMPORTANT

These batch files are to be run from the machine on which Delivery Manager is installed. There is no need to copy them locally to the Colossus/iTX 1.4 database server and run them from there.

## **Running the batch files**

To run the batch files that will execute the required SQL scripts:

- 1 Click Start>Accessories>Command Prompt. An MS-DOS Command Prompt window appears.
- 2 Type the exact path and file name of the batch file you wish to execute, along with the required parameters. Each parameter you enter needs to be separated by a single space. e.g.:

```
C:\Program Files\iTX 2.0\Services\Delivery Manager
Service\Drivers\Core DB Installer\InstallCoreDbObjects.bat [sqlserver]
[coredatabasename] [sqladminuser] [sqlpassword]
```

- 3 Press Enter. The batch file will run.
- 4 When all of the table objects have been added, the batch file will return the message Installation complete.



5 Close the Command Prompt window.

Once the batch file has completed, you should verify the Core database has updated correctly. See Verifying an iTX 1.4 or Core Database Update on page 93.

# **Generic Steps for Adding a Core Endpoint**

#### To add a Core endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select CoreDriver and click OK.
- 4 In the **Endpoint Name** field, enter the name to be used as a reference in the iTX database. For example, "Core".
- 5 If you are operating a Core endpoint in **Content Change mode**:
  - a Click the browse button for the **Content Changed Workflow** field. The **Select 'Content Changed' Workflow...** dialog appears.
  - b Select the required workflow for moving media and assets to the iTX store. For example DefaultContentChangedCore\_RegisterOnly.
- 6 If you are operating a Core endpoint in Search Media mode:
  - a Click the browse button for the Cache Content Workflow field. The Select 'Cache Media' Workflow... dialog appears.
  - b Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMediaCore.
- 7 If you want the endpoint to manage asset deletions, click the browse button for Content Deleted Workflow and select the required workflow. For example DefaultCoreDeleteiTXAsset.

8 The Post Media Import Workflow field will be automatically populated with DefaultPostMediaImport.

Note: If you have not got the FPP Transcode Service installed, you will need to delete this entry.

- 9 If you are using a **Post Media Import Workflow**, you can also generate low resolution versions of clips as they are imported by checking the **Generate Proxy** checkbox.
- 10 Click the browse button for **Asset Template Name**. The **Select Asset Template** dialog appears.
- 11 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 12 Specify the Maximum Concurrent Jobs you want this endpoint to process.
- 13 If required, check Allow Media Deletes, then Specify the Maximum Concurrent Delete Jobs you want this endpoint to process.
  - Description Setting Core Server Name The Windows network name of the Colossus/iTX 1.4 database server. The windows network name of the Colossus/iTX 1.4 Core Backup Server Name database mirror server. (If no mirror or back up database server exists leave this option blank). Core Database Name The instance name of the database in the Colossus/iTX 1.4 System (usually Omnibus). DB User Name Database credentials for connecting to the Colossus/iTX DB User Password 1.4 database. These are detailed in the iTX System Administration Guide. Trusted Authentication Listen for Changes Select this option if you wish your 2.x iTX system to be notified of any changes to existing asset records or any new records added to the system. The Core endpoint feeds back any asset modifications directly to the 2.x database. Include Business If the iTX 1.4 system uses metadata logging that needs to Metadata: be imported, check this option. This is not applicable to a Colossus system. Note: This requires the Core schemas to be migrated first. See "Registering Business Metadata from a Colossus systems" for more information.
- 14 In the Core Configuration section, complete the following as required:

Setting	Description
Locations to Keep:	This MUST be checked. Locations within the Core / iTX 1.4 system where the ITX 2.x system can source the media from.
	For example, if the Colossus/iTX 1.4 system has a DIVArchive, and ITX can source from DIVA then include the location name of the DIVA store in a comma separated list. If you are sourcing media from an iTX 1.4 system, then this dialog must ONLY contain "iTX-EXTERNAL".
Core Queue Name	This defaults to DMCoreQueue.

- 15 Click Save then Close.
- 16 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 17 To use a DIVA endpoint in Search Media mode, you must also complete the steps described in Additional Setup for Search Media mode, on page 65.

# **Additional Configurations for Colossus Systems**

## **Importing Business Metadata from a Colossus system**

Colossus-based systems support detailed Business Metadata associated with Assets. So that Delivery Manager can import this metadata when it is retrieving media, the metadata schema in the Colossus database must be imported into your iTX 2.x Opus Service.

This is done using the OPUS Metadata Tool, which can be installed from the iTX Suite Installer. For more information on installing this tool see the *iTX System Administration Guide*.

#### To import metadata types with the OPUS Metadata Import Tool:

1 Click Start > All Programs > iTX 2.0 > Metadata Tool

or browse to the location of the tool directly and double click it to run:

C:\Program Files\iTX 2.0\Applications\Metadata Tool\Omnibus.OPUS.MetadataTool.exe

- 2 Once the tool has started, select the **Core Import** tab.
- 3 Click Config. The Database Credentials dialog appears.
- 4 Enter the administrative details required to connect to your Colossus/iTX 1.4 database:

re Database <b>por</b> ore Metadata Types	KEQAT058		Config	Load Types	Import
	Database Cred	entials			
	Server Name:	SVRQA1068	 Database Name:	qa-omnibus	
	🔲 Login as c	urrent user (trusted)		-	_
	User Name:	sa	Password:	1	
				OK Cance	
Select All Dese	lect All		1	Overwrite Existing Typ	es/Schemas?
					0%/

If you do not have the database connection details, contact your system administrator.

- 5 Click **OK**. The tool will connect to the Colossus database and the status light (top left) will turn from red to green.
- 6 Click **Load Types**. The window will then be populated with the tree structure of the Colossus database's schema structure.
- 7 Select the types (and sub types) you wish to import using the checkboxes in the tree.



Alternatively, if you wish to import all types, click Select All.

(Deselect All allows you start again.)

8 Check the **Overwrite Existing Types/Schema** if you have previously carried out a schema import you no longer require.

- 9 Click Import. The bar at the bottom will show the progress of the import.
- 10 Once the import completes, you can close the application.

You can now check the success of the import by using the Smart Client Logging windows. The new schema and types will now appear in all drop down dialog boxes.

## **Registering new media from a Colossus systems**

#### To register new media from a Colossus system:

- 1 From **Delivery Manager Config**, open an existing configuration profile or create a new one and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 13 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 In the Core Configuration section, entered the details for a Colossus system.
- 3 In the **Locations to Keep** field, enter a list of locations from the Colossus system (E.g. DIVA).

Any asset added to the specified Colossus system's specified location will now be added to the iTX system.

## **Registering Business Metadata from a Colossus systems**

#### To register Business Metadata from a Colossus system

- 1 Using Omnibus.OPUS.MetadataSchemaImport.exe copy metadata types from the Colossus database into ITX 2.x.
- 2 In **Delivery Manager Config**, create a new Core endpoint, as described in Generic Steps for Adding a Core Endpoint, on page 42.
- 3 In the Core Configuration section, check Include Business Metadata.
- 4 Continue with the rest of the Core endpoint configuration. See Importing Media via the CIFS endpoint from an ITX 1.4 system below.

## Import Media via the CIFS endpoint from a Colossus system

#### To import Media via the CIFS endpoint from a Colossus system:

- 1 From **Delivery Manager Config**, open an existing configuration profile or create a new one and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 4 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 Click the browse button for the Cache Content Workflow field. The Select 'Cache Media' Workflow... dialog appears.
- 3 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMediaCore.
- 4 In the **Core Configuration** section, entered the details for a location that can be accessed by CIFS. (e.g. "Mediagrid").
- 5 Click **Add New Endpoint** to create an additional endpoint within the same configuration profile.
- 6 For the Endpoint Driver, select CIFS.
- 7 For the Media Path field, select a file store where the Colossus system places the media.

The CIFS endpoint store name must match the location name used by the Colossus system. For example, in a Colossus system there might be a location called MEDIAGRID (an Omneon server system). This puts media in a folder:

\\xxx.xxx.xxx\omneon\clip.dir.

8 Configure the Missing Materials Manager to search the Core endpoint. See Configuring Missing Materials Manager for the Core Endpoint on page 66 for more information.

The Core endpoint will now look at the Core database and has a **Location to Keep** called MEDIAGRID. The CIFS endpoint is now configured with a media path of:

\\xxx.xxx.xxx.omneon\clip.dir and the name: MEDIAGRID.

# **Additional Configurations for iTX 1.4 Systems**

## Registering new media from an iTX 1.4 system

#### To register new media from ITX 1.4

- 1 From **Delivery Manager Config**, open an existing or create a new configuration profile and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 13 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 In the Core Configuration section, entered the details for a TX 1.4 system.
- 3 In the Locations to Keep field, enter ITX-EXTERNAL.

Any asset added to the specified iTX 1.4 system's specified location will now be added to the iTX system.

### Importing Media via the CIFS endpoint from an ITX 1.4 system

#### To import Media via the CIFS endpoint from an ITX 1.4 system:

- 1 From **Delivery Manager Config**, open an existing configuration profile or create a new one and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 4 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 Click the browse button for the **Cache Content Workflow** field. The **Select 'Cache Media' Workflow...** dialog appears.
- 3 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMediaCore.
- 4 In the **Core Configuration** section, enter the details of the ITX 1.4 database with the name of the ITX store as ITX-EXTERNAL.
- 5 Click **Add New Endpoint** to create an additional endpoint within the same configuration profile.
- 6 For the Endpoint Driver, select CIFS.
- 7 For the Media Path field, select the media folder on the ITX 1.4 System.

The CIFS endpoint store name must match the ITX 1.4 store name. For example, in ITX 1.4 the store name is always ITX. ITX 1.4 puts media in a folder:

\\network\_server\_name\Media. The Core endpoint is configured to look at the iTX
1.4 database and has a Location to Keep called ITX-EXTERNAL. The CIFS endpoint is

configured with a media path \\network\_server\_name\Media and a name, e.g.
ISILON.

8 Configure the Missing Materials Manager to search the Core endpoint. See Configuring Missing Materials Manager for the Core Endpoint on page 66 for more information.

# Additional Configurations for Both Colossus and iTX 1.4 Systems

## Importing an asset with media Missing Materials Manager

#### To import an asset with media in Search Media mode

- 1 From **Delivery Manager Config**, open an existing configuration profile or create a new one and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 4 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 Click the browse button for the **Cache Content Workflow** field. The **Select 'Cache Media' Workflow...** dialog appears.
- 3 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMediaCore.
- 4 Configure Missing Materials Manager to search the relevant Colossus/iTX 1.4 endpoint. See Configuring Missing Materials Manager for the Core Endpoint on page 66 for more information.

## Import Media via the DIVArchive endpoint

To import Media via the DIVArchive endpoint from a DIVA location on a Colossus/iTX 1.4 system:

- 1 From **Delivery Manager Config**, open an existing configuration profile or create a new one and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 4 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 Click the browse button for the Cache Content Workflow field. The Select 'Cache Media' Workflow... dialog appears.
- 3 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMediaCore.
- 4 In the **Core Configuration** section, entered the details of the DIVA location from the Colossus/iTX 1.4 system.
- 5 Click **Add New Endpoint** to create an additional endpoint within the same configuration profile.
- 6 For the Endpoint Driver, select DivaDriver.
- 7 In the **Diva Archive Configuration** section, enter the details of a DIVA endpoint.

The DIVA endpoint store name must match the location name used by the Colossus/iTX 1.4 system. For example, in the Colossus/iTX 1.4 system there is a location called DIVA. The Core endpoint is configured to point at the Colossus/iTX 1.4 database also has a location called DIVA.

8 Configure the Missing Materials Manager to search the Core endpoint. See Configuring Missing Materials Manager for the Core Endpoint on page 66 for more information.

## Import media via the FTP endpoint

# To import Media via the FTP endpoint from an FTP based storage on a Colossus/iTX 1.4 system

- 1 From **Delivery Manager Config**, open an existing configuration profile or create a new one and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 4 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 Click the browse button for the Cache Content Workflow field. The Select 'Cache Media' Workflow... dialog appears.
- 3 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMediaCore.
- 4 In the **Core Configuration** section, entered the details of the location that can be accessed via FTP.
- 5 Click **Add New Endpoint** to create an additional endpoint within the same configuration profile.
- 6 For the Endpoint Driver, select FTPDriver.
- 7 In the **FTP Server Configuration** section, enter the details of a file store where the Colossus/iTX 1.4 system places their media.

The FTP endpoint store name must match the location name used by the Colossus/iTX 1.4 system. For example, in the Colossus/iTX 1.4 system there is a location called FTP. Media is deposited in an FTP folder on a server named FTP\_MEDIA. The Core endpoint is configured to look at a Colossus/iTX 1.4 database and has a location called "FTP". The FTP endpoint is configured to access the FTP server FTP\_MEDIA.

8 Configure the Missing Materials Manager to search the Core endpoint. See Configuring Missing Materials Manager for the Core Endpoint on page 66 for more information.

# **Configuring Omneon Video Servers and FTP Endpoints**

Note: This is a special type of FTP endpoint. The filenames stored in the Colossus/iTX 1.4 database do not match the names of the files on the Omneon server.

#### To import media via the FTP endpoint from an Omneon video server

- 1 From **Delivery Manager Config**, open an existing configuration profile or create a new one and add a new endpoint tab using the **CoreDriver**, as described in step 1 to step 4 of Generic Steps for Adding a Core Endpoint, on page 42.
- 2 Click the browse button for the Cache Content Workflow field. The Select 'Cache Media' Workflow... dialog appears.
- 3 Select the required workflow for moving media and assets to the iTX store. For example DefaultCacheMediaCore.
- 4 In the **Core Configuration** section, enter the details of the Omneon location.
- 5 Click **Add New Endpoint** to create an additional endpoint within the same configuration profile.
- 6 For the Endpoint Driver, select FTPDriver.

- 7 In the FTP Server Configuration section, enter the details of the Omneon file store. The FTP endpoint store name must match the Omneon location name used by the Colossus/iTX 1.4 system. For example, in the Colossus/iTX 1.4 system there is a location called OMNEON. Media is deposited in an FTP folder on a video server called omneon-h0 with an IP. address of 1.62.101.103.
- 8 Configure the Missing Materials Manager to search the Core endpoint. See Configuring Missing Materials Manager for the Core Endpoint on page 66 for more information.

Using the example in step 7, the Core endpoint is configured to point at the Colossus/iTX 1.4 database and has a location called OMNEON. The FTP endpoint is configured to access the FTP server on 1.62.101.103.

# Adding iTXV1 Endpoints

This chapter is for customers who want to migrate from an iTX 1.4 to an iTX 2.x system without migrating their media to a separate media store. The iTXV1 endpoint achieves this by migrating the asset metadata from the old system to the new system, using a workflow activity called Register Media in Place or simply "register in place".

#### Summary

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# About the ITXV1 Endpoint and Register in Place

Because the iTX 2.x and iTX 1.4 databases differ in structure, it is not possible for customers on an old system to simply upgrade to iTX 2.x. While the Core endpoint acts as a translator between the two systems, it does not handle media or asset metadata transfers; a separate endpoint, such as Diva, needs to be configured to manage the media transfers.

For customers with an iTX 1.4 system, the iTXV1Driver endpoint driver can be used instead. This endpoint performs "register in place" actions between 1.4 and 2.x databases as video and subtitle assets are added to, updated on or deleted from the iTX 1.4 system. The media itself remains on a shared media store, so it does not need to be transferred, as each database has its own metadata record.

In iTX 1.4, online media files usable in iTX are always on a location (store) named ITX with a type of Video Disk Server; in iTX 2.x the location can be named whatever is appropriate (e.g. Isilon) but the location type must be iTX. Therefore, when the endpoint is operating in Register in Place mode, the incoming asset location is renamed to its corresponding location in iTX 2.4, while its location type is changed to iTX.

The import/update of assets from the 1.4 system into 2.x is done via a specific workflow and workflow activity. After an asset has been registered, the workflow checks if an iTX location is required. If the asset has an iTX location, the Register Media in Place activity analyzes and updates the asset, as required.

Once the endpoint is active, the clips in the iTX 1.4 database will be "touched", causing them to be added to the change queue in manageable batches, as not to impact system performance. This process is repeated until all of the asset metadata has been touched.

Figure 7-1 on page 52 shows the flow of metadata between the iTX 1.4 and iTX 2.x using register in place workflows during the migration period.



Fig. 7-1: iTX 1.4 to iTX 2.x migration using register in place.

# **iTXV1Driver** Restrictions

Before using the iTXV1 endpoint, consider the following restrictions:

- The iTXV1Driver supports migration from iTX 1.4 to iTX 2.4.10 SP7 only.
- Only metadata for video clips, subtitles and (video) daughter clips is transferred.
- The iTXV1Driver does not support metadata transfers from Colossus databases. Customers looking to migrate a Colossus database to iTX 2.x must use the Core endpoint. See Adding Core Endpoints on page 39.
- If metadata, including in and out points, is edited in 2.x the changes will not be applied in the 1.4 system. Any subsequent changes in the 1.4 system will then overwrite changes in the 2.x system.
- If media is deleted from the 2.x system, the asset in the 1.4 system will become orphaned and unusable. Therefore, any assets that need to be deleted from the shared media store must be deleted on the 1.4 system, not the 2.x system.
- If a video asset that needs to be deleted in 1.4 has daughter clips, the corresponding co-reference clips must also be deleted from 2.x.

# Preparing the iTX 1.4 Database

So that an iTXV1 endpoint can communicate with a iTX 1.4 system, a special SQL server script must be run against its database. This is done by running a batch file from the iTX 2.x framework server called InstallITX1Db0bjects.bat. When Delivery Manager is installed, the batch file and the SQL script it runs are installed here:

C:\Program Files\iTX 2.0\Services\Delivery Manager Service\Drivers\Core DB Installer

[sqlserver]	Enter the name of the SQL server running the iTX 1.4 database you want to install to
[coredatabasename]	Enter the name of the iTX 1.4 database on that server
[sqladminuser]	Enter the SQL admin username.
[sqlpassword]	Enter the SQL admin usernames password.

When typing the required names/strings for these parameters, separate each one with a single space, for example: InstalliTX1DbObjects.bat [sqlserver] [coredatabasename] [sqladminuser] [sqlpassword]

#### Note:

- The sqladminuser and sqlpassword a parameters can be omitted, in which case the credentials of the currently logged in user will be used instead.
- There is a text file called README (iTX 1x Db Install).txt in the same folder as the batch file and SQL script that details these parameters.

#### IMPORTANT

The batch file should be run from the machine on which Delivery Manager is installed. There is no need to copy it locally to the iTX 1.4 database server.

## **Running the batch file**

#### To run the batch file that will execute the required SQL scripts:

1 Click Start>Accessories>Command Prompt.

An MS-DOS Command Prompt window appears.

2 Change the Core DB Installer directory.

**Type** CD C:\Program Files\iTX 2.0\Services\Delivery Manager Service\Drivers\Core DB Installer

**3** Type InstalliTX1Db0bjects.bat along with the required parameters. Each parameter you enter needs to be separated by a single space. e.g.:

InstalliTX1DbObjects.bat iTXDBSVR OMNIBUS ITXADMIN letsgothere

4 Press Enter. The batch file will run.

5 When all of the table objects have been added, the batch file will return the message Installation complete.



6 Close the Command Prompt window.

Once the batch file has completed, you should verify the iTX 1.4 database has updated correctly. See Verifying an iTX 1.4 or Core Database Update on page 93.

# Adding an iTXV1 Endpoint

#### To add an iTX V1 endpoint:

- 1 Open an existing configuration profile or create a new one, then add a new endpoint tab, as described in step 1 and step 2 of Basic Steps for Adding an Endpoint, on page 15.
- 2 Click the **Select** button next to the **Endpoint Driver** field. The **Select Delivery Manager Driver** dialog appears.
- 3 Select ITXV1Driver and click OK.
- 4 In the **Endpoint Name** field, enter the name to be used as a reference in the iTX database. For example, "ITXV1RIP".
- 5 Click the browse button for the **Content Changed Workflow** field. The **Select 'Content Changed' Workflow...** dialog appears.
- 6 Select the required workflow for performing the register in place action. For example DefaultContentChangedITX\_RegisterInPlace.
- 7 Click the browse button for the **Content Deleted Workflow** field. The **Select 'Content Changed' Workflow...** dialog appears.
- 8 Select the required workflow for deleting media on the iTX 2.x database when it has been deleted on the 1.4 database. for example: DefaultCoreDeleteItxAsset.
- 9 Click the browse button for Asset Template Name. The Select Asset Template dialog appears.
- 10 Select the required template, so that all of the clips are registered with the same characteristics. Click **OK**.
- 11 Specify the Maximum Concurrent Jobs you want this endpoint to process.

Setting	Description	
Database Server Name	The Windows network name of the iTX 1.4 database server.	
Backup dB Server Name	The windows network name of the iTX 1.4 database mirror server. (If no mirror or back up database server exists leave this option blank).	
Database Name	The instance name of the database in the iTX 1.4 System (usually Omnibus).	
Trusted Authentication		
DB User Name	Database credentials for connecting to the ITX 1.4 database. These are detailed in the <i>iTX System Administration Guide</i> .	
DB User Password		
Register In Place	Check this checkbox to enable the register in place feature.	
Store	To select the media store that is configured to point at the iTX 1.x Media folder:	
	1 Click Select. The Select iTX Media Store dialog appears.	
	2 From the <b>Media Store</b> drop-down list, select the store you wish to use.	
	3 When selecting a media store, the <b>Media Store URI</b> field will be automatically populated.	
Additional Locations to Keep	This field only needs to be populated in additional locations need to be kept, for example Diva.	
Database Queue Name	This defaults to DMCoreQueue.	
Manual Sync control	These buttons are only exposed in the Delivery Manager Service window. See Synchronizing the iTX 1.4 and iTX 2.x Databases on page 56.	

12 In the **iTX Driver Configuration** section, complete the following fields:

4 Click Save then Close.

- 5 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information.
- 6 Once the Delivery Manager service has restarted, you can initialize the synchronization. See Synchronizing the iTX 1.4 and iTX 2.x Databases on page 56.

# Synchronizing the iTX 1.4 and iTX 2.x Databases

Once the iTXV1 endpoint is active, the iTX 1.4 and 2.x databases need to be synchronized. This means the clips in the iTX 1.4 database will be "touched", causing them to be added to the change queue in manageable batches. This process can also be controlled manually from within the Delivery Manager service window.

#### To manually synchronized the iTX 1.4 and iTX 2.x databases:

- 1 On the iTX framework server where Delivery Manager is running, maximize the Delivery Manager service window.
- 2 On the Service Details tab, select Configuration tab for the iTXV1 endpoint.
- 3 In the **iTX 1.4 Configuration** section, scroll down to reveal the **Manual Sync control** buttons.

	Select	
p:		
DmCoreQueue		
Total Assets Requested::	0	
Assets Transferred:	0	
	p: DmCoreQueue Total Assets Requested:: Assets Transferred:	p: Select DmCoreQueue Total Assets Requested:: 0 Assets Transferred: 0

Use the buttons to control the manual synchronization:

- Click Initialize Sync to check for assets that need to be transferred.
- Click Sync All Clips to add all clips to the change queue (in manageable batches)
- Click Stop Sync to end the manual synchronization process.
- 4 Once the initial synchronization has been performed, the iTXV1 endpoint will continue to monitor the iTX 1.4 databases for new, updated and deleted video clips and subtitles.

# **Configuring the Server Controller**

This chapter explains how to configure the Server Controller to run named instances of the Delivery Manager service and also how to restart the Server Controller.

### Summary

Configuring Server Controller to run a named instance of Delivery Manager	57
Adding a named instance to Server Controller	58
Restarting an iTX Service	59

# Configuring Server Controller to run a named instance of Delivery Manager

To run a named instance of Delivery Manager on a single server:

- 1 From Windows, click **Start > All Programs > iTX2.0 > Server Controller Config**. The Server Controller Configuration dialog appears.
- 2 Go to the **Services** tab.
- 3 Select the **Delivery Manager** service then click **Edit**. The **Service Details** dialog appears.
- 4 Make sure the **Enabled** is checked. This will run the instance of the service when Server Controller is started.
- 5 Make sure the **Execute as Application** is check. This enables the File Name field, which will be automatically populated with the path and executable for the Delivery Manager service.

In the typical installation the path and executable will be C:\Program Files (x86)\iTX 2.0\Services\Delivery Manager Service\Omnibus.OPUS.DeliveryManagerService.exe.

- 6 In the **Arguments** field, type -name followed by a name for this instance of the Delivery Manager service. This should match the name of the configuration profile (as specified in the Delivery Manager Config) you want this instance to use. For example, enter -name ARCHIVES to run the "Archives" configuration profile.
- 7 In the Arguments field, after the -name argument, type -profile followed by the name of the logging profile this instance will use as its tag in the Delivery Manager log (as detailed in the iTX System Administration Guide). For example, -profile ARCHIVES.
- 8 Make sure **Auto Restart** is checked. This ensure Server Controller will automatically restart the Delivery Manager service in the event of a failure.

The image below shows an example of a completed Service Details dialog:

Service Details					
Service Details					
Name:	Delivery Man	ager CIFS	✓ Enabled		
Execute as Apple 1	pplication	Execute as NT Service	Execute as Omnibus Service		
File Name:	2.0\Services	Delivery Manager Service \Omnibus.	OPUS.DeliveryManagerService.exe		
	01500	1 0.00001			
Arguments:	-name CIFSU	1-profile CIFSUT			
Auto Restar	on Information t		Run in own Process		
Process Group	к				
Isolation Group	x:		Service Dependencies		
Scheduling					
Schedule	Start Time:	End Ti	me:		
			OK Cancel		

# Adding a named instance to Server Controller

To run a named instance of Delivery Manager on a single server:

- 1 From Windows, click Start > All Programs > iTX2.0 > Server Controller Config.
- 2 Go to the Services tab, click Add. The Service Details dialog appears.
- 3 Make sure the **Enabled** is checked. This will run the instance of the service when Server Controller is started.
- 4 Make sure the **Execute as Application** is check. This enables the File Name field, which will be automatically populated with the path and executable for the Delivery Manager service.

In the typical installation the path and executable will be C:\Program Files
(x86)\iTX 2.0\Services\Delivery Manager
Service\Omnibus.OPUS.DeliveryManagerService.exe.

- 5 In the Arguments field, type -name followed by a name for this instance of the Delivery Manager service. This should match the name of the configuration profile (as specified in the Delivery Manager Config) you want this instance to use. For example, enter -name ARCHIVES to run the "Archives" configuration profile.
- 6 In the Arguments field, after the -name argument, type -profile followed by the name of the logging profile this instance will use as its tag in the Delivery Manager log (as detailed in the iTX System Administration Guide). For example, -profile ARCHIVES.
- 7 Make sure **Auto Restart** is checked. This ensure Server Controller will automatically restart the Delivery Manager service in the event of a failure.

8 The image below shows an example of a completed Service Details dialog:

Service Details		
Service Details		
Name: Deliv	very Manager CIFS	✓ Enabled
Execute as Application	ation	Execute as Omnibus Service
File Name:	Services\Delivery Manager Service\Omnib	ous.OPUS.DeliveryManagerService.exe
Arguments: -nam	ne CIFS01 -profile CIFS01	
Process Execution Inf	formation	
Auto Restart		Run in own Process
Process Group:		
Isolation Group:		Service Dependencies
Scheduling		
Schedule Star	t Time: End	I Time:
		OK Cancel

# **Restarting an iTX Service**

Whenever an addition or change is made to the configuration of an ITX service, such as Delivery Manager or Workflow, the service must be manually restarted from the Server Controller application on the service's server.

#### To restart an iTX service

1 On the server running the service, maximize the Server Controller application.

If Server Controller is not running, it can usually be found in Start> All Programs>iTX 2.0.

- 2 Select the **Controlled Services** tab. All of the services running on that server will be displayed.
- 3 Find the line entry for service to be restarted (e.g. Delivery Manager). Right click on the service name and select Restart Service.

X Server Controller						_ 🗆 >
Service Details Trace Logs Installa	ation Info Co	ntrolled Services Monit	tored Databases Scheduled Tasks			
Service Name	Service	Status	Uri	Failures	Last Failure	FileName
CORE	Yes	Disabled		0		C:\Program
CORE2	Yes	Disabled		0		C:\Program
Locator Service	No	Running	tcp://10.118.96.180:8999/Omnibus.LocatorServi	3	31/10/2013 16:32:00	C:\Program
System Service	No	Running	tcp://10.118.96.180:9013/Omnibus.System.1	0		C:\Program
Logging Service	No	Running	tcp://10.118.96.180:9003/0mnibus.LoggingServ	0		C:\Program
Time Service	No	Running	tcp://10.118.96.180:9007/TimeService	0		C:\Program
Updater	No	Running	tep://10.118.96.180:9006/SVR2561_UPDATER	0		C:\Program
File Copy Service	No	Running	tcp://10.118.96.180:9004/FileCopyService	0		C:\Program F
Missing Materials Manager	No	Running	tcp://10.118.96.180:9002/Missing Material	0		C:\Program F
Proxy Generation Service	No	Running	tcp://10.118.96.180:9005/0PUS.ProxyGeneration	3	30/10/2013 12:28:38	C:\Program
Silverlight Service Proxy	No	Running	tcp://10.118.96.180:9018/Silverlight Service Proxy	0		C:\Program
OPUS Service	No	Running	tcp://10.118.96.180:9000/0PUS2 Service	0		C:\Program
Routing Data Service	No	Running	tcp://10.118.96.180:9009/Routing Data Service	1	01/11/2013 09:47:39	C:\Program
AsRunService	No	Running	tcp://10.118.96.180:9010/As Run Logging Servi	0		C:\Program
Schedule Processing Service	No	Running	tcp://10.118.96.180:9012/0mnibus.0PUS.Work	0		C:\Program
Ingest Control Service	No	Running	tcp://10.118.96.180:9008/Ingest Control Service	0		C:\Program
Scheduled Booking Service	No	Running	tcp://10.118.96.180:9011/Ingest Manager - Boo	0		C:\Program F
Media Watch	No	Running	tcp://10.118.96.180:9014/Media Watcher	1	31/10/2013 10:37:56	C:\Program F
NVision NV9000 Router Service	No	Running	tcp://10.118.96.180:9015/NV9000 Router Contr	0		C:\Program F
Workflow Service	No	Stopped		0		C:\Program F
Delivery Manager		Bunning	tep://10.118.96.180:9001/DM INBOX	0		C:\Program F
	Resta	art Service				
	Stop	Service				
	Capt	ure Process Dump				
•						<u> </u>

If service is running, the user interface will close then restart. When the service restarts any changes you made will now be in affect.

# **Setting Up Delivery Manager Resilience**

Delivery Manager's two resilience models are determined by the number of instances of the Delivery Manager services are running, the number of framework servers the service is installed on and how the endpoints are configured for each instance.

This chapter explains the best practices for setting each resilience model.

#### Summary

How to Set Up a Load Balanced System	61
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## How to Set Up a Load Balanced System

To load balance your Delivery Manager system, you need to have all of your required endpoints shared between two or more instances of the Delivery Manager service, ideally running on separate framework servers.

#### To set up a load balanced system on multiple servers

- 1 Install Delivery Manager on two or more framework servers, as described in Installing the Delivery Manager service, on page 11.
- 2 Create new configuration profiles on each server, as described in Creating a New Configuration Profile, on page 15.
- 3 Add and configure your required endpoints.

For information on the properties that are common to most of the endpoints, see Generic Endpoint Configuration Settings, on page 18.

Specific instructions for each endpoint type can be found on the following pages:

- Adding a CIFS Endpoint, on page 21.
- Adding an FTP Endpoint, on page 24.
- Adding a Pitch Blue Endpoint, on page 26.
- Adding a DIVA Endpoint, on page 27.
- Adding MassTech Endpoints, on page 32.
- Adding a PathFire Endpoint, on page 34.
- Adding Ardome Endpoints, on page 36.
- Adding FlashNet Endpoints, on page 37.
- Adding Core Endpoints, on page 39.
- Adding iTXV1 Endpoints, on page 51

Make sure each server has different endpoints configured on them.

4 Configure each framework server to run the required instance, as described in Configuring Server Controller to run a named instance of Delivery Manager, on page 57.

# How to Set Up Endpoint Monitoring System

#### IMPORTANT

Endpoint monitoring requires two framework servers running identical instances and endpoint configurations. The endpoints must also be stored within named configuration profiles; endpoint monitoring will not function using the Default profile.

#### To set up an endpoint monitoring system:

- 1 Install Delivery Manager on two framework servers, as described in Installing the Delivery Manager service, on page 11.
- 2 Create a new, named configuration profile on the first server, as described in Creating a New Configuration Profile, on page 15.
- 3 Add and configure your required endpoints.

For information on the properties that are common to most of the endpoints, see Generic Endpoint Configuration Settings, on page 18.

Specific instructions for each endpoint type can be found on the following pages:

- Adding a CIFS Endpoint, on page 21.
- Adding an FTP Endpoint, on page 24.
- Adding a Pitch Blue Endpoint, on page 26.
- Adding a DIVA Endpoint, on page 27.
- Adding MassTech Endpoints, on page 32.
- Adding a PathFire Endpoint, on page 34.
- Adding Ardome Endpoints, on page 36.
- Adding FlashNet Endpoints, on page 37.
- Adding Core Endpoints, on page 39.
- Adding iTXV1 Endpoints, on page 51
- 4 Clone the configuration profile from the first server to the second server, as described in Cloning a configuration profile, on page 63.
- 5 Configure each framework server to run the **same instance name**, as described in Configuring Server Controller to run a named instance of Delivery Manager, on page 57.

## **Cloning a configuration profile**

#### IMPORTANT

The configuration profiles on each framework service must be identical in order for the endpoint monitoring to work correctly. Delivery Manager has no way of verifying that the configuration profile used by a named instances and its clone are identical. Therefore the safest way to clone a configuration profile is to copy the XML file from one server to the other.

#### Copying a configuration profile XML file

- 1 On the source framework server, open Windows Explorer and navigate to: %appdata%\iTX\OPUS\Delivery Manager.
- 2 In the Delivery Manager folder you will see a folder for each configuration profile you have created (e.g. Default, CIFS01, etc). Within each folder there is a Config folder containing a file called Config.xml. This contains the details about the endpoints configured in that profile.
- 3 Select the folder for the required configuration profile and copy it to the equivalent folder on the second framework server (either directly using the network path or via a memory stick.)
- 4 You now need to configure each framework server to run the same, named instance. For more information see Configuring Server Controller to run a named instance of Delivery Manager, on page 57.

# **Finalizing the Delivery Manager System**

Depending on the endpoints being monitored, the media store you have and the operational modes being used, Delivery Manager requires additional services to be installed on the iTX system and configured in specific ways.

This chapter explains the reasons for and the installation of each of these additional systems, followed by how to install the Delivery Manager service itself.

#### Summary

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Additional Setup for Manual/Export Mode	67
Optional Setup and Configuration	71

## Additional Setup for Search Media mode

If you have configured Delivery Manager with an endpoint in Search Media mode, the Missing Materials Manager needs to be installed on the system and configured with details of the endpoint and media store. If you are going to be using the Core endpoint in Search Media mode, an additional step is also required.

- Install the Missing Materials Manager service
- Configure the Missing Materials Manager
- Configuring Missing Materials Manager for the Core Endpoint

## **Install the Missing Materials Manager service**

The Missing Materials Manager is external to Delivery Manager, therefore must be installed on your iTX System separately.

For full details on installing and configuring Missing Materials Manager, please see the section entitled "Using Missing Materials Manager" in the *iTX System Administrator Guide*.

#### **Configure the Missing Materials Manager**

When operating in Search Media mode, once Delivery Manager has located the required items it uses Missing Materials Manager as a client for the media transfer jobs. In order to do this Missing Materials Manager needs to be configured to accept jobs from Delivery Manager.

#### To configure Missing Materials Manager to accept jobs from Delivery Manager:

1 In Windows, go to Start>All Programs>iTX 2.0 and click Server Controller. The Server Controller window appears.

- 2 Click on the **Controlled Services** tab, then double click on **Missing Materials Manager**. The **Missing Material** window appears.
- 3 Click on the **Engineering** tab. The Missing Material configuration interface appears.
- 4 From the Search tab, click Set Search Criteria.... The PinPoint Schedule Search dialog appears.
- 5 Specify the search criteria for the required media then click OK.

The **PinPoint** dialog will close and you will return to the **Missing Material Engineering** tab.

- 6 From the Search tab, click Activate Search Criteria.
- 7 Still on the **Search** tab, select the required channels from the **Available Channel** window and add them to the **Selected Channels** window using the >> button.
- 8 Click Activate Channel Selection.
- 9 From the **Restore** tab, use the **iTX Store** drop down list to select the store that you want to use as the destination for any files being restored or imported.
- 10 Still on the Restore tab, from the Delivery Manager Media Sources section, select the Core endpoints in the Available Sources window and add it to the Selected Sources window using the >> button.
- 11 Click **Save** and restart Missing Materials Manager. See Restarting an iTX Service on page 59 for more information.

## **Configuring Missing Materials Manager for the Core Endpoint**

If you are sourcing media and asset data from a Colossus/1.4 iTX system via the Core endpoint, there is no need to configure the media stores or archives associated with those systems within Missing Materials Manager. You only need configure Missing Materials Manager to source from the Core endpoint.

#### To configure Missing Materials Manager to source from the Core endpoint:

- 1 Open Missing Material Manager and select the **Engineering** tab, as described in step 1 to step 3 on page 66.
- 2 From the Restore tab, from the Delivery Manager Media Sources section, select the endpoints you wish the Missing Materials Manager to use as sources from in the Available Sources window and add them to the Selected Sources window using the >> button.
- 3 Click Save and restart Missing Materials Manager.

#### Disabling Media Watcher's Media Cache De-archive functionality

To prevent Missing Materials Manager from importing media direct from any archive without sourcing the associated metadata from the Core/iTX 1.4 database you must disable Media Watcher's Media Cache De-archiving functionality.

#### To disable Media Cache De-archive:

- 1 Within the Media Watcher application, go to the **Setup** tab.
- 2 Uncheck Media Cache De-archive.
## **Additional Setup for Manual/Export Mode**

If you have configured Delivery Manager with an endpoint in manual or Export mode, the following services and configurations are required.

- Install the iTX Workflow service
- Configure Delivery Manager Workflows, including:
  - Configuring the Manual Archive workflow
  - Configuring a Manual Restore workflow
  - Configuring the ShotList Export workflow

Note: If you are using a DIVArchive, additional steps are required in order to operate in Manual Mode. See Prerequisites for DIVA Endpoints in Manual Mode, on page 27 for more information.

### Install the iTX Workflow service

All manual operations use Workflows that are external to Delivery Manager, therefore iTX Workflow must be installed on your iTX System.

For full details on installing and configuring iTX Workflow, please see the section entitled "Using iTX Workflow" in the *iTX System Administrator Guide*.

### **Configure Delivery Manager Workflows**

Once Workflow has been installed you need to configure the default Delivery Manager workflows (from those added by MediaFlow Delivery Manager Processes). This is performed using the Workflow Configuration tool.

To access the Delivery Manager workflow configuration:

- On the computer that has the Workflow Service is installed go to Start > All Programs > iTX 2.0 > Workflow Service Config. The Workflow Configuration window appears.
- 2 Select the **Simple** tab.

tx Workflow Configuration			_ 🗆 ×
Media Rules Scheduled Event Triggere	J Simple	Complex   File Triggered   File Trigger (Multiple)   Database Qu	eue Triggered 🛛 Gl 💶 🕨
Simple Workflows	Details —		_
Cache Shotlist	Name	Export shotlist	I✓ Enabled
Manual Archive			System WF
Manual Partial Hestore Manual Restore			🗖 Killable
Post Media Import	Workflow Definition	C:\Program Files (x86)\iTX 2.0\Services\Workflow Service \MediaFlow\Export Shotlist.xaml	<u> </u>
			▼ D
	Creatable		▲
Add Remove			<b>T</b>
Asset Types			
AEProject			
FileServer			
Select all Clear all			Properties

Under the **Simple** tab the **Simple Workflows** pane lists the default Delivery Manager workflows. They are:

- Cache ShotList
- Export ShotList
- Manual Archive
- Manual Partial Restore (DIVA only)
- Manual Restore
- Post Media Import

The **Details** pane contains the following fields:

- Name: The default contents of this field match the name of the selected workflow. This name will be used as the label for the button that triggers the action in iTX Desktop and SmartClient.
- Enabled: When checked, the selected workflow will be active.
- System WF: Because these workflows are not system workflows and require user intervention to trigger (i.e. clicking the workflow button in Asset layout), the checkbox labeled System WF should be unchecked.

The action button for the workflow will now appear on the **Asset** layout of the iTX desktop or SmartClient.

- **Killable:** Check this check box if you want to allow users to cancel the workflow operation at any point.
- Workflow Definition: If you wish to apply a different XAML file with modified properties, use the ellipsis button on the right of the Workflow Definition pane to browse to the different file. The file path of the current file is displayed in the pane. The default path is set on installation.
- Createable: This field contains the default criteria a piece of media must meet for the corresponding workflow to be actionable in iTX Desktop or Smart Client. For example, for the Manual Archive workflow the default criterion is MediaLocationType is iTX. If a piece of media is not on iTX, the manual archive cannot be performed.

Note: Any changes made to a workflow will require the Workflow service to be restarted. See Restarting an iTX Service on page 59 for more information.

If you add a new workflow or rename an existing workflow you will also have to restart the iTX Desktop or reload the SmartClient in your browser in order for the new name to appear on the corresponding button.

**Configuring the Manual Archive workflow** 

For the Manual Archive workflow you must specify the Delivery Manager endpoint to use for the archive using the **Workflow Properties**. You also may want to specify additional criteria for the **Creatable** condition to ensure only certain media is archived.

To configure the Manual Archive workflow:

- 1 Open Workflow Configuration and go to the Simple tab.
- 2 From the Simple Workflows list, select Manual Archive.
- **3** For the Manual Archive workflow the default **Creatable** criterion is MediaLocationType is iTX.

If additional criteria are required (such as excluding clips that are recording) you can change this default string. To change the criteria:

- a Click the ellipsis button next to the **Creatable** field. The **PinPoint** window appears.
- b Click + next to the first criterion to add another row.
- c Enter your required criterion. For example, to prevent media that is recording from being manually archived, for the first value select Media > Recording, then for the second value select No.



- d To add another criterion click + on the last row.
- e When you have finished adding criteria, click OK. The PinPoint window closes.
- 4 Specify the workflow properties:
  - a Click Properties. The Workflow Properties Editor... appears.
  - b Right click on a blank row and select Add property. The Add New Property... dialog appears.
  - c Set the properties details as follows:
    - In the Name field type ARCHIVE
    - In the Type drop down list select string
    - In the Value field type the name of the endpoint in Delivery Manager (e.g. DIVArchive or FlashNet).
  - d Click OK. The Workflow Property Editor window closes.
- 5 Click **Save**. The Workflow Configuration window closes.
- 6 Restart the Workflow Service. See Restarting an iTX Service on page 59 for more information.
- 7 If you have changed the name of the Workflow, you must also restart the iTX Desktop or reload the SmartClient in your browser in order for the new name to appear on the corresponding button.

### **Configuring a Manual Restore workflow**

For a Manual Restore operation, the workflow needs the media archive location type. This will usually be a third party archiving system such as DIVA, so you would need to include MediaLocationType is Archive in the **Creatable** criteria.

#### To add a DIVArchive location type to the Creatable criteria:

- 1 Open Workflow Configuration and go to the Simple tab.
- 2 From the **Simple Workflows** list, select the **Manual Restore**.
- 3 Click the ellipsis button next to the **Creatable** field. The **PinPoint** window appears, showing the current criteria.

PinPoint - Video Search	
MediaLocationType 💌 Is Not 💌 ITX 💌	
SearchBlock   Or   +	
MediaLocationType 💌 Is 💌 Archive 💌 -	$\mathcal{P}$
MediaLocationType 💌 Is 💌 External 💌 — 🕂	
Sort Name A-Z 🔽 Domains Local 💽 Stemming 🗸	Reset

- 4 Click + next to the last criterion to add another row.
- 5 Enter the criterion:
  - a For the first value, select Media > Location Type.
  - **b** Leave the second value as Is.
  - c For the third value, select Archive.

The criteria will now look like this:

PinPoint - Video Sea	arch						
MediaLocationType	Not 🔻 ITX					-	
SearchBlock 🗸 O	r 🔽					-+	
Ν	/lediaLocationType	▼ Is		Archive	<b>•</b>	-	P
Ν	/lediaLocationType	▼ Is		External	•	-	
L	ocation Type	▼ Is		ITX		+	
Sort Name A-Z 🔻 Domai	ins Local		▼ Ste	ITX Provv			Reset
				Video Server			
Name	Title		Durati	Archive DIVArchive		Last Modified	
				External			

Note: The option for DIVArchive is no longer required, not even for DIVA endpoints.

6 When you have finished adding criteria, click **OK**. The PinPoint window closes.

Note: The **Properties** do not need to be set for a Manual Restore operation, as the archive locations are already known to iTX.

- 7 Restart the Workflow Service. See Restarting an iTX Service on page 59 for more information.
- 8 If you have changed the name of the Workflow, you must also restart the iTX Desktop or reload the SmartClient in your browser in order for the new name to appear on the corresponding button.

### **Configuring the ShotList Export workflow**

For this workflow, you need to set the network shared destination that the video files will be exported to.

Note: The location that you wish to cache ShotList media to MUST be external to your iTX storage. Otherwise the files will be MOVED as opposed to COPIED and the iTX database will not be updated with the media's new location.

### To set the shared network location for export:

- 1 Open Workflow Configuration and go to the Simple tab.
- 2 From the list of Simple Workflows, select the Export ShotList workflow.
- 3 Click Properties. The Workflow Properties Editor... appears.
- 4 Right click on a blank row and select Add property. The Add New Property... dialog appears.
- 5 Set the properties details as follows:
  - In the Name field type destination
  - In the Type drop down list select string
  - In the Value field type \\<Servername>\<folder>
- 6 Click **OK**. The Workflow Property Editor window closes.
- 7 Click **Save** then close the Workflow Configuration dialog.
- 8 Restart the Workflow Service. See Restarting an iTX Service on page 59 for more information.
- 9 If you have changed the name of the Workflow, you must also restart the iTX Desktop or reload the SmartClient in your browser in order for the new name to appear on the corresponding button.

## **Optional Setup and Configuration**

The following setup and configuration tasks are not mandatory, but may be required for certain configuration scenarios.

### **Additional Services**

The following additional services may need to be installed on your iTX system, depending on your endpoint configuration.

Configuration	Required Service	Actions
Post Media Import Workflow field populated	FPP Transcode Service	Install required service or delete contents of the field
Generate Proxies option is enabled (c hecked)	Proxy Generation Service	Install required service or uncheck option

## **Processing Associated XML Metadata Files**

In some circumstances, media can be delivered to a drop box or network share with an associated XML file containing asset and/or business metadata that is also required by iTX.

An example of this is Adobe Premier, which publishes finished edits, together with an XML file containing all associated metadata, to a network share.

Because an endpoint can only import using one asset template and therefore one format, a separate endpoint needs to be created that points at the same repository but uses an asset template that import XML files.

### To configure Delivery Manager to process associated XML Metadata Files

- 1 From Delivery Manager Config, open the configuration profile containing the endpoint that is importing the media.
- 2 Add a new endpoint tab containing all of the same endpoint details, monitored location and workflows as the endpoint that is importing the media.
- 3 In the Asset Template Name field, select a template that will import XML files.
- 4 Click Save and close Delivery Manager Config.
- 5 Restart the Delivery Manager service. See Restarting an iTX Service on page 59 for more information

Delivery Manager will now process the XML metadata files items together with the media.

### **Deep Analysis During Proxy Generation**

Deep Analysis is enabled on installation of the Proxy Generation Service, via an automatic Proxy Generation Service pop-up, pictured below:

Proxy Generatio	on Service Configuration 🗴
Quality: Fa	stest 💌
Single Pass	s, and perform Deep Analysis
when generating	i an MPEG4 proxy Mode
	Save and close

To enable Deep Analysis:

1 Check the Single Pass Mode checkbox.

If the Proxy Generation Service is already installed on your system but **Deep Analysis** is not enabled, this can be done after the install.

2 On the computer running the Proxy Generation Service, click Start > All Programs > iTX 2.0 > Proxy Generation Service Config to run up the same configuration dialog.

## **User Operations**

Once Delivery Manager has been installed and fully configured, specific user operations can be performed from within iTX Desktop and SmartClient. This chapter discusses which operations can be performed in relation to Delivery Manager and should be considered an addendum to the *iTX Desktop Operator Guide* and the *SmartClient Operator Guide*.

Note: iTX Workflow is required to perform any manual user operations for Delivery Manger. See Additional Setup for Manual/Export Mode on page 67 for more information.

### Summary

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## iTX Desktop Transfer Status Display

In Search Media mode, if an iTX Desktop operator adds an asset that does not yet have an iTX location to a live schedule in a playout channel, iTX will then use Missing Materials Manager to trigger Delivery Manager into locating the missing file by querying all its configured endpoints.

Its Cache Status will then be shown as blue in the channel's schedule grid, indicating the media exists on an external store or archive:



Fig. 11-1: Schedule grid indicating media location

This will change to green once the media has been restored to iTX and is then cached to the output server to be played. The progress of the restoration job can then be monitored in either the Smart Client **Jobs** workspace, or iTX Desktop's **Job Monitoring** layout.

The schedule display grid and Missing Materials view on the iTX desktop displays the current status of the asset as the job is progressed:



Clip not available (TXPlay only)

Clip ready and cached (TxPlay only - in the Missing Materials Manager the clip is not missing)



Clip on storage but not cached (TxPlay only)

Clip is being Delivered by Delivery Manager





Clip is being Ingested

When transferring/importing the located media into ITX, Delivery Manager adds the ITX location with the Pending/Not Ready flag.

It is possible that Delivery Manager via the Missing Materials Manager requests an asset on the 3rd party system that is present, but is not yet ready for import.

In this case the Cache Workflow should create the asset with an external location and set the Pending/NotReady flag on the external system.

When the Media changes on the 3rd party system, the asset should be updated (using the Media Update workflow) and the Cache Workflow should proceed to Import the media.

For more information on monitoring Delivery Manager jobs and cache status see Job Monitoring, below.

## **Job Monitoring**

You can track all workflow tasks and user jobs in either the **Job Monitoring** layout of iTX Desktop or the **Jobs workspace** of Smart Client.

The Job Monitoring layout provides additional filtering controls compared to the Jobs workspace in Smart Client, while the Jobs workspace provides the ability to view change job priority and view keyframes in the selected clip.

In iTX Desktop, you must have the Job Monitor global layout added to your user view or the workstation view of the client PC being used. For more information about global layouts see the *iTX System Administrator Guide*.

### To view Delivery Manager Jobs:

1 In iTX Desktop, click **Job Monitoring** from the layout selection bar. The Job Monitoring layout appears.

or

2 In Smart Client, click Job.



The Job page appears.

Proxy Generation Jobs	Keyframe G	eneration Jobs	AE Render Jobs			All Active Jobs	All Failed Jobs
State	Is 🔻 Active 🔻						+ 🔎
Sort Created Newest 🔻							Reset
Found 5 matching Jobs							
Туре	Id Asset Nam	ie	Created By	Created Pr	iority Required By	Active User	State Extended State
Generate Keyframes	157404 ABC GXF 7	720 5574	LBQAITX\LBQAITXADM	IN 8/22/2013 11:11:37 AM 50		🚡 📑 LBQAITX\LBQAITXADMIN	Active 243
Post Media Import	157400 ABC GXF 7	720 5574	LBQAITX\LBQAITXADM	IN 8/22/2013 11:09:34 AM 50			Active
Asset Properties Out	put						
Title ABC GXF 720	5574						
Sub Type							
Duration 00:01:00:05							
Children							
Type Id	Asset Name	Created By	Created Priority	A Required By	Active User Sta	te Extended State	
0	100 005 700 5574						Databa
Generate Proxy 157401	ABC GXF 720 5574	LBOATLX/LBOATLXADMIN :	922/2013 11:09:34 AM 0			Reset	ancel Delete
Conorato Brony	167200 ARC OVE 1			IN 0722/2012 11-00-24 AM E0			l Activo
Bort Modia Import	157207 ARC GYE 1			IN 9/22/2013 11:09:34 AM 50			l Activo
Manual Archive to Maestach	124002 b104 PPC	- Prog Homes under the her	mor L ROAITY/DTOA1002	9/2/2012 11:12:51 AM 50			L Activo
manual / Chive to massicel	134002 0134 000			0/2/2013 11.12.31 AM 30			- Auto

The image below shows the Job Monitoring layout in iTX Desktop.

Fig. 11-2: Job Monitoring layout in iTX Desktop showing Delivery Manager jobs.

The following table explains the columns shown in both the Job Monitoring layout and the Job page:

Column heading	Description
Туре	The type of job it is, e.g. Manual Archive to MassTech
ID	The unique job number (useful for tracking in Workflow related logs).
Asset Name	The clip or asset name.
Created by	This displays the domain and user name of the operator responsible for issuing the job.
Priority	Shows the priority of the job (this can be changed from the grid itself to make a job higher in the job queue, provided the user has rights to do so).
Required by	The date and time the job needs to be complete by.
Active User	This can be different to the user that created the job, e.g. a different operator may be responsible for QC of the media than the one responsible for ingest.
State	The current state of the job. This can be <b>Active, Cancelled, Completed,</b> Failed, Held, Paused or Waiting.
Extended state	This shows which part of the job is currently in progress and can display the percentage completed during the job itself.

Note: The final column allows the user to reset a failed job (which reissues the job) or delete either active or failed jobs.

## **Filtering jobs**

The following steps can only be performed from the Job Monitoring layout of iTX Desktop.

To filter the jobs displayed in the Job Monitoring layout:

- 1 Click one of the pre-filter buttons at the top of the layout to view the associated job types:
  - Proxy Generation Jobs
  - Keyframe Generation jobs
  - AE Render Jobs (Adobe After Effects render jobs)
  - All active jobs
  - All failed job
  - The job grid will update to show all of the associated jobs.
- 2 Use the filter controls below to narrow down the list of jobs:

State		ls 🔻	Active 🔻	]
Include Children 📃	Sort	Create	ed Newest	

- a Click the first drop down menu and select one of the following criteria:
  - CreatedBy
  - SearchBlock
  - State
  - Type
- b Click the middle drop down menu and select a logic (e.g. Is or IsNot).

The contents of the logic list will depend on the option you selected in the criteria drop down list.

c Click the third drop down menu and select a condition.

The contents of the condition list will depend on the option you selected in the criteria drop down list.

- 3 To include child jobs in the list, check Include Children.
- 4 To change the order jobs are displayed, click the **Sort** drop down list and select either **Created Newest** or **Created Oldest**.
- 5 To add an another set of filter criteria, click the + button on the right.
- 6 Repeat step 2 to step 4 to enter the additional criteria.
- 7 Click the **Search** button  $\swarrow$  to apply the filter.

The job grid will update to show all of the jobs that match the specified criteria.

## Viewing more details and displaying keyframes

The following steps can be performed from both the Job Monitoring layout and the Jobs workspace. If you wish to preview keyframes you will need to use Smart Client's Jobs workspace.

### To view more details of a particular job:

- 1 In the job grid, click on a job. The entry will expand to show more details.
  - In the Job Monitoring layout the following details are displayed:
    - Name
    - Title
    - Content Type
    - Duration.
  - In the Jobs workspace the following details are displayed:
    - Media viewer window
    - Title
    - Content Type
    - Duration.
- 2 In the Jobs workspace, slide your mouse cursor back and forth over the media viewer to shuttle backwards or forwards through all the key frames associated with the selected clip.

### Changing priority of a job

The following steps can be performed from both the Job Monitoring layout and the Jobs workspace

The default priority rating for all jobs is 50. The priority can be set to any value between 1 and 100, provided the user has administrative rights. 100 is the highest priority, 1 is the lowest.

### To change the priority of a job:

- 1 In the job grid, click on a job. The job will expand to show more details.
- 2 In the **Priority** column, use the up and down arrows to change the priority of the selected job.
- 3 Click the green tick to store the changes.

### Changing required by data and time of a job

The following steps can be performed from both the Job Monitoring layout and the Jobs workspace

### To change the Required by time of a job:

- 1 In the job grid, click on a job. The job will expand to show more details.
- 2 In the **Required by** column, change the date in either of the following ways:
  - Click on the date field. Enter the new date in the required format (dd/MM/yyyyy). or

- Click on the **date** button 📷 to select a date from the pop-up calendar.
- 3 In the **Required** by column, change the time in either of the following ways:
  - Click on the **time** field. Enter the new time in 24 hour format.
  - Click on the **clock** button 🖸 to select a time from the drop down list.
- 4 Click the green tick to store the changes.

### **Direct Monitoring of MassTech Jobs**

As well as the iTX based methods of monitoring the status of current jobs being handled by Delivery Manager, the MassTech Archive itself has a browser-based user interface and can therefore be accessed across the network.

### To access the MassTech direct monitoring page:

- 1 Open an Internet browser.
- 2 In the Address bar, type the IP address of the MassTech archive manager server.
- 3 In the Username and Password fields enter the credentials provided by MassTech.
- 4 The MassTech Topaz archive control panel appears (Figure 11-3).

TOPE	ZF	)_1	IOME S	SEARCH	STA	TUS MANA	GEMENT	SYSTEM	HELP	omnib Logou	us It
System Up Time: 2012-10-3	30T00:31:22		Web User	s: 1	X	ML Users: 0	Proxy E	ngines: ???	Ele	apsed session time:	00:00:42
CINE STAR	• ARCHIVE	INFORMATIC	N				• TRANSF	er queue			
Quidablinks	Archive	Instances 243	Hours 1:59	Media	Free 38.2G	MaxBlock	To	Archive 🏜	Queue Inf	o 🏦 To Sei e m I	rver
SEARCH				_					💷 Rate(MB/S)	) 🕮 0	
Advanced				_	_						_
D Combined	STORAG	E INFORMATI	ON				• OPERAT	OR ACTION R	EQUIRED		_
Combined Storage Locations	STORAG     Name	E INFORMATI	ON s Hours	F	ree	Total	OPERAT     Sequence	OR ACTION R	EQUIRED Opera	tor Message	Action
Combined Storage Locations	STORAG     Name     INBOX	INFORMATI	DN s Hours 0:0	F	ree	Total	OPERAT Sequence 14	OR ACTION R Time 10-30 00:31	EQUIRED Opera MassStore appl	tor Message lication started at (30/	Actio
Combined Storage Locations Archive Locations	STORAG     Name     INBOX     IX2-222-QA	E INFORMATI	DN B Hours 0:0 0:0	F	ree	Total	OPERAT Sequence 14 1	DR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.168.170.76	tor Message lication started at (30/ 8 is the new master as	Actio Remo
Combined Storage Locations Archive Locations STATUS	STORAG     Name     INBOX     IX2-222-04     IX2-222-04     IX2-222-04	E INFORMATI Instance 0 0 0 290	0N s Hours 0:0 0:0 0:0 0:0 8:51	78.70	iree	Total	OPERAT     Sequence     14     1	DR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.188.170.76	tor Message ication started at (30/ 8 is the new master as	Actio Remo
Combined     Storage Locations     Archive Locations <b>STATUS</b> Transfer Status	STORAG     Name     NBOX     Dt2-222-04     Dt2-222-04     LOWER	Instance 0 0 290	Hours           0:0           0:0           0:0           0:0           8:51	78.70	ree	Total	OPERAT Sequence 14 1	OR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.168.170.76	tor Message lication started at (30/ 8 is the new master as	Actio Remo
D Combined     Storage Locations     Archive Locations <b>STATUS</b> Transfer Status     Transcode Status	STORAG     Name     INBOX     K2:222-04     K2:222-04     LOWER	INFORMATI	0N s Hours 0:0 0:0 0:0 0:0 8:51	78.70	iree 3 8	Total	OPERAT Sequence 14 1	OR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.168.170.76	tor Message ication started at (30/ 3 is the new master as	Actio Remov
Combined     Storage Locations     Archive Locations <b>STATUS</b> Transfer Status     Transcode Status     Media Status	+ STORAG Name INBOX IX2-222-QJ IX2-222-QJ LOWER	Instance 0 0 0 290	0N 5 Hours 0:0 0:0 0:0 8:51	78.70	iree 3 8	Total	• OPERAT Sequence 14 1 MESSAGES •	OR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.188.170.76	Nor Message lication started at (30/ 8 is the new master as	Actio Remov
Combined Storage Locations Archive Locations TATUS Transfer Status Transcode Status Wedia Status Workflow Status	STORAG     Name     NBOX     DX222-0J     LOWER     Source	Instance 0 0 290 Time	0N s Hours 0.0 0.0 0.0 8.51 Type	78.70	iree 3 8	Total	• OPERAT Sequence 14 1 MESSAGES • Messa	OR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192 188.170.76	Nor Message lication started at (30/ 8 is the new master as	Actio Remov
Combined Storage Locations Archive Locations STATUS Transfer Status Transcode Status Media Status Workflow Status S Workflow Status	STORAG     Name     NBOX     NX222-0J     LOWER     Source     SYSTE	E INFORMATI Instance 0 0 290 Time 10-31 09:08:30	0N s Hours 0:0 0:0 0:0 8:51 Type INFORMATI	F 78.70	ree 3 8	Total	OPERAT     Sequence     14     1  MESSAGES Messa 10000	DR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.168.170.76	tor Message lication started at (30/ 0 is the new master as	Actio Remov Remov
Combined Combined Storage Locations Archive Locations <b>STATUS</b> Transfer Status Transcode Status Media Status Vorkflow Status Job Status	STORAG     Name     NBOX     DX2-222-0J     DX2-222-0J     LOWER     Source     SYSTE     SYSTE	E INFORMATI Instance 0 0 290 Time 10-31 09:06.3 10-31 09:06.3	Type           INFORMATI.           ERROR	F 78.70	Tree 3 8	Total 820.43 • SYSTEM Iuration=2914.limit= Iuration=22923.limit	OPERAT     Sequence     14     1  MESSAGES Messa 10000  =10000	OR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.168.170.76	itor Message lication started at (30/ 8 is the new master as	Actio Remo Remo More
Combined     Combined     Storage Locations     Archive Locations     STATUS     Transfer Status     Transcode Status     Media Status     Workflow Status     Job Status	STORAG     Name     NEOX     DX2-222-04     DX2-222-04     LOWER     SVSTE     SVSTE     SVSTE     SVSTE	E INFORMATI Instance 0 290 Time 10-31 09:06:3 10-30 11:54:2:	Type           INFORMATI           ERROR	F 78.70 78.70	iree 3 8	Total 120.43 • SYSTEM Iuration=2914.limit= Iuration=293.limit=0	• OPERAT     Sequence     1     1  MESSAGES  Messa  10000  =10000	OR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.168.170.76	tor Message lication started at (30/	Actic Remo Remo More
Combined     Storage Locations     Archive Locations <b>STATUS</b> Transfor Status     Transcode Status     Media Status     Workflow Status     Job Status	STORAG     Name     INBOX     DX2-222-0J     LOWER     SYSTE     SYSTE     SYSTE     SYSTE     SYSTE	E INFORMATI Instance 0 290 Time 10-31 09:06:3 10-30 11:54:21 10-30 11:54:21	Type           INFORMATI.           ERROR	F 78.70 78.70 state=Pi state=Pi state=Pi state=Pi	rocessing.di rocessing.di /aiting.dural rocessing.di	Total	• OPERAT     Sequence     14     1     •     MESSAGES     Messa     10000     =10000	OR ACTION R Time 10-30 00:31 10-30 00:31	EQUIRED Opera MassStore appl 192.188.170.76	tor Message lication started at (30/ 5 is the new master as	Actio Remov Remov

Fig. 11-3: MassTech Topaz interface.

Note: If you have a MassTech Topaz connection open then nothing else, including the MassTech endpoint, can connect using the same user name and password.

You must not use the same credentials to connect via a browser as are used by the MassTech endpoint. If the MassTech endpoint is connected when you try to log on to the MassTech Topaz Interface using the same credentials, Topaz will display the warning message:

This user is currently connected through another computer. Would you like to login and terminate the rest of sessions? If you then click OK you will disconnect the endpoint from the MassTech Archive.

## **Manually Archiving and Restoring Jobs**

Manual archive and restores jobs can be perform from both the iTX Desktop's **Asset** layout or SmartClient **Asset** workspace.

### To perform a manual restore:

- 1 Go to either the **Asset** layout on the iTX Desktop or the **Asset** workspace in Smart Client.
- 2 Search for the asset to be restored and load the details.
- 3 Click the **Actions** tab on the right hand side below the media preview window, then click **Manual Restore**, as shown below:

D	ØDSFALL-031210	DS-DR1900				
	Asset Locati Events E	ions Attribute Event Logging	s Access Rig Co-References	hts Categorie Actions	es Notes Domains	Metadata Jobs
						<b>^</b>
	Copy to YPRO	CopyFile	DivaArchive	DivaRestore	Export Asset	
	Export to NOARK (example)	Generate Proxy RKUNICKI	Make MPEG4 Proxy	Manual Archive	Manual Partial Restore	1
	Manual Restore	Multi-Domain Content Transfer	oz_test	oz_test1	OZZY_export_to_e xternal	
	Restore	Transfer Media				V

Fig. 11-4: Actions tab of the Asset layout, showing the Manual Restore button.



The same operations can be carried out with the iTX Smart Client, provided the relevant Action Button has been configured beforehand:

Fig. 11-5: Manual Restore in Smart Client

4 Jobs are sent to the Opus Service and given a unique Job ID in order to enable the operator to track its progress. Opus then forwards the job onto Delivery Manager, which in turn passes it to the appropriate endpoint.



## Partial Restore jobs (DIVA only)

A partial restore is performed when only a marked segment of an archived clip is required for playout. A user can mark up a section of media via the iTX Desktop or SmartClient and the DIVArchive management software will create and export a copy clip that just contains the media required for playout.

Instead of the whole media clip being transferred to an iTX location, the section marked up with an in-point and an out-point points is generated as a new physical file by the DIVArchive.

Note: Currently, manual Partial Restores only work with DIVArchive systems with self-contained Quicktime MOVs.

To ensure all frames of marked clip are available in a long GOP file structure, the file may contain a small additional number of frames to the amount as specified by the newly created Asset. These are not shown when previewing or playing out between the marked points.

Partial restores can be perform from both the iTX Desktop's **Asset** layout or SmartClient **Asset** workspace.

### To mark up a clip and perform a partial restore:

- 1 Open either the **Asset** layout on the iTX Desktop or the **Asset** workspace in Smart Client.
- 2 Search for an asset known to exist on the DIVArchive.
- 3 Click the **Actions** tab.
- 4 Mark the required in-point and out-point by dragging the green and red markers to the appropriate timecodes, as pictured below:



- 5 Click Manual Partial Restore. The Submit Manual Partial Restore job dialog appears.
- 6 Click on a priority button (Low, Medium or High) and click Submit. A new job will be created.
- 7 Click OK.

The name of the new media file is based on that of the parent co-reference but with a Created date and time stamp.

Alternatively, if a ShotList contains a reference to a segment of a clip that is stored on a DIVArchive, when it is loaded as an asset for playout, the DIVA based media will be partially restored as part of the media required.

### Viewing a partially restored media file

Partially restored video clips can be viewed in the asset media viewer in iTX Desktop's **Asset** layout or the SmartClient **Asset** workspace.

### To view a partially restored media file:

- 1 Open either the **Asset** layout on the iTX Desktop or the **Asset** workspace in Smart Client.
- 2 Search for an asset that has been partially stored and select it.

When the media viewer in the iTX Desktop is set to Auto Load it will, by default, load the largest file available for the clip. However, if set to Manual, it will list the locations of available media files that contain the complete media for that particular asset.



For each asset the following information is shown:

- The location type (e.g. proxy or iTX)
- The storage format or media container (e.g. MPEG-4)
- The location (e.g. SVR2561)
- A time line graphic that represents the length and position of the clip in relation to the parent media.

The gray section of the time line represents the length of the media containing that clip. The yellow section represents the length of media in the specific location. The triangular markers show the in and out points of the clip.

3 Hover the mouse pointer over an entry to view more details, as pictured below:



4 Click on an entry in the list. The corresponding clip loads in the viewer.

Note: Timelines only show for clips that have locations for partially restored media.

5 Click the **All Media** tab to view full details of all media files that co-reference the same parent media:



for co-references

- 6 Click **Show Clip Extents** to toggle the guide lines that show the in and out points for the clip.
- 7 Select a type from the **Show Types** drop down list to filter the types of media show (e.g. proxy files).

The color coding identifies the locations of the associated media including partially restored files:

Color	Description
Green	The file contains all the media for the current video clip.
Orange	The file contains a portion of the media for the current video clip.
Red	The file contains no media for the current video clip.

## **Exporting ShotLists from the iTX Desktop and SmartClient**

Another manual operation that can be carried out from the iTX Desktop and the SmartClient is the ability to export shot lists to a remote network share.

A ShotList is a simple sequence of sections from a number of clips. When a ShotList is exported manually, all the media assets required for the sequence are transferred from the DIVArchive to a specified network shared directory. An operator might want to export the media required to a craft editing system in order for the sequence to be edited and compiled into a single clip.

Note: To perform ShotList exports there are two workflows that must be installed. See Configuring the ShotList Export workflow on page 71.

### To export shot lists to a remote network share:

- 1 In the SmartClient, produce a ShotList or load one into the **Asset Layout** of the iTX Desktop.
- 2 Select the Target Project tab.
- 3 In the Actions tab, then click the Cache ShotList button.



The export is a two stage process:

• All the required media is checked and if any does not have a current iTX location, Delivery Manager creates jobs to import it into iTX.

If any segments of the ShotList project are from clips that have a DIVArchive location, an automatic partial restore is issued for the required media.

• When all the media has been verified to have an iTX Location, all the parts of the ShotList are then copied to the remote network share into an automatically created folder with the ShotList project's name.

## **Exporting ShotList XML**

If the ShotList is being exported for craft editing, in an application such as Final Cut Pro, then an XML file containing the in and out points for each shot in the list can also be exported from the SmartClient.

### To export a ShotList XML:

- 1 In the SmartClient, produce a ShotList or load one into the Asset Layout of the iTX Desktop.
- 2 Select the **Target Project** tab.
- 3 In the Actions tab, click FCP Export.

	Actions		
Cache Shotlist	Create Keyframes	Create Proxy Media	
Export Asset	Transfer Media	Manual Archive to Masstech	
Manual Archive	Manual Archive to CIFS - Search	Manual Restore Regardless	
Manual Partial Restore	Manual Restore	Multi-Domain Content Transfer	
			FCP Export

SmartClient opens the FCP Export dialog.

4 Select the machine that you want SmartClient to copy the required media files to. Click **Next**.

SmartClient opens the Save As dialog.

5 Enter a name for the FCP project file and select the folder where you want SmartClient to place this file. Click **Save** to close the dialog.

SmartClient creates an FCP project file from the project clip and copies the required media files to the specified machine.

## **Delivery Manager Feature Set**

This chapter details Delivery Manager's feature set and which of those features each endpoint supports.

### **Summary**

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## **Delivery Manager Feature Set**

The table below describes each of these features, followed by another table that identifies the features supported by each of the endpoint drivers:

Feature	Description
Content changes	If content is added, deleted or modified on the store or location the end- point is configured to monitor, it reacts by updating the asset's record within the iTX database and then re-import or delete the appropriate file as required.
Monitor folder ("drop box")	The endpoint specifically monitors a folder on a remote content store. When new assets arrive in that location, they are processed. Likewise, if any assets are deleted or modified in that location, the asset and its record are updated, depending on the specific configuration of the end- point type.
Process XML files	The endpoint can update Asset Records within the iTX database by pro- cessing XML based metadata files that are deposited at the location it is configured to monitor.
Check for "place holder" assets	The endpoint can process new asset records that as of yet do not have an actual associated media file. In production terms, a Place Holder Clip.
Processes creates	The endpoint creates, or in some cases updates, an asset record when importing new media.
Processes deletes	The endpoint deletes an asset and its associated record if requested to do so.
Processes renames	If an asset is renamed in Opus, via the SmartClient or iTX Desktop then the endpoint can process the action.
Find Colossus/iTX 1.4 system content	The endpoint can actively query a store, archive or external content man- agement system to locate a file requested via Missing Materials Manager.

Feature	Description
Import	The endpoint either copies a file to an iTX location and updates the asset record to state the media now exists in iTX exclusively; or it physically 'moves' the file by copying it to iTX then deleting the original and updating the asset record accordingly.
Archive	The endpoint copies or moves an asset to an external archive (depending on configuration) and updates the asset record with the media's new External location.
Delete	The endpoint processes delete requests for their store or archive and passes these requests to the store or archive management software.
Reference media	The endpoint performs the ingest of referenced based media, automati- cally handling all associated essence files, including audio, video and xml containing asset data.

## **Supported Features by Endpoint**

The feature set available for each endpoint is shown in this table:

Feature	FTP	Pitch Blue	CIFS/ SMB	DIVA	Mass Tech	Path Fire	Ardome	SGL	Core
Content changes			$\checkmark$	$\checkmark$	$\checkmark$				$\checkmark$
Monitor folder ("drop box")			~						
Process XML files			$\checkmark$						
Check for "place holder" assets			~						
Processes creates			$\checkmark$	$\checkmark$					
Processes deletes			$\checkmark$	$\checkmark$					
Processes renames			$\checkmark$						
Find content	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Import/restore	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Archive	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	
Delete	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$			$\checkmark$	
Reference media (MOV, MXF)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$					

#### Note:

- The Pitch Blue Archive endpoint uses FTP for the transfer of files to and from the archive, so Pitch Blue and FTP share the same functionality options.
  The iTXV1 End Point is not listed here, as its register in place functionality is not
- comparable with the remaining endpoint drivers.

# Troubleshooting

Delivery Manager can provide diagnostic information that can be used to identify and resolve problems. The most common problems are:

- A Delivery Manager endpoint cannot access the store or connect to the archive management software it is configured to use.
- Delivery Manager cannot connect to the Locator Service and the iTX database.
- A media transfer has failed.

The following diagnostic areas can help you solve these problems.

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## **Basic System Checks**

Before attempting to diagnose any Delivery Manager faults there are a few basic system checks you can carry out that may save you a lot of time.

- If you had to stop the service while making changes to configurations, check that Delivery Manager is running.
- In the configuration profile, make sure the **Enabled** checkbox is checked for each endpoint.
- Check that other framework services essential for Delivery Manager's operation are also up and running, for example:
  - Locator Service
  - Opus service

## **Monitoring Status and Health**

Each endpoint running from a single instance of Delivery Manager has its own control panel tab. A health light indicates the state of the endpoint.

A green light indicates the endpoint can access the store or is communicating with the archive system it is configured for.

A red light indicates that Delivery Manager has a connection or access problem, either with the iTX system, the store or archive management software.

The Service Details tab shows a brief summary of the errors logged in the Health Test window to the right of the Service Info details.

If errors are listed here, then click the diagnostics tab to run a diagnostic test that will supply more detailed information on the errors.

### **Core Endpoint Connection Failure**

If Delivery Manager cannot connect to the specified Colossus/iTX 1.4 database, an error will show in the Delivery Manager logging window. The connection status indicator for the Core endpoint will also be red.

On connection to the Colossus/iTX 1.4 database, Delivery Manager checks to see if any new functions or procedures have been installed on the Colossus/iTX 1.4 database. Delivery Manager will show a warning state if any of the required database objects (functions and procedures) are missing and an error will be displayed in the logging window. For details on how to run these stored procedures against the Colossus/iTX 1.4 database, see Preparing the Database for Core Endpoints, on page 40.

## **Running Diagnostics on the Delivery Manager Service**

You can run a full Delivery Manager Diagnostic Report from the Diagnostics tab by clicking the bar button labeled **Generate Diagnostic Report** at the top. This will test all connections required by Delivery Manager including Locator Service and iTX database. It will also report on the ability to connect to the configured stores and archives.

If the problem is connecting with the iTX system itself see the *iTX System Administration Guide* for troubleshooting database or Locator Service connection issues.

If the problem lies with accessing the store or connecting to the archive management software, we recommend checking the network connection.

### To check network connectivity:

- 1 On the Delivery Manager server, open an MS-DOS Command Prompt. In Windows, it can usually be found on the Start menu under **Accessories** > **Command Prompt**.
- 2 From the Command Prompt window, type ping followed by the IP address of the network store, for example ping 192.168.170.82:9002. Wait for a response.
- 3 Type ping again, followed by the address of the network store, for example ping dev\_qa\_2.3. Wait for a response.

4 If you can ping the store's IP address and resolve its domain name, then re-run the Delivery Manager configuration tool and check your settings for this particular endpoint.

Depending on the endpoint type, you may be able to test the connection to the network share from the configuration tool, via the **Test Connection** button, as pictured below:

FTP					
Driver:	FTPDriver			Select	
Store Name:	FTP				
Content Char	iged Workflow Name:				
Cache Conte	nt Workflow Name:	Cache	Media		
Maximum Cor	ncurrent Jobs:	5	🔶 0 = unlimit	ed	
Allow Me	dia Deletes ncurrent Delete Jobs:	0	0 = up to 1	max jobs	
IP Address			Username		
Port	21	* *	Password		
Folder			Extensions		
Metadal	a? 🔲 Supports	Proxy?	🔲 Custom Meta	data?	
	Test Connecti	ion			
Add Now F	nd Point Berr	ove Curr	ent End Point		

## **Generating Trace Logs in Delivery Manager**

If you are still experiencing problems, Trace Logs can be used to gather detailed information about the errors. This can be managed either in Delivery Manager Service or via the iTX Desktop.

### Viewing trace logs from the Delivery Manager Service

If any transfers are failing or you have connection issues, these will be reported in the trace logs. Reconciling the information in these logs require expert knowledge and therefore should be sent to Grass Valley.

### To view trace logs:

- 1 From the Delivery Manager Service user interface, select the Trace Logs tab.
- 2 In the Categories window, check the Delivery Manager checkbox.
- 3 To enable the highest level of detail possible for logging, check the **Verbose** box at the bottom of the **List** tab.

Note: In this mode, the amount of logging carried out will generate very large log files very quickly. It is therefore not advised to run in this mode any longer than necessary.

### **Creating a log file from Delivery Manager**

The logging is not automatically written to a log file. The information is retained by the Opus service. In order to write the logs to a log file, a Logging Profile must be loaded. This is a special XML configuration file that tells Delivery Manager the categories of information, the level of detail and where you wish the file to be created and what you want it to be called.

### To load a profile:

- 1 On the Trace Logs tab, click the Load Profile button.
- 2 Delivery Manager logs are written as simple text files with a .log file extension.
- 3 Log files can then be zipped up and sent to Grass Valley.

You may also want to highlight any errors logged in List window, using the right mouse button, then copy and paste the log entries into a text file to send to Grass Valley Support.

Note: Remember to turn off logging after you have acquired the information you need, as log files can become very large and fill hard disk space if logging is left switched on.

To acquire a logging profile configuration file, contact Grass Valley support or your Grass Valley sales representative.

### Viewing trace logs from the iTX Desktop

Within the iTX Desktop, the Logging layout allows you to view any logs being generated by any service in your iTX system. It allows you to connect to each endpoint and select the logging categories you wish to see.

To view any endpoint's logging from the Logging Layout:

- 1 In the top right of the layout, click **Remote Service Trace Logging (FOR DEBUG USE ONLY)**.
- 2 Click Category, then select Opus.
- 3 Click Service Provider, then select any one of the listed named endpoints (they will be labeled endpoint: followed by the name you gave it on initial configuration).
- 4 In the Log Categories column check the Delivery Manager checkbox.
- 5 In order to stop the logging momentarily while you read any on screen messages, click Pause. You can also configure the level of logging you wish to see (Information, Verbose, Warning or Errors) via the checkboxes at the bottom of the logging window.

## **Monitoring Active Jobs in Delivery Manager**

The Active Jobs tab lists all the jobs currently being progressed by this instance of Delivery Manager.

The table below describes the columns in this dialog:

Column	Description
Job Name	Lists the type of job in progress.
Job ID	Indicates the order that the jobs are being progressed in and can be used to track the progress of any particular job in the trace logs.
Filename	Displays the original name of the file on the remote store and the network path from where it is being copied
Status	DisplaysDelivery Manager the current status of any job in the queue. It has four states that are important to the user:
	• Idle - this means the job is either waiting to start or is waiting for a user response before moving to the next stage (Media QC for instance).
	<ul> <li>Active - The job is currently in progress (a file is in mid transfer for example)</li> </ul>
	<ul> <li>Aborted - The Job has either failed or has been cancelled by a user action. In the case of a failure, use the Job ID to track the job's progress through the trace logs.</li> </ul>
	<ul> <li>Completed - The job has now finished completely (the file has trans- ferred and the database has been updated with new metadata etc.).</li> <li>In diagnostic terms, this is the most important column.</li> </ul>

## Verifying an iTX 1.4 or Core Database Update

Before either the Core or iTXV1 endpoints can be used, the corresponding iTX 1.4 or Colossus database needs to be updated using a special batch file (see Preparing the Database for Core Endpoints, on page 38 and Preparing the iTX 1.4 Database, on page 51).

Once the batch files have been executed, you can verify the Core or iTX 1.4 database has been updated successfully by checking for the following:

- 'Trigger On' table
- Store procedures
- Required functions
- The Service Broker is present

## Verifying the 'Trigger On' table is present

### To verify the 'Trigger On' table is present:

- 1 Using your SQL Server Manager application, access the Core/iTX1.4 database.
- 2 Locate the table dbo.Omnibus\_CLD\_ClipDetails and expand Triggers.
- 3 Check there is a table named otg\_OPUS\_DM\_Core\_PushClipChanges.

### Verifying the Stored Procedures are present

### To verify the stored procedures are present:

- 1 Using your SQL Server Manager application expand **Database** > **Programmability** > **Stored procedures**.
- 2 Check the following stored procedures have been added: dbo.osp\_OPUS\_DM\_Core\_GetAssetXMLFromAssetName

dbo.osp\_OPUS\_DM\_Core\_GetAssetXMLFromAssetNameWithMetadata

## Verifying the required functions are present

### To verify the required functions are present:

- 1 Using your SQL Server Manager application expand Database > Programmability > Functions > Scalar-valued Functions.
- 2 The following functions should have been added: ofn\_g3Media\_ContnetSegmentType\_GetPathFromID ofn\_OPUS\_XML\_GetContentEventsAsXML ofn\_OPUS\_XML\_MetadataEventsAsXML

### Verifying the Service Broker is present

Note: This step is not required for SQL 2005.

### To verify the service broker is present:

- 1 Using your SQL Server Manager application, select Properties > Options (Service Broker)
- 2 Check that Broker Enabled = True.
- 3 Expand Database > Service Broker > Message Types
- 4 Check for MessageContractType
- 5 Expand Database->Service Broker->Contracts
- 6 Check for DMCoreContract
- 7 Expand Database->Service Broker->Queues
- 8 Check for dbo.DMCoreQueue
- 9 Expand Database->Service Broker->Service
- 10 Check for DMCoreService



## **Grass Valley Technical Support**

For technical assistance, contact our international support center, at 1-800-547-8949 (US and Canada) or +1 530 478 4148.

To obtain a local phone number for the support center nearest you, please consult the Contact Us section of Grass Valley's website (www.grassvalley.com).

An online form for e-mail contact is also available from the website.

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