



TrafficManager User's Guide



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Preface

This guide describes the Vantage TrafficManager product and its components, explains how to use the Dublist Portal for managing dublists, and presents typical scenarios and workflows you can create using TrafficManager to manage your commercial inventory.

These are the chapters in this guide:

- [Preface](#)
- [Using the Dublist Portal](#)
- [Commercial Production Workflows](#)
- [Index](#)

Telestream Contact Information

To obtain product information, technical support, or provide comments on this guide, contact us using our web site, email, or phone number as listed in [Table 1](#).

Table 1. Telestream Contact Information

Resource	Contact Information
Telestream Technical Support	Web Site: http://www.telestream.net/telestream-support Support Email: support@telestream.net
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Introduction

This guide presents an overview of TrafficManager, a Vantage option that automates the process of receiving, ingesting, analyzing, transcoding, approving, and delivering commercials for broadcast and cable companies.

Many topics important to TrafficManager are not included in this guide because they are available in other guides:

- *Vantage User's Guide*—Explains workflows and how to use the Workflow Portal and the Workflow Designer in detail.
- *Vantage Domain Management Guide*—Describes the Vantage Management Console, including configuring the Dublist Portal and Dublist Schemes.
- *Upload Portal Administration Guide*—Explains how to configure the Upload Portal for use by your advertisers. The built-in help system explains how to use the portal.

This chapter provides an overview of TrafficManager and its components, including these topics:

- [How TrafficManager Works](#)
- [TrafficManager Actions](#)
- [Bringing It All Together in Workflows](#)
- [Conclusion](#)

What Is TrafficManager?

A licensed option to Vantage, Vantage TrafficManager offers the services, components, workflow actions, and interfaces needed to automate and streamline commercial and content handling for television broadcasters and cable television facilities. TrafficManager provides a complete solution for managing syndicated and commercial media using rules you specify to find, process, and deliver the media ready to air. TrafficManager workflows can perform each of these steps automatically:

- Ingest media from clients and national delivery systems
- QA inspection and correction (with operator review if required)
- Transcoding to broadcast formats
- Dublist reconciliation
- Delivery to ad insertion or broadcast servers
- Automation system notification

TrafficManager handles local, regional, and national ad ingest and processing. For national ads, TrafficManager integrates with common digital media delivery services, such as DG Fastchannel, Javelin, ExtremeReach, and Comcast ADN (Radiance). Commercial media with metadata and trim points are ingested and processed automatically. For local ad submission, a customizable Web Upload Portal provides your clients with their own Web page for submitting assets and metadata directly into your Vantage workflows which are triggered when they receive a file.

Dublist monitoring and inventory tools let you quickly verify which commercials have been processed and which are pending and may need your attention.

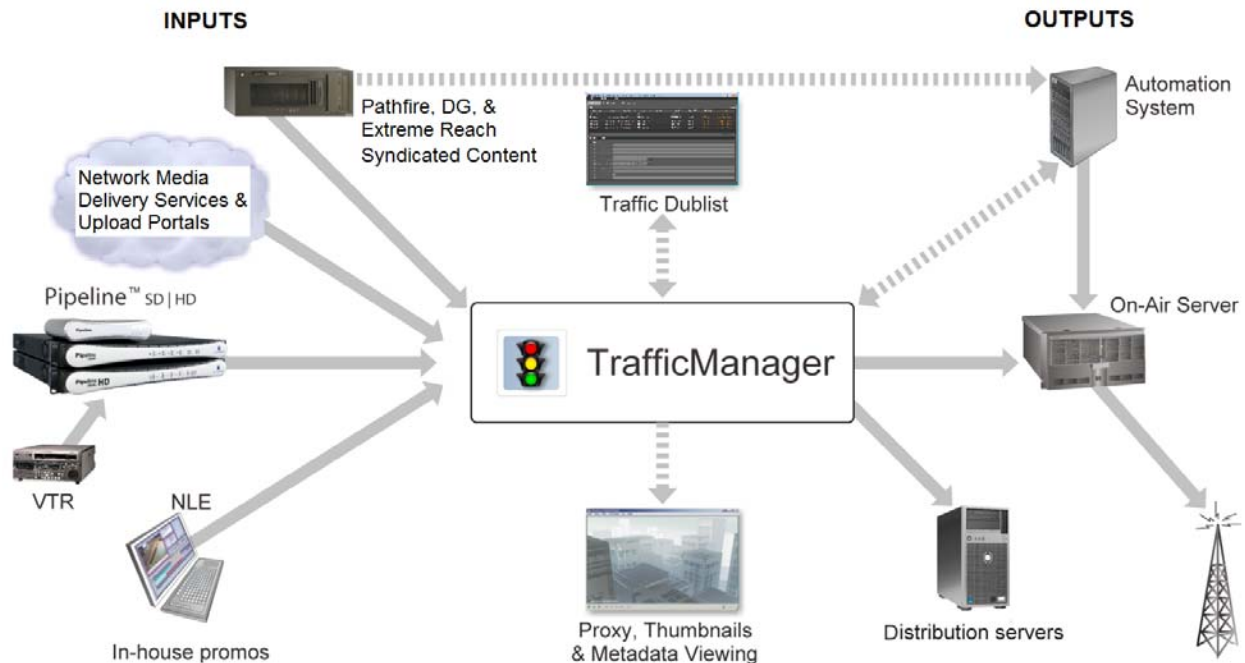
Once submitted to TrafficManager workflows, media can be automatically checked by Vantage Analysis and optionally by third party tools, such as Aurora, Baton, and VidChecker to ensure compliance with your audio and video specifications (including CALM act audio loudness), detect and process captions, and streamline the legal compliance review and approval process using web-based review and approval tools and automated content preparation.

Best of all, TrafficManager offers superior flexibility, allowing you to build and modify rules for processing media, and easily replicate those workflows to other operations.

How TrafficManager Works

TrafficManager provides the ability to automatically manage commercials and programming received from various sources, including syndicated content providers, media delivery services, local advertisers, and in-house content providers. The flexibility of TrafficManager easily accommodates the functions shown in [Figure 1](#) and more.

Figure 1. Traffic Manager Overview



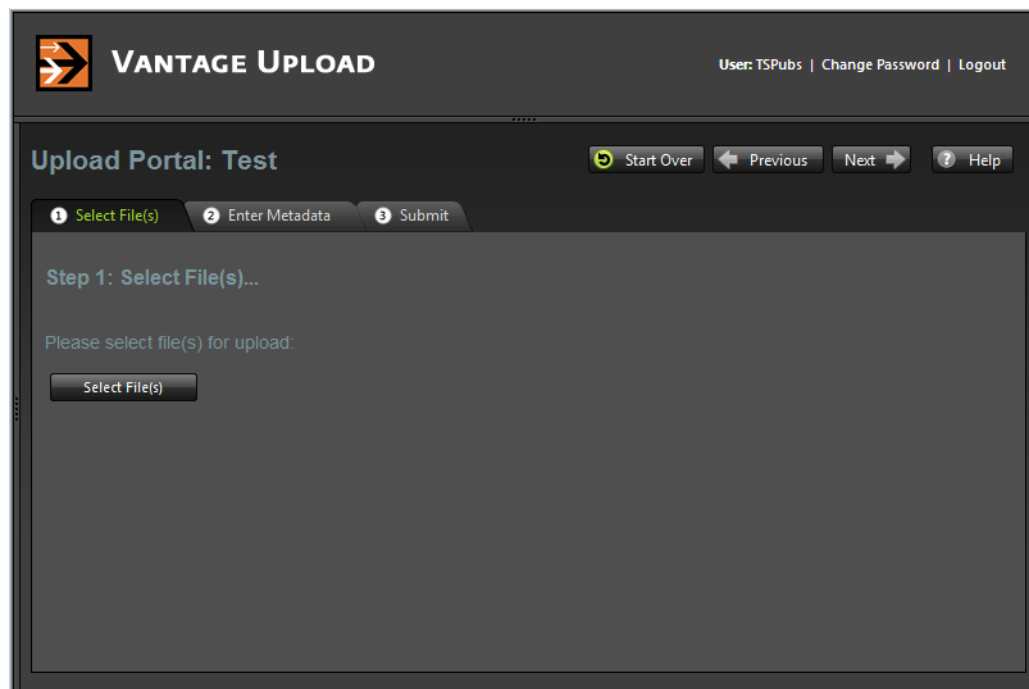
These components provide the needed capabilities to handle the functions shown:

- **Web Upload Portal**—web page used by advertisers and network media delivery services to upload commercials to your server. The Upload Portal can also be used internally for editors to submit promo content with metadata to TrafficManager.
- **Management Console**—administrator client program used to create user accounts, catalogs, binders, variables, labels, nicknames, dublist schemes, Dublist Portal and Workflow Portal configurations and access privileges.
- **Dublist Portal**—Application for viewing and managing traffic dublists.
- **Workflow Designer**—the primary designer client program for creating and managing workflows that handle traffic ingest from servers and catch servers, transcoding, and distribution. Media, dublist, and sidecar file inputs can be automatically received and processed from all the sources shown, including taped commercials digitized using Telestream Pipeline. Media, dublist information, and sidecar file outputs can be deployed automatically as shown to broadcast and cable automation systems, on-air servers, and distribution servers.
- **Workflow Portal**—the primary user client program for managing commercial inventory, including preview and approval, adding metadata, and adding trim points to produce media ready for distribution.

Web Upload Portal

The Web Upload Portal is a Web application that provides you with a customizable Web interface to your TrafficManager system through which local and regional advertising clients can submit their ad media. You can create an account and a customized Web page for each client. When clients log in, the page outlines a simple three-step process and provides an interactive interface that allows the user to (1) select a file, (2) enter metadata, and (3) submit the file. When submitted, the file goes directly to your TrafficManager ingest workflow specified when you customized the Upload Portal for your client.

Figure 2. Web Upload Portal



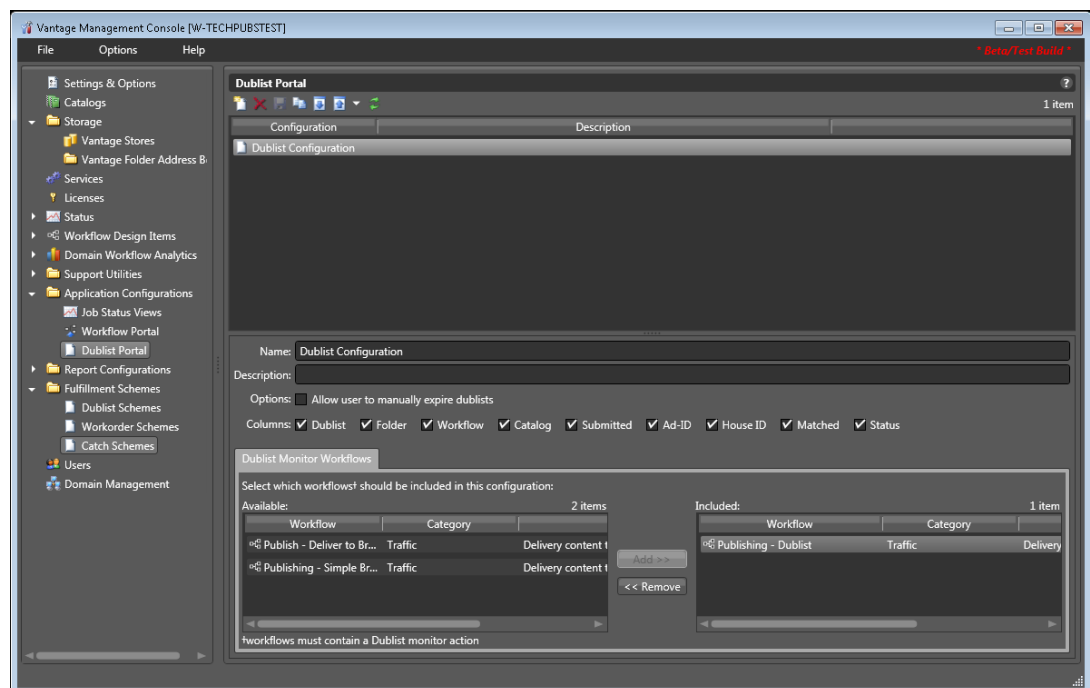
Management Console

Administration of the TrafficManager services, users, user interfaces, and licensing is done using the Vantage Management Console. The console provides the tools to accomplish these tasks:

- Set up user accounts in the Users panel.
- Make Catalogs for holding different TrafficManager projects.
- Create Job Status Views to allow users access to jobs associated with workflows.
- Create Workflow Portal configurations to allow users to browse the content inventory processed through TrafficManager.
- Create Dublist Portal configurations to allow users to view the status of dublists. (See [Configuring the Vantage Dublist Portal](#) later in this guide.)
- Implement Dublist Schemes containing parsing rules for various dublist types.
- Create Catch Schemes for the General Purpose Catch action if you want to customize your own catch server. (See [Configuring Vantage Catch Server Schemes](#) later in this guide.)
- Access many other tools for system administration, performance monitoring and analysis, reporting, etc.

Refer to the *Domain Management Guide* for Vantage Management Console details.

Figure 3. Management Console



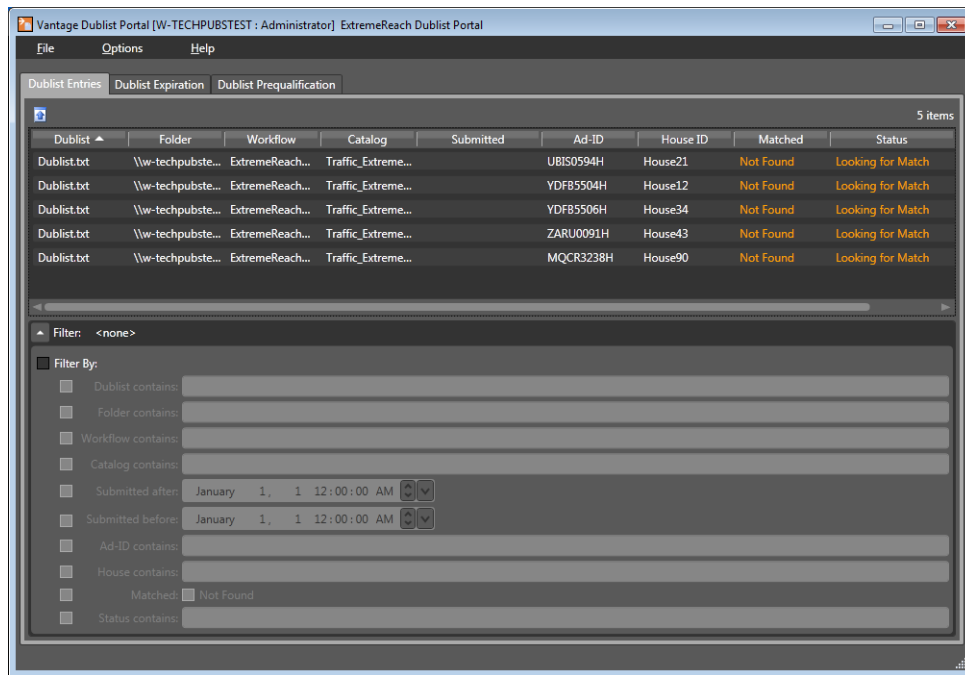
Dublist Portal

The Dublist Portal client program allows operators to monitor and manage dublists associated with Dublist Monitor workflows. Operators can perform these operations:

- Verify that dublists have been received and processed
- Expire dublists whose processing is complete
- Test new dublists against existing commercial inventory to see what ads are available for processing
- Identify missing commercials

The portal presents a list of TrafficManager dublists processed by Dublist workflows. Filters allow you to narrow or widen the list based on various criteria. The Dublist Portal includes a tabbed panel for viewing dublist expirations and expiring dublists immediately. Another tabbed panel allows you to pre-qualify dublists to see what will happen when you submit a dublist to a workflow.

Figure 4. Dublist Portal



Before it can be used, the Dublist Portal must be configured by an administrator using the Vantage Management Console (see the *Domain Management Guide* for details). Individual operators or groups of operators can have their own portal configurations created and saved for them, including these features:

- Name and description of the particular portal configuration
- Selection allowing the user to manually expire dublists
- Selections of information columns to include/exclude from the display
- List of permitted users who have access to the configuration
- List of dublist monitor workflows the particular portal configuration can access

Workflow Designer

Workflow Designer is the “drawing” space where you construct ingest workflows as well as media processing workflows of other kinds. A *workflow* in TrafficManager is a set of connected actions, each performing a specific task. Using the many available actions, you can construct workflows to perform automated media and file processing tasks:

- Ingest media from a catch server or the Upload Portal, transcode it, and send it to a catalog of available assets.
- Monitor a dublist folder, process incoming dublists, reconcile the dublist against the catalog of available assets, prepare the commercial for broadcast, deliver it, and notify an automation system that spots are ready for air.

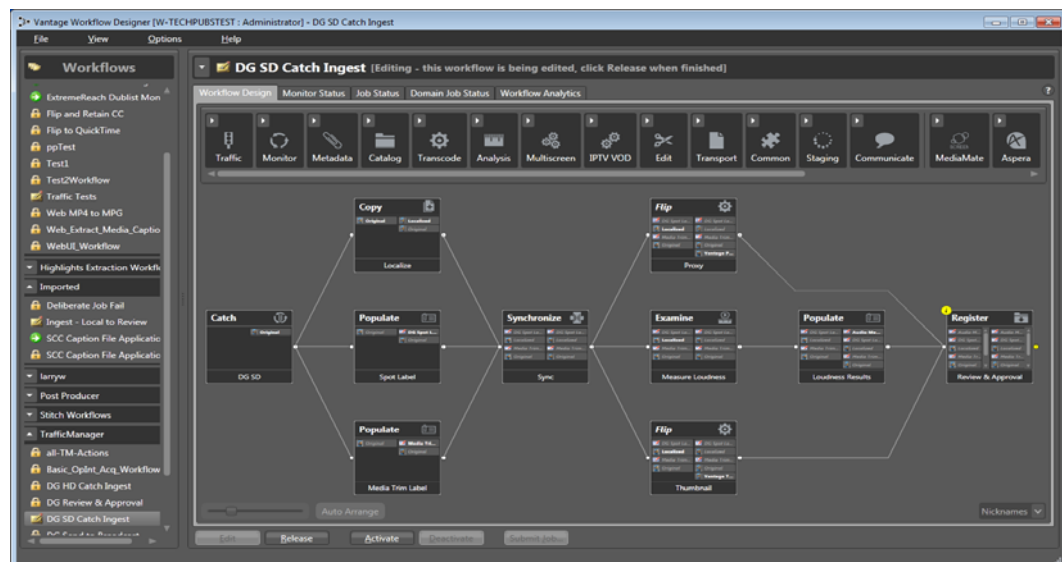
To get you started, pre-made workflows and professional services are available from Telestream, and of course, you can create your own workflows. You construct workflows in the Workflow Design workspace by dragging actions (Catch action, Copy action, Flip action, etc.) from the top menu bar. You then connect the actions to form a logical chain of tasks that are executed by Vantage services. Workflows are saved in the Vantage domain database and are executed by Vantage services.

To start a workflow, you click Activate. Workflows are executed as jobs, which are created and submitted automatically whenever a workflow action discovers a file to process, or when you click Submit Job to manually send a file to the workflow.

To edit a workflow after testing, Deactivate it, and click Edit. Then change the workflow. When you're done, click Release. When you are editing a workflow, others using Workflow Designer can view but not edit the workflow.

Once your workflows are activated, operators manage the running workflows and the files they process. In many cases, no operator intervention is required, but they can view job status using the Vantage Web Apps, check dublist status using the Dublist Portal, and review commercial inventory using the Workflow Portal.

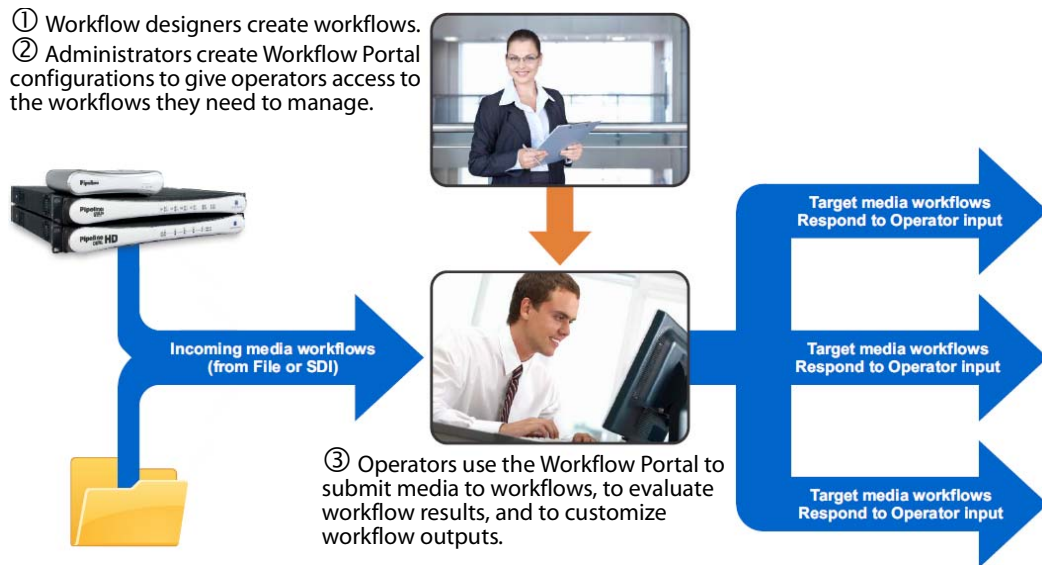
Figure 5. Workflow Design Workspace with Example Ingest Workflow



Workflow Portal

TrafficManager workflows are typically designed to automate commercial processing, but operator intervention and approval may be required during media processing. For example, an operator might examine proxies to verify commercial content, scrub and set trim points, and add missing metadata. The Workflow Portal, which comes in both desktop and Web versions, gives operators access to those capabilities. [Figure 6](#) shows how the Workflow Portal is implemented.

Figure 6. How Workflow Portal is Implemented

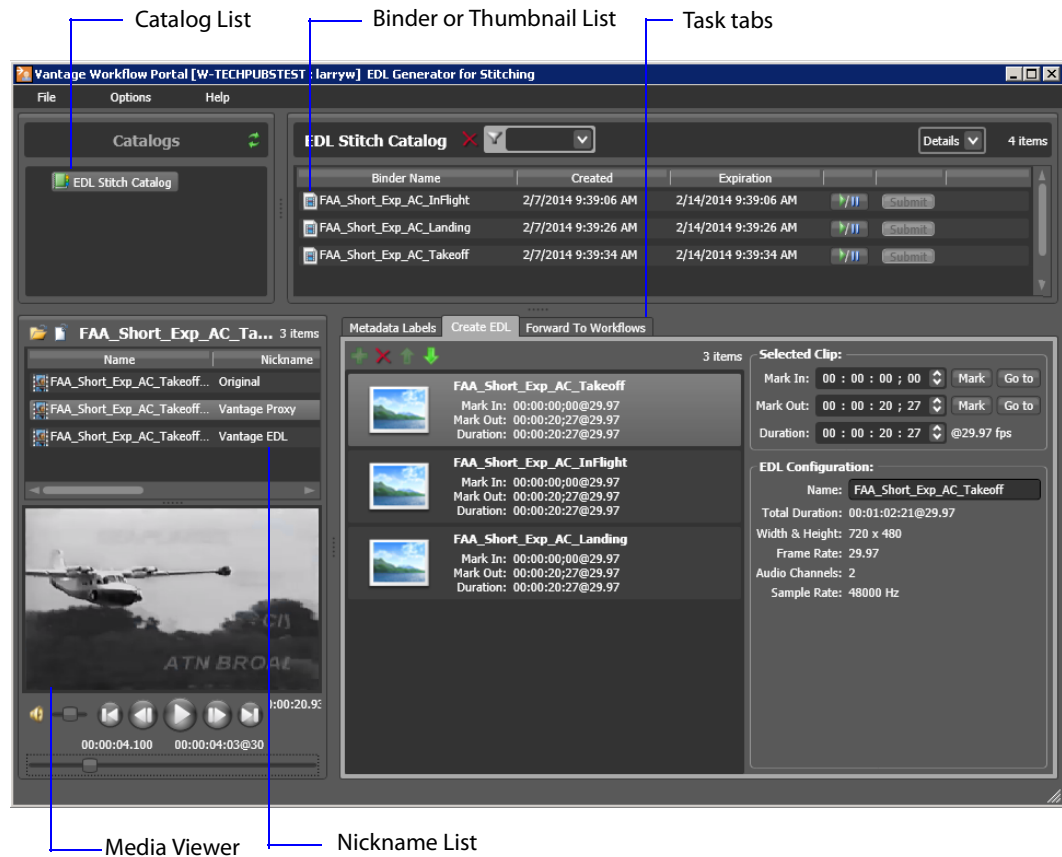


The Workflow Portal ([Figure 7](#)) provides these media processing capabilities:

- Browse Vantage catalogs for available assets:
 - Preview/scrub media
 - Verify that all required files are present
 - Review associated metadata labels
- Update metadata and submit media to other workflows for further processing:
 - Enter or edit metadata
 - Configure variables for use in the next workflow
 - Mark in/out trim points on an asset's timeline
 - Mark the media as approved or rejected

To implement Workflow Portal, an administrator must first use the Vantage Management Console to create portal configurations for operators based on their assigned responsibilities. See the *Vantage Domain Management Guide* for details.

Figure 7. Desktop Workflow Portal Window



When using the Workflow Portal desktop application, you can navigate through all the fields and controls by repeatedly pressing the Tab key. Use the Shift + Tab key combination to move through the fields in reverse order.

The following topics describe the components of the Workflow Portal:

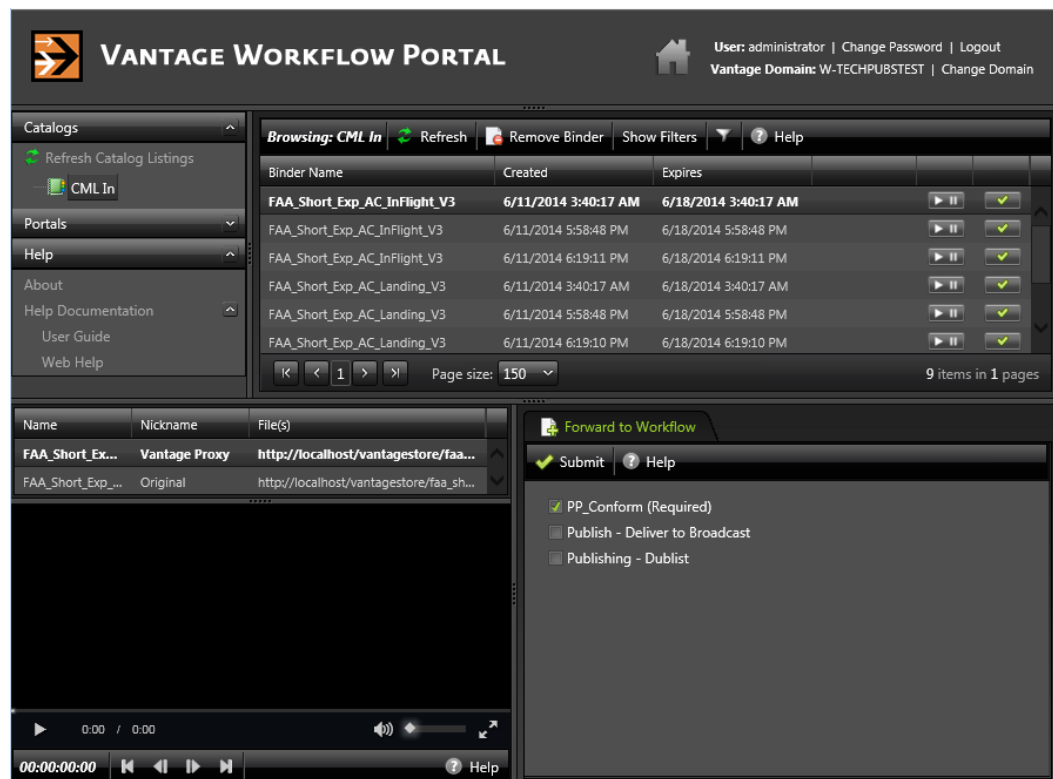
- Catalog list—catalogs contain binders which contain processed media files
- Binder list—binders contain all the files processed by associated workflows
- Program menus—menus for accessing domains, user accounts, help, etc.
- Metadata Labels tab—allows modifying and adding metadata
- Create EDL tab—includes tools for creating an EDL with mark in, out, duration
- Forward to Workflows tab—permits manually submitting binders to a workflow
- Media viewer—allows viewing proxy media files produced by workflows
- Nicknames list—lists non-proxy media file nicknames

Note that depending upon your Portal configuration, some components may be hidden from operators to streamline their experience. For details of Workflow Portal operation, see the *Using the Workflow Portal* chapter of the *Vantage User's Guide*.

Figure 8 shows the browser-based Web Workflow Portal commonly used by TrafficManager operators. The layout and functionality of the Web version is very similar to the desktop version, although not all features are available. Having a web client enables operators to manage workflows and jobs from remote computers without having to install a client application.

To access the portal, enter this address in your Web browser's address field: *http://[servername]/Vantage/Portal/* where the server name is the Vantage domain server. For details of Web Workflow Portal operation, see the *Using the Workflow Portal* chapter of the *Vantage User's Guide*.

Figure 8. Web Workflow Portal Window



TrafficManager Actions

Vantage TrafficManager includes special actions adapted specifically to managing commercial traffic, and it also makes use of other Vantage actions to create workflows that automate the entire process of ingesting, processing, and deploying commercials according to received dublists. These are the TrafficManager actions as well as general actions useful in the traffic management process:

- [Automate Action](#)
- [Catch Action](#)
- [Watch Action](#)
- [Receive Action](#)
- [Dublist Action](#)
- [Populate Action](#)
- [Copy Action](#)
- [Synchronize Action](#)
- [IPTV VOD Action](#)
- [Flip Action](#)
- [Register Action](#)
- [Notify Action](#)
- [Deploy Action](#)

Automate Action

The *Automate action*, which is executed by the Communicate Service, is similar to the Notify action. It contains system-integration extensions which are relevant to TrafficManager workflows, enabling you to save job data or other metadata to a file and interface with external automation systems. This capability ranges from writing XML-based material to a file system to direct integration with specific automation systems.

In TrafficManager applications, this action is useful to notify automation systems that a commercial has been processed and is available for air. For example, a Notify action can create text or CSV dublists and provide them to automation systems that are capable of processing dublists in that format.

Each extension has specific features which are detailed in the manual page for the extension.

Catch Action

A *Catch action* is a specialized origin action (an action used to start a workflow) for ingesting commercial media assets (including metadata) from catch servers. It uses the Traffic Service to regularly poll the catch server to discover new files in the directory and of the file type it is assigned to find.

When a new file is discovered, the Catch action ingests the file and associated metadata and submits a job to the workflow for processing. The Catch action also harvests all commercial metadata available and makes it available to the workflow. Typically, the workflow is an ingest workflow which localizes the media, populates a metadata label, creates proxies and thumbnails, and registers the asset in a Vantage catalog.

These are some of the catch servers with which TrafficManager integrates: Adstream, Centaur, Comcast, DG, DMDS, Extreme Reach/Mijo, Hula MX, Javelin, On The Spot, Pitchblue, Smartjog, SpotGenie, Spottraffic, Video Express. Additionally, the Catch action includes a General Purpose Catch selection that allows you to implement your own custom catch server using a Catch scheme you define in the Vantage Management Console.

Watch Action

A *Watch action* is an origin action; it uses the Monitor Service to regularly poll a target location (a directory, for example) on a device or file system (FTP, Windows network folder, etc.) to discover new files.

When a new file is discovered, the Watch action submits a job for the workflow which it is part of, for processing the file—usually, a media file. Watch actions typically are not used for local, national, or dublist workflows but may be used for promo ingest workflows or to ingest syndicated content from Pathfire through hot folders.

Receive Action

A *Receive action* is an origin action. Receive actions are designed to receive files from other systems: workflows, SDK-based applications, and Workflow Portal, for example. Files can be automatically submitted from a previous workflow using the Receive and Forward actions.

Dublist Action

A *Dublist action* is a specialized origin action for ingesting dublist files from a specified hot folder in TrafficManager applications. It uses the Traffic Service to regularly poll the hot folder to discover new dublist files, and will trigger new jobs when a dublist indicates that a commercial in the catalog is needed for air.

When a new dublist file is discovered, it is parsed by the specified scheme (created in the Management Console) and new entries are added to the master dublist maintained by Vantage. The Dublist action simultaneously polls the selected Vantage catalog for any media files which match entries in the master list. When matching files are found, the Dublist action submits a job to its TrafficManager application workflow for processing. Typically, the workflow is an on-air processing workflow which transcodes the media, optionally trims the clip, and alters audio for compliance. Then, it delivers the media to an on-air server and notifies an automation system.

Populate Action

A *Populate action* uses the Metadata Service to read and write to metadata labels. During ingest metadata labels will be added to received media and will generally include trim information, audio levels, file properties, and commercial metadata. The metadata labels can then be reviewed and modified by operators in the Workflow Portal. At any stage of a workflow, Vantage can extract information from labels using the Populate Action, allowing Vantage to use trim points during a transcode, or audio level information when creating the final broadcast asset.

Copy Action

A *Copy action* is executed by the Transport Service and is used to replicate a file from a source target (file system/device and directory) to a destination target (file system/device and directory). It typically performs this task by copying the file to the destination. In traffic applications, the Copy action copies the spot media from the catch server to the Vantage Store.

Synchronize Action

A *Synchronize action* is a connector action that simplifies workflow design. In workflows where there are many-to-many relationships (for example, 6 Flip actions connect to 6 Deploy actions, which connect to 6 Delete actions), instead of drawing connections between all of the actions, you can simply connect them to a common Synchronize action. There is no inspector for the Synchronize action, because no configuration is required.

IPTV VOD Action

The *IPTV Flip action* (in the IPTV VOD category) is included with the Cable / IPTV version of TrafficManager. IPTV VOD transcoding is designed for generating MPEG2 Transport Stream files and meeting multiplexing requirements. IPTV Flip actions are executed by the Cable Transcode Service, which can optionally run on a Lightspeed server for GPU-accelerated x264 encoding and video processing.

Flip Action

The *Flip action* is executed by the Transcode Service (which in turn utilizes the Telestream Transcode & Analysis Engine). Use the Flip action to transcode media to a new format, and save it as a file, using a prescribed codec profile. How you configure the encoder depends on the encoder you choose.

Register Action

A *Register action* uses the Catalog Service to add a binder to a catalog. In TrafficManager workflows, when a workflow originates from a Catch action, the Register action will

automatically set the binder name to the Ad-ID/ISCI code. The Dublist action uses the binder name as the commercial's unique identifier, so the binder name should be set to the Ad-ID/ISCI code. If the workflow does not originate from a Catch action, the media file name (without extension) will be used as the binder name by default. The Register action also allows a variable to be used to set the binder name.

When using the Register action for TrafficManager, consider using either the Overwrite or Rename Old conflict resolution settings. If Rename New is used, then the latest version of a spot will not be submitted by a Dublist action because the name of the binder will not match the Ad-ID/ISCI code.

Notify Action

A *Notify action* is implemented in the Communicate Service to save job information to a file, or to interface with an external system. You can configure a Notify action to produce an XML file, and you can also use it to invoke a Web Service.

This action is used to notify automation systems that a commercial is available. For example, a Notify action can create text or CSV dublists and provide them to certain types of automation systems that are capable of receiving dublists in that format. Alternatively, the Notify action may create and deliver a BXF message.

Deploy Action

A *Deploy action* is executed by the Transport Service to save specified files to a destination outside the Vantage domain. Unlike Delete, Move, or Copy actions, Deploy actions allow multiple files to be operated on simultaneously, and do not maintain a reference to those files in the binder after completion. This action is especially useful to move traffic output files to broadcast servers where they will await broadcast.

Bringing It All Together in Workflows

The flexibility of Vantage TrafficManager enables you to construct workflows that do all of your production tasks: ingest files, analyze them, add metadata, flip formats, notify an operator to approve files, and send them to distribution or broadcast. The following descriptions present typical workflows. For details, see the [Commercial Production Workflows](#) chapter. During installation, your Telestream representative will likely install workflows for you and may perform customization. As a result, your workflows should already be pre-built. Because your workflows may be different than the workflows in this manual, the following examples are for illustration purposes only.

Local, Regional, and National Ingest Workflows

Publishing workflows can automate ingesting media for local, regional, and national commercials.

- A Watch, Receive, or Catch action detects an incoming media file and passes its location and metadata on to the workflow. Catch is used for national workflows, Receive is used for local and regional workflows, and Watch is used for internal promos.
- A Copy action places the media in the desired commercial inventory location.
- Populate actions label the media and pass on metadata as variables.
- An Analyze action determines file properties and measures loudness.
- Flip actions transcode the media into proxy formats.
- A Register action registers the commercial in the desired catalog.

Review and Approval Workflow

If your process requires a person to review and approve each commercial, you can create a review and approval workflow or incorporate a review stage into a larger workflow. Typically, your workflows will include actions such as these:

- Populate actions to create a label that approves an Approval parameter to indicate whether the media has passed a review or not (true/false).
- A Workflow Portal configuration allowing the operator to review the proxy and metadata, and indicate whether or not the commercial is valid.
- Decide actions to forward the media to a Review catalog or a Ready-to-Air catalog depending on the Approval parameter setting.
- A Notify action, if the commercial does not pass inspection, to send email to the administrator indicating that a commercial did not pass review.
- If valid, the commercial needs to be registered into the inventory catalog so that the Dublist monitor action can publish it for broadcast or cable payout.

Dublist Processing and Publishing Workflow

Dublist processing employs a Dublist action to detect and parse dublists, and trigger jobs when the needed commercials are available in the catalog. Typically a dublist workflow will include these components:

- Dublist Schemes provide dublist parsing rules (set up in the Management Console).
- A Dublist action parses incoming dublists and triggers jobs when the needed commercials are available.
- A Flip action will typically convert the commercial to a broadcast, cable or IPTV format for play-out, correcting audio and trimming at the same time.
- The finished commercial will be delivered to on-air or ad insertion.
- A Notify action notifies an automation system when a spot is sent to the broadcast server for playout.

Conclusion

You've now been through a brief overview of TrafficManager, and you can see its power to automate commercial processing. You can create workflows to ingest media and dublists, examine and transcode the media, create proxies for previewing, and deploy to automation systems and broadcast servers. In the next chapter, you'll get a look at the Dublist Portal. The chapter after that one presents in-depth example workflows.

Commercial Production Workflows

The purpose of this chapter is to lead you through a series of TrafficManager workflows, starting first with simple building-block workflows and graduating to larger complete commercial production workflows.

These workflows are only examples and will vary considerably according to your specific commercial production requirements and in-house procedures. Where your commercial production practices vary from these examples, you can modify the workflows to meet your needs. These are the workflow topics presented:

- [Catalogs in TrafficManager Workflows](#)
- [Simplified Example TrafficManager Workflows](#)
- [Example TrafficManager System Workflows](#)

Note: Telestream Professional Services offers complete workflow consulting, system design and implementation solutions for Vantage and our other enterprise products, including TrafficManager systems. For information regarding professional services, contact your Telestream representative.

Catalogs in TrafficManager Workflows

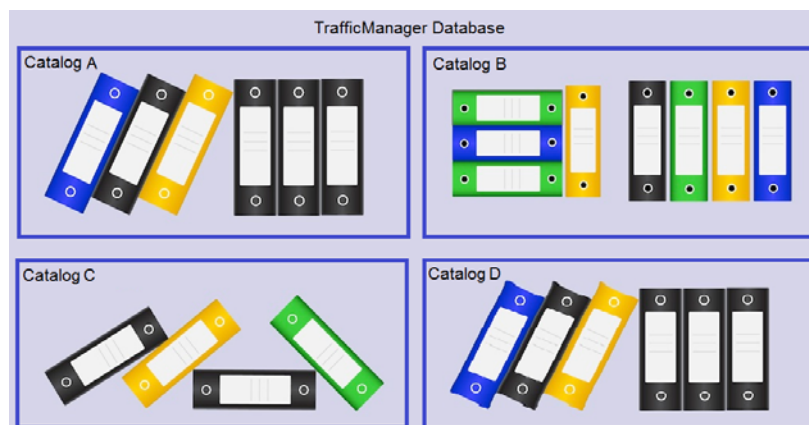
Catalogs are the mechanism Vantage TrafficManager uses to hold information about media and metadata beyond the time of a job so that they can be reviewed or passed to downstream workflows (Figure 9). Remember that each time a workflow executes, it creates a job, and information about all the parts of a job are gathered together into a binder. Catalogs are essential as the overall organizing principle for keeping together binders from a particular workflow or multiple related workflows. Catalogs can also contain folders to provide subcategories for storing binders.

In the context of TrafficManager, commercials are registered into catalogs to create commercial inventories that operators can manage using the Workflow Portal. The binder created when a job registers a particular commercial into a catalog is named using the Ad-ID/ISCI code for that commercial.

You can review the binder in the Workflow Portal and resubmit the job for processing at any time until it expires. This is useful when a workflow requires a review and approval cycle. In this case, the commercial is received and registered into a catalog during the first run of the job. Then the operator reviews proxies and metadata, makes any desired changes, and approves the commercial. Approval consists of setting a variable in the workflow to “approved” or “passed” and resubmitting the job to mark the commercial ready to air and possibly also move it into an “Approved” catalog.

Note: In order for the Dublist action to find and process dublists, the binder name in the catalog must match the Ad-ID/ISCI code exactly. If this rule is not observed in workflow design, the Dublist workflow will not find a matching Ad-ID/ISCI entry in the catalog, a job will not be submitted, and the Dublist Portal will show that a match is not found.

Figure 9. Catalogs and Binders Contain Job Components



Simplified Example TrafficManager Workflows

The following simple TrafficManager workflows can be thought of as building blocks for the more complex workflows that follow. In each case, the workflows shown are only examples. Your workflows will vary considerably depending on your processes. These examples are included in this section:

- [Example Workflow: Simple Ingest](#)
- [Example Workflow: Simple Review and Approval](#)
- [Example Workflow: Simple Dublist Processing](#)

Example Workflow: Simple Ingest

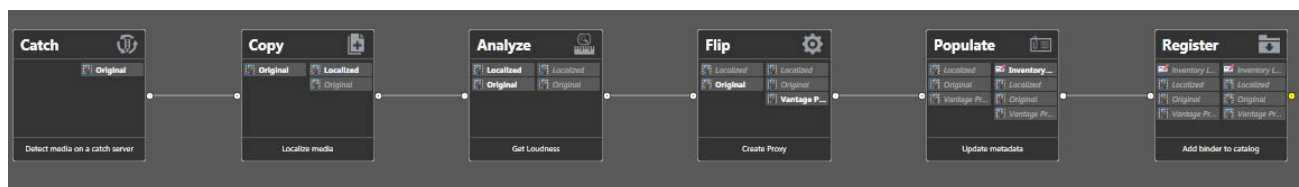
A simple ingest workflow is shown in [Figure 10](#). This workflow discovers media submitted to a catch server, creates an Inventory Label from metadata to describe the media, and registers the media with a catalog where it can be submitted to another workflow.

Here are the details:

- A Catch action monitors a catch server for incoming media and starts a job when new media arrives. This action also generates traffic variables such as these: ISCI, Agency, Advertiser, Product Name, Product, Category, Available Date, Expire Date, Trim Start, Trim End, Re-submitted.
- A Copy action copies the file to the local server.
- The Analyze action checks audio loudness for CALM Act compliance.
- A Flip action creates a proxy for previewing.
- A Populate action creates an Inventory Label using variables from the Catch action.
- The Register action registers the commercial in the catalog and a binder is created using the Ad-ID/ISCI code as the name. Any existing binders in the catalog with the same Ad-ID/ISCI can be automatically renamed with an appended version number by setting the conflict resolution to Rename Old. The expiration date is set to the Expire Date.

Media remains in the incoming folder and content information is available in the catalog but cannot be previewed in Vantage because no proxies are created. You can still preview by opening the original media in its folder (unless the media is stored on an FTP location, as with DG).

Figure 10. Simple Acquisition Workflow



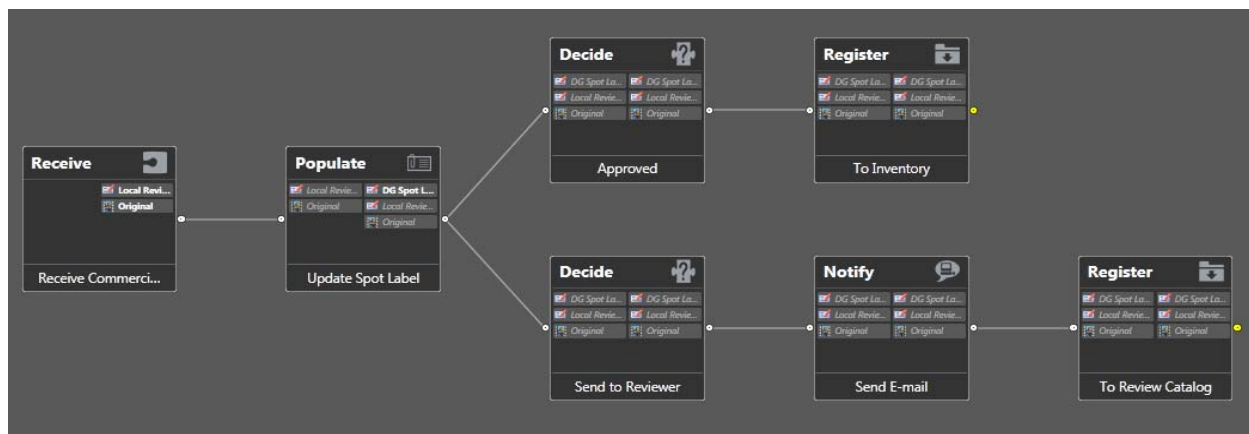
Example Workflow: Simple Review and Approval

Workflows can contain a review and approval stage to ensure a person reviews each commercial before it is aired. One method for doing this is to create two catalogs—a Review Catalog and an Approved Catalog. In the workflow, you use Decide actions to send the commercial to one catalog or the other (see [Figure 11](#)). These are the details:

- The workflow starts with a Receive action to accept a previously ingested commercial. A Receive action is used because it accepts jobs submitted from an external program, in this case, the Workflow Portal. The operator uses the Workflow Portal to receive, review, and resubmit a job.
- A Populate action sets a variable in the Spot Label or Inventory Label to true or false to indicate Approval Passed or Failed.
- Decide actions examine the approval variable and send the commercial to two separate Register actions that put it into the Review catalog if it needs to be reviewed (as indicated by the variable), or forward it to the Inventory catalog if it has been approved as ready for use.
- The Review branch includes a Notify action to email the reviewer that a review is required.

After reviewing and approving the commercial, the reviewer can reset the Approval variable in the label to Passed and resubmit the commercial to the workflow. This time the label causes the commercial to follow the Approved branch, and it is registered into the Approved Catalog where it becomes part of the ready-to-air inventory. A separate dublist workflow can pick it up and schedule it to air.

Figure 11. Review and Approval Workflow



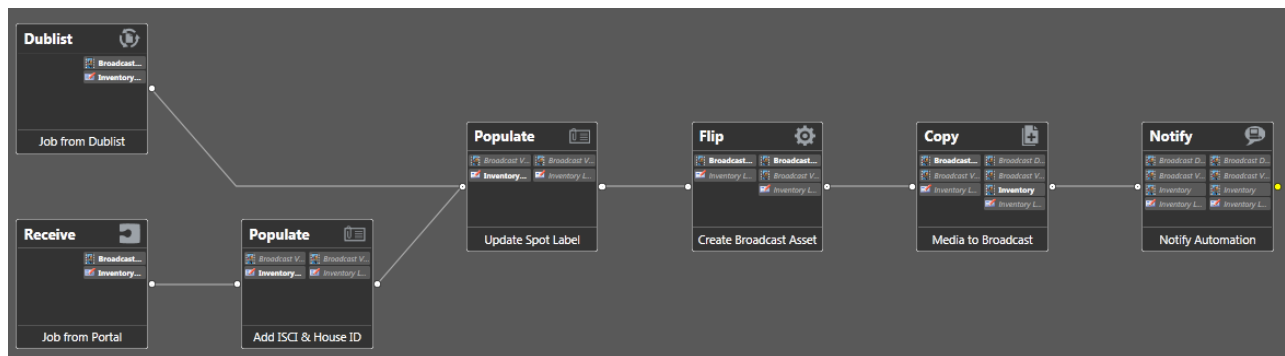
Example Workflow: Simple Dublist Processing

Dublist processing begins with Dublist Schemes that you create in the Management Console for different dublist formats. These schemes are selected in the Dublist action Inspector to parse incoming dublists and extract selected data. Other components you create in the Management Console include variables to hold traffic metadata, and catalogs and binders for receiving jobs spawned by workflows.

After the components are made, you create a workflow in the Workflow Designer to receive and process the dublists ([Figure 12](#)). Here are the details:

- The workflow starts with a Dublist action, which detects incoming dublists in the location you specify and parses them to extract pertinent data, such as Ad-ID/ISCI, House ID, media titles, durations and so on. The Dublist action correlates the dublist entries with previously ingested media.
- A Receive action allows an operator to forward a job containing previously ingested, previewed, and approved media to this workflow. The operator must supply an Ad-ID/ISCI code to pass to the automation system.
- The Populate action updates the metadata label to indicate to Workflow Portal operators that the spot has been sent to broadcast.
- A Flip action transcodes the media to broadcast format.
- A Copy or Deploy action forwards the media to the broadcast server.
- A Notify action forwards selected dublist information to the automation system to notify it that the media is present and ready to air.

Figure 12. Dublist Processing



Example TrafficManager System Workflows

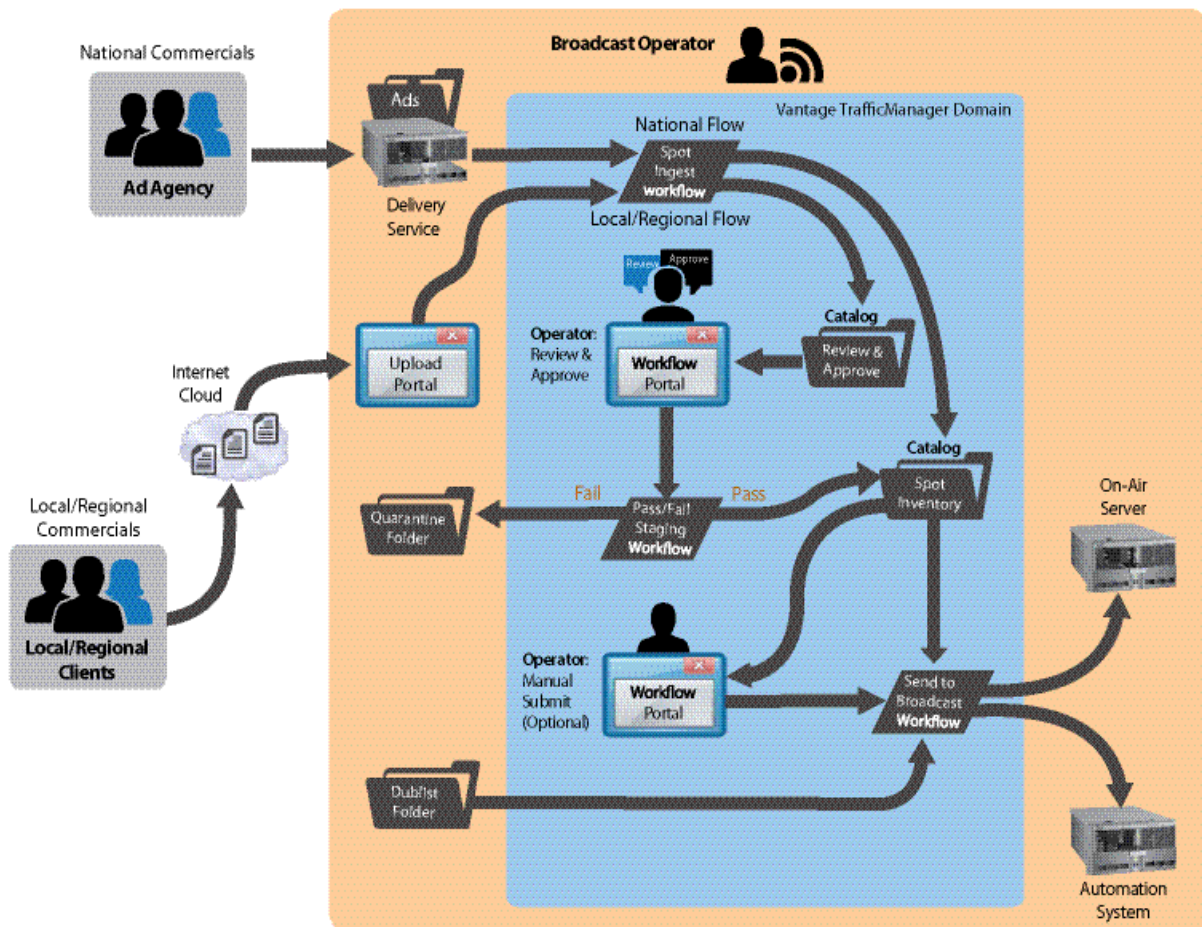
The following complex workflows present examples of complete TrafficManager systems you can assemble. Your workflows will vary depending on your processes.

Figure 13 illustrates typical national and local/regional workflows.

The processing flow in a typical national broadcast TrafficManager system begins when an ad agency submits a commercial on behalf of an advertiser to the broadcaster. The media is processed by the workflow to ensure it meets QC standards and gets logged into inventory and assigned to a catalog. A dublist gets parsed and its entries matched up with received media. From inventory, the media is sent to the broadcast server, and dublist information notifies an automation server that the media is ready to air.

A local or regional flow might be similar, but typically the Ad Agency is replaced by a direct advertiser (local/regional clients), and dublist processing may be omitted. As shown, a human operator usually previews and forwards approved commercials for on-air processing; this step is typically not included in a national system.

Figure 13. Typical TrafficManager Commercial Processing System for Broadcast



Typical Workflow Organization

TrafficManager commercial workflows generally come in two types:

- Ingest Workflows—ingest media, QC check it, review it (optional), and register it.
- Publishing Workflows—process dublist (optional), flip and deploy the previously ingested media to the broadcast or ad insertion server, and notify the optional automation system.

Essentially, these two workflow types compose the two halves of a complete processing system. That is, the Ingest Workflow usually feeds the Publishing Workflow—input feeds output. The workflows that follow provide two or three examples of each workflow type.

These examples are included in this section:

- [Example Workflow: Local/Regional Ingest to Review](#)
- [Example Workflow: Local/Regional Ingest Reviewed](#)
- [Example Workflow: Ingest National Spots](#)
- [Example Workflow: Ingest In-House Promo](#)
- [Example Workflow: Publishing Deliver to Broadcast](#)

Example Workflow: Local/Regional Ingest to Review

This workflow is a typical example of a local or regional ingest workflow that prepares media for a review and approval cycle. The workflow...

- Receives a media file uploaded via the TrafficManager Web Upload Portal.
- Populates variables with metadata from the Label.
- Localizes the file.
- Gets media information such as filename, framerate, aspect ratio, audio channels, etc.
- Performs QC: file validation, audio format and loudness, and sets trim points.
- Determines video format and transcodes into an appropriate proxy.
- Registers the media into a Review & Approval catalog to await operator review.

After this workflow executes and the operator reviews the commercial, the operator would typically resubmit the job to a publishing workflow such as the [Example Workflow: Publishing Deliver to Broadcast](#) to deliver the commercial for playout.

Figure 14. Example Workflow Local/Regional Ingest to Review



Example Workflow: Local/Regional Ingest Reviewed

This workflow is a typical example of a local or regional ingest workflow in which the media has already been reviewed and is now ready for processing into inventory (or requires notifying an administrator that it failed inspection). The workflow...

- Receives a media file from a Review Catalog.
- Determines whether the media passed review or failed. If failed, an administrator is notified to follow up. If passed, the spot label is updated and the media prepared for inventory.
- Determines the video format and aspect ratio and measures CALM Act loudness.
- Creates a mezzanine intermediate file for previewing before transcoding for broadcast.
- Registers the media into inventory.

After this workflow executes, the operator would typically preview the spot and then resubmit the job to a broadcast workflow such as the [Example Workflow: Publishing Deliver to Broadcast](#) to deliver the commercial for broadcasting.

Figure 15. Example Workflow Local/Regional Ingest Reviewed



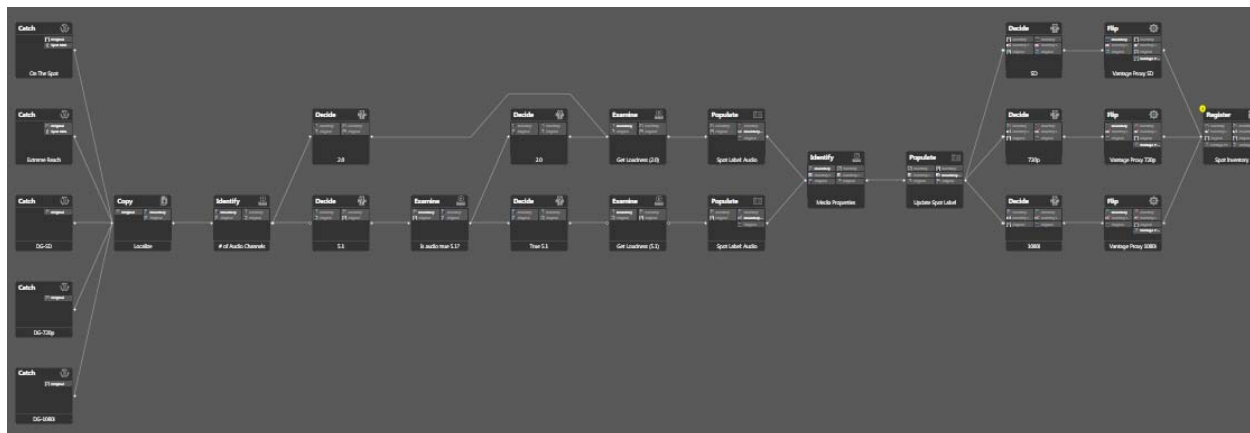
Example Workflow: Ingest National Spots

This workflow is a typical example of a national ingest workflow in which the media is ingested from a catch server, automatically QC checked, adjusted for CALM act loudness, and sent to inventory. The workflow...

- Ingests media from a catch server.
- Localizes the media.
- Determines the audio format and measures CALM Act loudness.
- Updates the spot label.
- Identifies media video format and properties.
- Creates a proxy for preview.
- Registers the commercial into inventory, and automatically sets the binder name in the catalog to the Ad-ID/ISCI code so that the Dublist action can find the media by Ad-ID/ISCI.

After this workflow executes, the operator would typically use the Workflow Portal to forward the asset to a publishing workflow such as the [Example Workflow: Publishing Deliver to Broadcast](#) to deliver the commercial for broadcasting. Alternatively, a Dublist action might submit jobs to the publishing workflow automatically based upon schedules in the traffic system.

Figure 16. Example Workflow Ingest National Spots



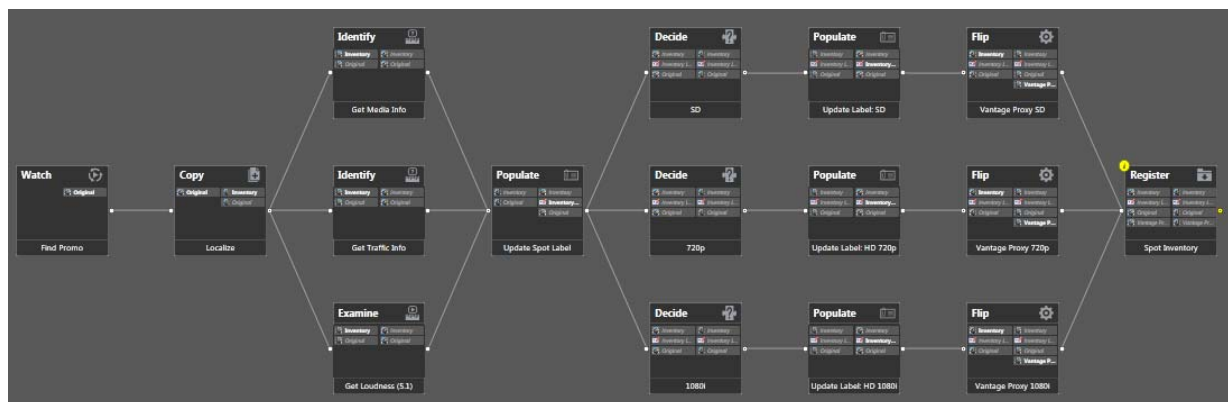
Example Workflow: Ingest In-House Promo

This workflow presents a typical example of an in-house promo, automatically ingested from an in-house server and registered into inventory. This workflow...

- Watches a folder on an in-house server and ingests incoming media.
- Localizes the media, placing it in the Local Store.
- Gets traffic metadata from the file name and creates required variables
- Measures CALM Act loudness.
- Updates the spot label.
- Determines the video format and creates a proxy.
- Registers the media into inventory.

After this workflow executes, the operator would typically resubmit the job to a broadcast workflow such as the [Example Workflow: Publishing Deliver to Broadcast](#) to deliver the commercial for broadcasting.

Figure 17. Example Workflow Ingest In-House Promo

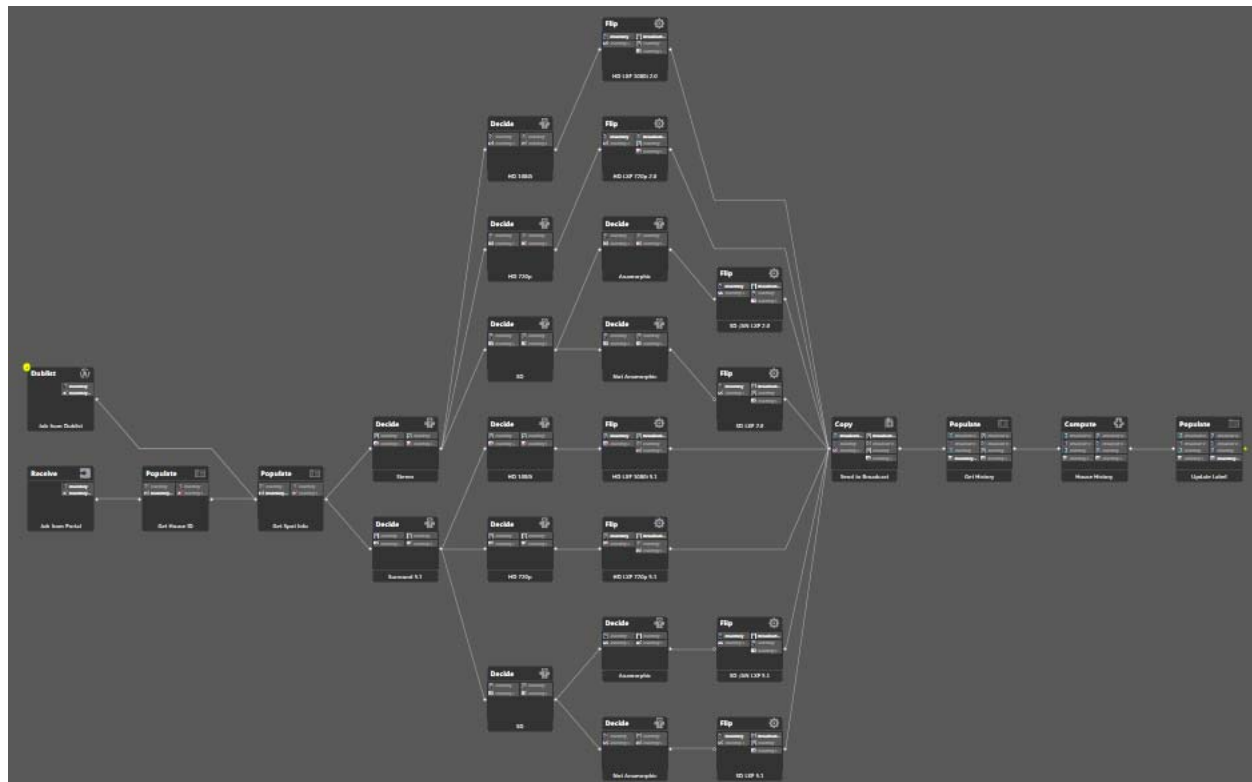


Example Workflow: Publishing Deliver to Broadcast

This workflow presents a typical example of the publishing half of commercial processing. Media entering this workflow has been ingested and registered into inventory by an ingest workflow, and this workflow prepares the media for broadcasting and places it on the on-air server. This workflow...

- Watches a folder for dublists, parses the dublists, and matches dublist entries with received media.
- Receives a submitted job containing ingested and (optionally) approved media.
- Trims, corrects audio, and transcodes the media for air and copies it to the broadcast server.
- Notifies the automation system that the media is ready to air.

Figure 18. Example Workflow Publishing Deliver to Broadcast



Using the Dublist Portal

The Dublist Portal is a client program which enables you to display and manage TrafficManager dublists processed by Dublist monitor workflows. Filters allow you to narrow the list of dublists displayed based on various criteria. Dublist Portal also includes a tab for viewing and managing dublist expirations, as well as a tab for pre-qualifying dublists to see the results that will occur when you submit a dublist example to a workflow.

Note: The Dublist Portal is configuration-driven. A Vantage administrator must create a Dublist Portal configuration in the Vantage Management Console before the portal can be used. Refer to the *Vantage Domain Management Guide* for instructions. Note that the Administrator should also create the Dublist fulfillment schemes, indicating what types of dub lists are supported (e.g.: CSV) and where the necessary metadata can be found (e.g.: "ISCI or Ad-ID found in column 3"). These will be used by the Dub List actions when processing incoming dublist files.

Note: In order for the Dublist action to find and process dublists, the binder name in the catalog must match the Ad-ID/ISCI code exactly. If this rule is not observed in workflow design, the Dublist workflow will not find a matching Ad-ID/ISCI entry in the catalog, a job will not be submitted, and the Dublist Portal will show that a match is not found.

The following topics introduce and describe the Dublist Portal:

- [Starting Dublist Portal](#)
- [Dublist Portal Overview](#)
- [Monitoring Dublist Entries](#)
- [Checking Dublist Expiration](#)
- [Pre-qualifying Dublists](#)
- [Dublist Portal Menus](#)
- [Troubleshooting Dublist Portal](#)

Starting Dublist Portal

To start Dublist Portal, do one of the following:

- Double-click its shortcut on your desktop
- If the shortcut has been deleted, click Start > All Programs > Telestream > Vantage > Dublist Portal.

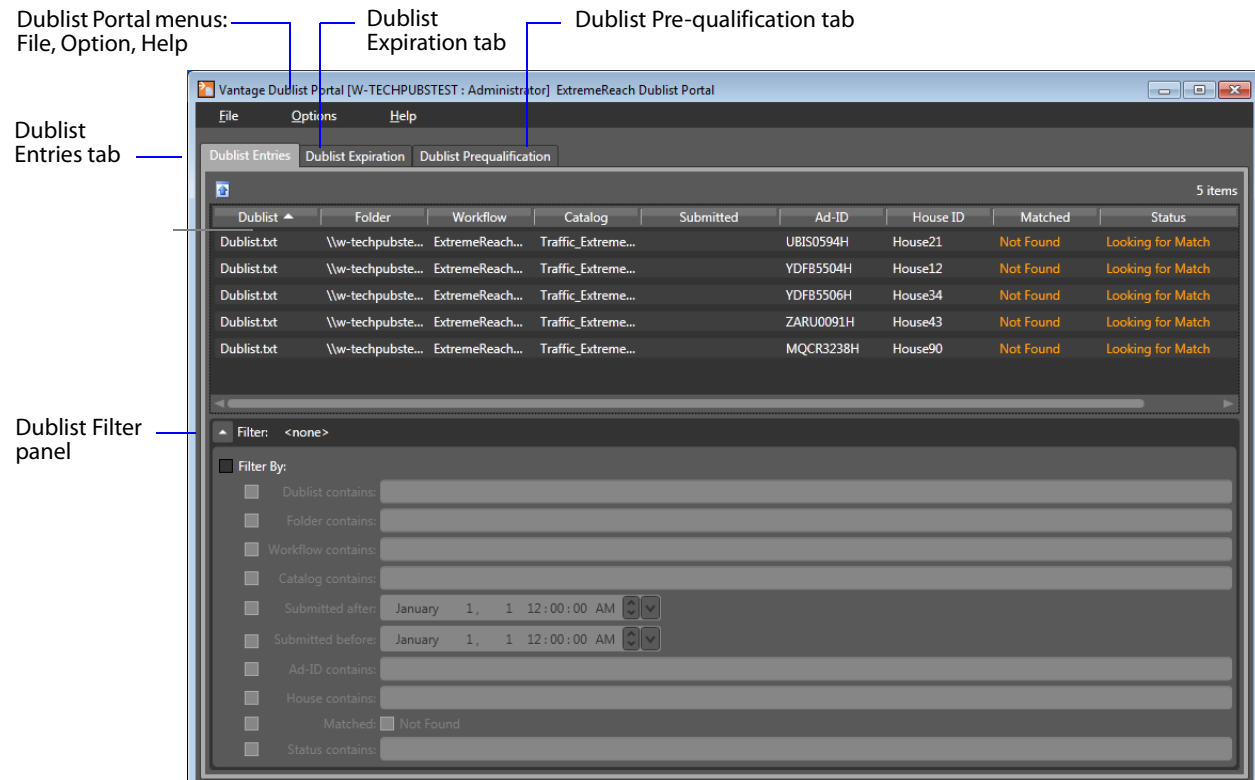
Next, select a domain and log in, then select a configuration.

Note: For information on managing Windows clients, including starting and stopping the program, logging into and changing domains, changing Vantage users and passwords, and selecting configurations, go to the Vantage User's Guide > Managing Windows Clients.

Dublist Portal Overview

The Vantage Dublist Portal main window is shown in [Figure 19](#) and described below.

Figure 19. Vantage Dublist Portal Display.



The Vantage Dublist Portal window consists of these parts:

- **Dublist Entries panel**
 - Displays a list of dublists corresponding to active Dublist Monitor actions.
 - Lists folder location, associated workflow and catalog (when submitted), Ad-ID or ISCI, whether a matching media file was found, and status.
 - Filters allow narrowing of dublists shown in the list.
- **Dublist Expiration panel**
 - Displays active dublist expiration dates and locations and allows dublists to be expired.
- **Dublist Pre-qualification panel**
 - Displays active Dublist Monitors and allows dublist testing to show the results of submitting a dublist to a dublist monitor—specifically, what spots are in the catalog inventory that would be auto-forwarded by submitting the dublist.
- **Dublist Portal Menus**
 - File allows changing domain, user, password, and reloading a configuration.
 - Options lets you add headers to CSV exports and show or hide tool tips.
 - Help offers access to several kinds of built in and online help.

Monitoring Dublist Entries

The Dublist Entries panel, which is the main entry screen of the Dublist Portal, shows a list of dublists discovered and processed by workflows containing properly configured Dublist monitor actions. Using this panel, operators managing the traffic system can verify that dublists are being correctly processed and matched up with associated media files (spots). The Dublist Entries panel provides this information about dublists:

- *Dublist*—dublist name or identifier
- *Folder*—location where the dublist is stored
- *Workflow*—workflow that processed the dublist
- *Catalog*—catalog containing the dublist and associated binders
- *Submitted*—date and time the dublist was submitted for workflow processing
- *Ad-ID*—an ID assigned to the media (spot), often this is an ISCI code
- *House ID*—an internal name or identifier assigned to the spot
- *Matched*—an indicator showing whether the dublist is matched with a media file
- *Status*—current status of the dublist

To reload a configuration after an administrator changes it, use the File menu Change/Reload Application Configuration selection.

To export a CSV file, click a file in the list, click the Export arrow, and browse to save the file.

Filtering Dublists

Checking the Filter box and the boxes of any desired filter criteria allows you to narrow the list to display only dublists matching the filter criteria. For example, you can filter by “contains” to find a dublist or group of dublists by their names, or you can filter to find lists processed between a selected pair of dates. Data entry fields are alphanumeric.

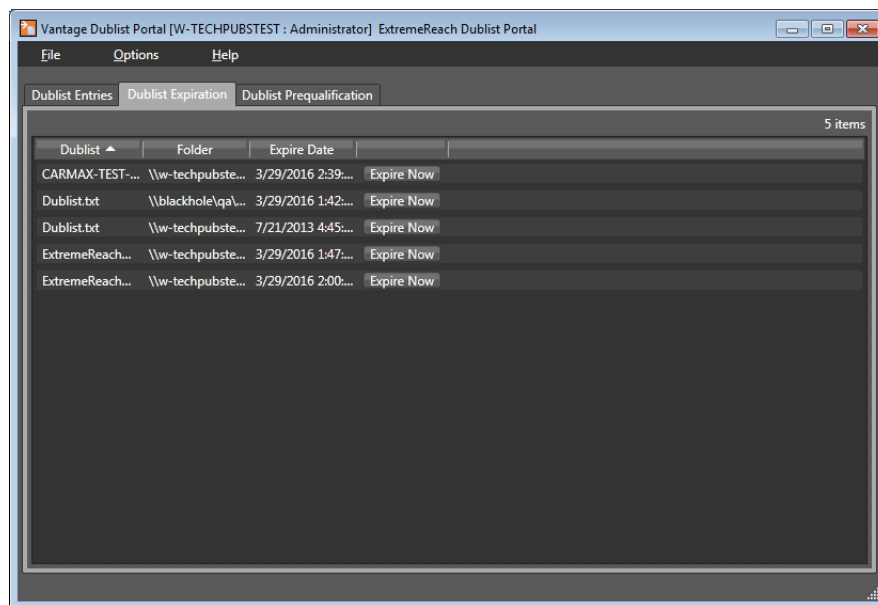
These are the dublist filter criteria:

- *Dublist contains*—select dublists matching all or part of the name
- *Folder contains*—selects dublists matching all or part of the folder name
- *Workflow contains*—selects dublists matching all or part of the workflow name
- *Catalog contains*—selects dublists by matching all or part of the catalog name
- *Submitted after*—selects dublists submitted after the specified date
- *Submitted before*—selects dublists submitted before the specified date
- *Ad-ID contains*—selects dublists by matching all or part of the Ad-ID
- *House contains*—selects dublists by matching all or part of the House ID
- *Matched/Not Found*—selects dublists that have been matched to media spots, or if Not Found is checked, selects dublists that have not been matched to spots.
- *Status contains*—selects dublists by matching all or part of their status

Checking Dublist Expiration

Clicking the Dublist Expiration tab opens a window showing dublists ordered by expiration date and time. The following figure (Figure 20) shows the Dublist Expirations panel. The list allows you to plan and manage the expiration of each dublist or group of dublists. The Expire Now button allows you to expire a list immediately, which will end all related processing.

Figure 20. Dublist Expirations Panel



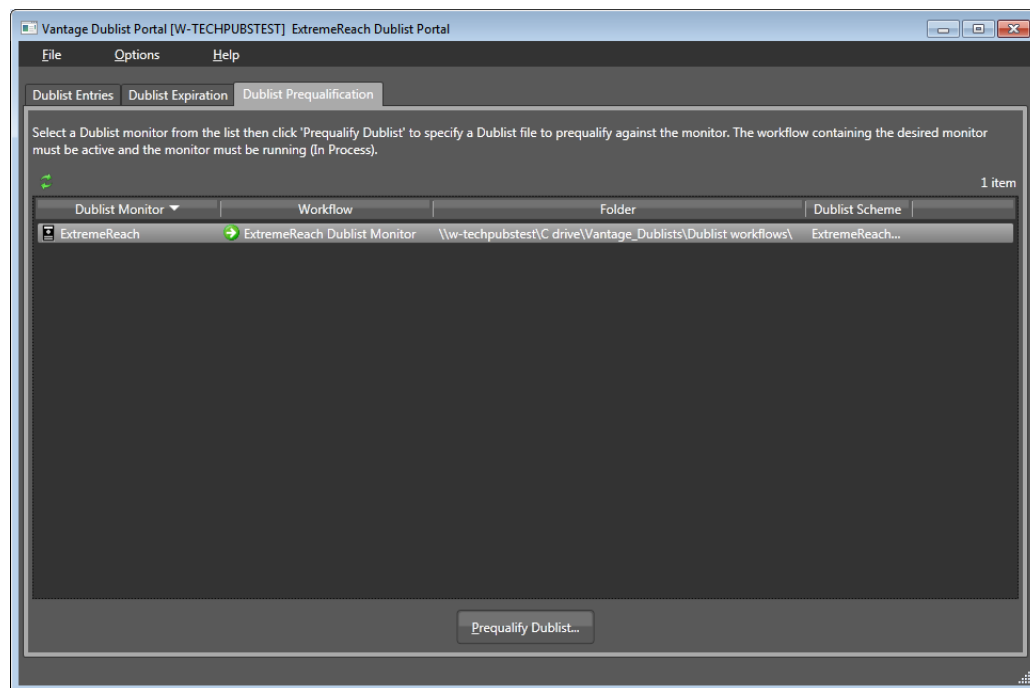
Pre-qualifying Dublists

Clicking the Dublist Pre-qualification tab opens a window showing a list of Dublist Monitors. This list and the Pre-qualify Dublist button allow you to verify that dublists of that type and format can be detected and processed by the monitor.

To pre-qualify a dublist type, first select a monitor by clicking on it in the list. Then click the Prequalify Dublist button to browse and select a dublist to submit to the monitor. Success or failure is indicated by a popup message.

The following figure (Figure 21) shows the Dublist Pre-qualification panel.

Figure 21. Dublist Pre-qualification Panel



Dublist Portal Menus

The Dublist Portal menus are File, Option, and Help. These menus are described below:

File Menu

The File menu includes these options:

- *Change Vantage Domain*—opens a Select Vantage Domain window, allowing you to select the domain you want to connect to. Connection Settings at the bottom allow you to enter a Login and Password for the selected domain database. (The default login and password are auto-filled and may be sufficient unless they have been changed by your administrator.) If your domain isn't listed, click *My Vantage Domain isn't listed* to open a field for entering the IP address of the domain server.
- *Change Vantage User*—opens the Vantage Domain Login dialog. Enter your Vantage domain username and password. (Note that Change Vantage User and Change Password are available only if you check Enable User Administration in the Vantage Management Console Settings & Options menu.)
- *Change Password*—opens a Set Password dialog, allowing you to change your password. Enter the new password in both fields and click OK. (This feature is available only if User Administration is enabled in the VMC.)
- *Change/Reload Application Configuration*—opens the Select Configuration dialog, allowing you to select a Dublist Portal configuration created using the Vantage Management Console. Click the configuration you want, and click OK.

Options Menu

- *Add Header to CSV Export Files*—when selected, adds a header row to exported CSV files.
- *Restore/Hide Tips & Warnings*—select Restore to turn on context-sensitive tool tips; select Hide to turn them off.

Help Menu

- *Contents*—opens the Vantage built-in documentation to the table of contents.
- *Index*—opens the Vantage built-in documentation to the index.
- *Search*—opens the Vantage built-in documentation to the search field.
- *Online Help*—opens the Vantage online (Web-based) help documentation.
- *About*—opens an About Vantage Dublist Portal dialog showing the version and data; click More to open built-in documentation or OK to close.

Troubleshooting Dublist Portal

When opening Dublist Portal for the first time, depending on the design of your network and the location of your workstation and Vantage server, the Domain login dialog may not display your domain. If this is the case, you can log in by using the name or IP address of the server.

When you change domains or configurations, you may also encounter these problems:

- No Configurations Available...

Dublist Portal displays this error when you log onto a domain where no Dublist Portal configurations are defined or where you do not have access to any of the defined configurations.

Contact your Vantage domain administrator.

- No session licenses available for this application...

The domain you logged on to is not licensed for running Workflow Portal, or available licenses are all in use. Dublist Portal will operate in unlicensed/demo mode until a TrafficManager license becomes available.

Contact your Vantage domain administrator.

- Problem communicating with database—could not find stored procedure Select-SessionsByExecution...

This error displays when Dublist Portal is attempting to display a list of configurations from the selected domain, but the version of the domain is not compatible with your client. Contact your Vantage domain administrator to upgrade the Dublist Portal program on your computer.

Configuring the Vantage Dublist Portal

This chapter explains how to use the Vantage Dublist Schemes feature of the Vantage Management Console to configure the Dublist Portal.

Note: Features in products for which you don't have a license are disabled and indicate that you need a license to use them.

The following topics are presented in this chapter:

- [Configuring the Dublist Portal](#)
- [Dublist Schemes](#)

Configuring the Dublist Portal

The Dublist Portal provides operators and managers with the ability to view and manage TrafficManager dublists. Using the the Vantage Management Console Dublist Portal configuration window, you can create *configurations*, which define the information an operator sees when using the Dublist Portal. In order for users to use the Portal, at least one configuration must exist.

You can create configurations in the Vantage Management Console Application Configurations and specify which users can use them and which workflows containing dublist monitors are included.

Note: For a comprehensive overview of the Dublist Portal application, see the *Vantage TrafficManager User's Guide*.

The following topics provide information on Dublist Portal configuration tasks:

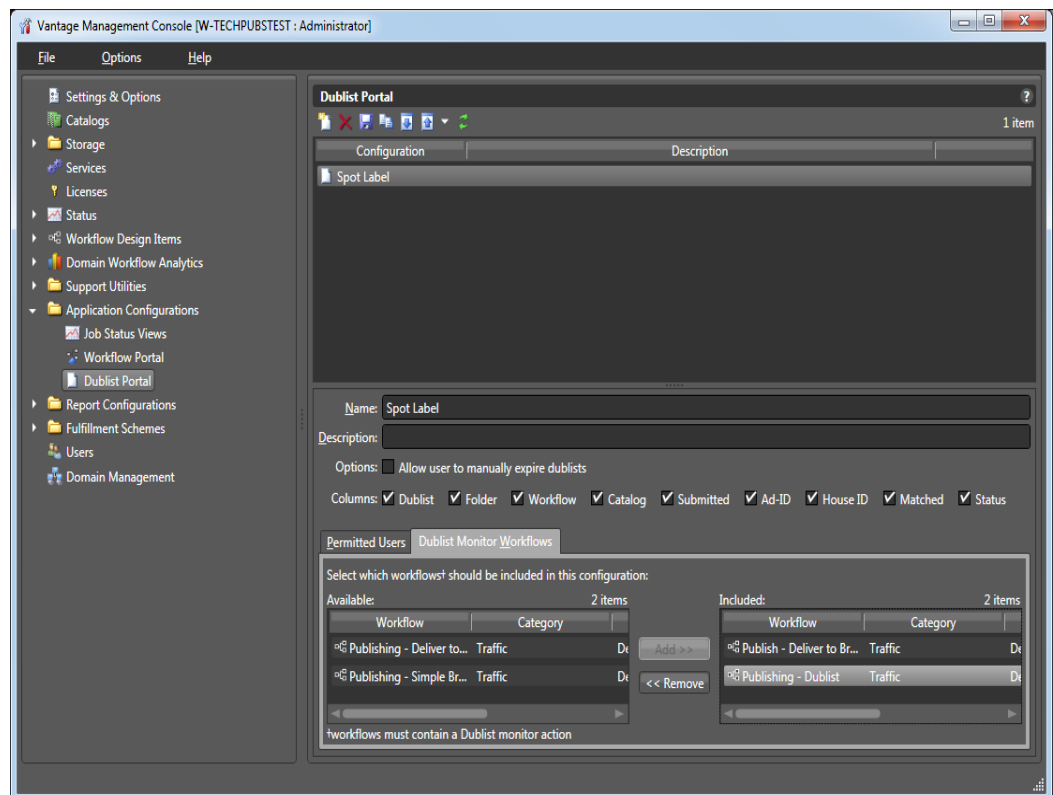
- [Displaying the Dublist Portal Configuration Panel](#)
- [Creating a New Configuration](#)
- [Renaming a Configuration](#)
- [Duplicating a Configuration](#)
- [Deleting a Configuration](#)

- [Setting Options and Choosing Columns](#)
- [Configuring Permitted Users](#)
- [Selecting and Changing Workflows](#)
- [Refreshing the Configuration List](#)
- [Exporting and Importing Configurations](#)

Displaying the Dublist Portal Configuration Panel



To view the Dublist Portal configuration window in Vantage Management Console, open Application Configurations in the side panel and select Dublist Portal. The Vantage Management Console displays the Dublist Portal configuration window shown in [Figure 22](#).

Figure 22. The Dublist Portal Configuration Window




Creating a New Configuration

To create a new configuration, do the following:

1. Display the Dublist Portal configuration window.
2. Click the Create a New Configuration button  (or right-click in the empty configuration list space and select New Configuration).
3. Enter a name in the Name field after the new configuration appears in the Configuration list.
4. Enter a description of the configuration in the Description text box (this is optional).
5. Click the Save button .



Renaming a Configuration

To rename a configuration, do the following:

1. Display the Dublist Portal configuration window.
2. Select the configuration to rename in the Configuration list.
3. In the Name text box, enter a new name for the configuration.
4. Click the Save button .


Duplicating a Configuration

To duplicate a configuration, do the following:

1. Display the Dublist Portal configuration window.
2. Select the configuration to duplicate.
3. Click the Duplicate button  (or right-click and select Duplicate).
4. In the Name text box, enter a name for the duplicate configuration.
5. In the Description field, enter a description for the configuration (optional).
6. Click the Save button .

Deleting a Configuration

To delete a configuration, do the following:

1. Display the Dublist Portal configuration window.
2. Select the configuration to delete. (Ctrl-click or Shift-click to select multiple configurations.)
3. Click the Delete button  (or right-click and select Delete).
4. When the confirmation dialog appears, click OK.

Setting Options and Choosing Columns

You can set Dublist Portal configuration options and columns below the Name and Description. The Columns selections enable you to include or exclude these columns: Dublist, Folder, Workflow, Catalog, Submitted, Ad-ID, House ID, Matched, and Status. The columns you select determine which columns and associated information are visible when the Dublist Portal displays this configuration. In this way, you can control what information the Dublist Portal operator sees.

To define which columns appear in a configuration, do the following:


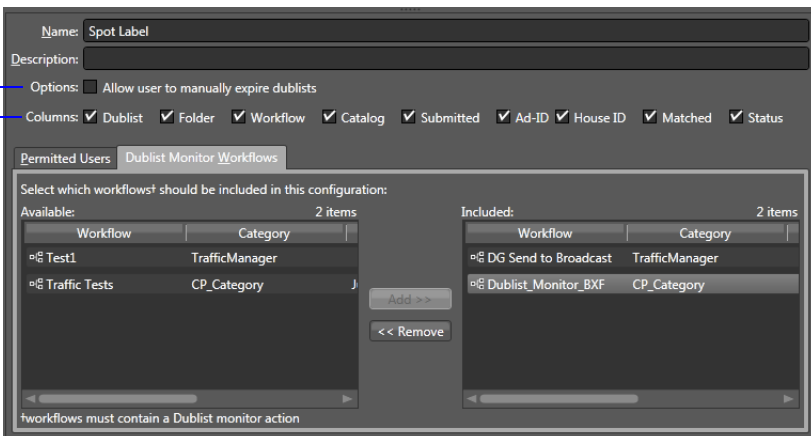
1. Display the Dublist Portal configuration window.
2. Select the configuration you want to modify from the Configuration list.
3. In the Options row, check the boxes for options you want to enable for this configuration, and uncheck to disable. The only current option allows the user to manually expire dublists in addition to any automatic expiration.
4. In the Columns row, check the boxes for the columns you want to display in this configuration, and uncheck the boxes for columns you want to hide.
5. Click the Save button .

Figure 23. Configuration Options and Columns

Options —
Columns —



Name: Spot Label

Description:

Options: ☐ Allow user to manually expire dublists

Columns: ☒ Dublist ☒ Folder ☒ Workflow ☒ Catalog ☒ Submitted ☒ Ad-ID ☒ House ID ☒ Matched ☒ Status

Permitted Users Dublist Monitor Workflows

Select which workflows[†] should be included in this configuration:

Workflow	Category
Test1	TrafficManager
Traffic Tests	CP_Category

Add >>

<< Remove

[†]workflows must contain a Dublist monitor action

Configuring Permitted Users

You can set a configuration to be available to individual users or all users (public).

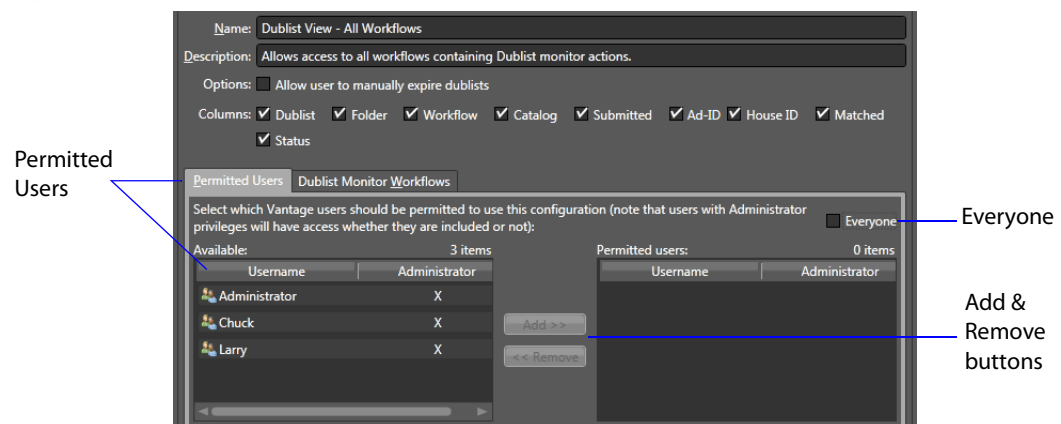
Note: Users with administrative privileges will have full access whether or not they are given permission.



To define which Vantage users can access a configuration, do the following:

1. Display the Dublist Portal configuration window.
2. Select the configuration you want to modify from the list.
3. Select the Permitted Users tab (Figure 24).

Note: The Permitted Users tab is available only if you select Enable User Administration in the Vantage Management Console Settings & Options.

Figure 24. Configuring Permitted Users



4. To make the configuration available to all Vantage users, do the following:
 - a. Check the Everyone (Public View) check box.
 - b. Click the Save button .
5. To make the configuration available to select Vantage users, do the following:
 - a. Clear the Everyone (Public View) check box.
 - b. In the *Available* pane, select the users who should have access, and click Add.
 - c. In the *Visible to user* pane, select the users who *should not* have access, and click Remove.
 - d. Click the Save button .

Selecting and Changing Workflows

To change the workflows for a configuration, do the following:


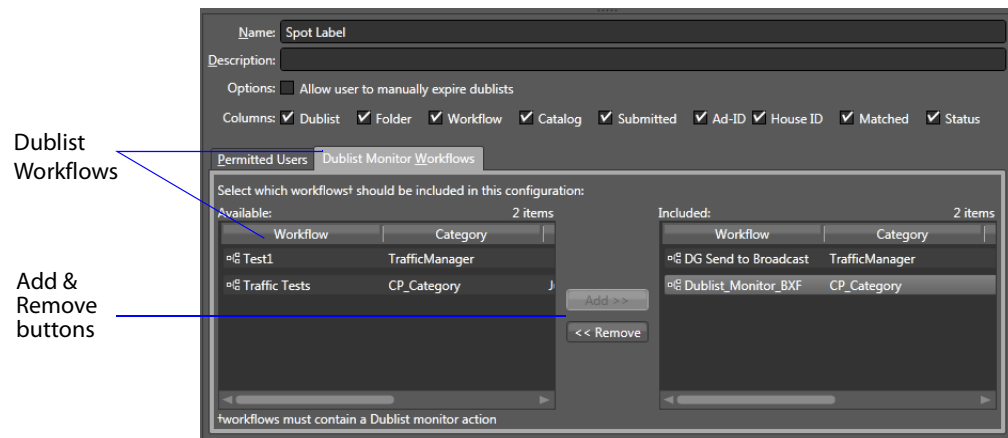

1. Display the Dublist Portal configuration window.
2. Select the configuration to modify.
3. Click the Dublist Monitor Workflows tab in the lower panel (Figure 25).
4. Select a workflow in the Available pane and click Add to add it to the configuration, or click a workflow in the Included pane and click Remove to delete it from the configuration.
5. Click the Save button .

Figure 25. Dublist Workflows




Refreshing the Configuration List

When you open the Dublist Portal configuration panel, the Vantage Management Console displays the current configurations list. If another administrator is making changes (such as adding Vantage users), you must refresh the display to see those changes. To refresh the display, click the Refresh button .

Exporting and Importing Configurations

Vantage allows you to export configurations to XML files, which you can then use to import the same configurations into another Vantage domain.


To export configurations, do the following:

1. Select the configurations to export. (Ctrl-click or Shift-click to select multiple views.)
2. Click the Export button  to export selected configurations (or right-click and select *Export*, or select *Export all* from the Export button drop down menu).
3. Use the file system dialog to save the exported configurations.

The default file name is the configuration name, but you can change the file name.

Note: Changing the name of the XML file does not change the name of the configuration in the XML file.

To import configurations, do the following:

1. Click the Import button .
2. Use the file system dialog to locate and select the configuration file to import, then click Open.

Note: If you try to import a configuration that is already in this Vantage domain, Vantage prompts you to cancel or confirm replacement.

Dublist Schemes

Dublist schemes, located in the Vantage Management Console Fulfillment Schemes folder, contain dublist parsing patterns you can create for each type of dublist you plan to use with Vantage TrafficManager. The schemes provide the patterns that Traffic Dublist actions use in a workflow for extracting particular data fields from dublists. You can set up a scheme to extract any data fields you need so that TrafficManager can find and process media files and include their metadata. For example, you might extract the Advertiser, Title, Ad-ID/ISCI code, and Duration and pass those along to the traffic workflow for further action.

The advantage of dublist schemes is that you don't have to set up the parsing pattern for the dublist each time you use a Dublist Monitor action in a workflow. Instead, you set it up once as a scheme in the Dublist Schemes panel and then specify that scheme by name in a Dublist action. Different types of broadcast automation systems use different dublist formats, so you can create a scheme for each type. The dublist files themselves can consist of comma-separated values (CSV), column-based files, and supported dublist databases.

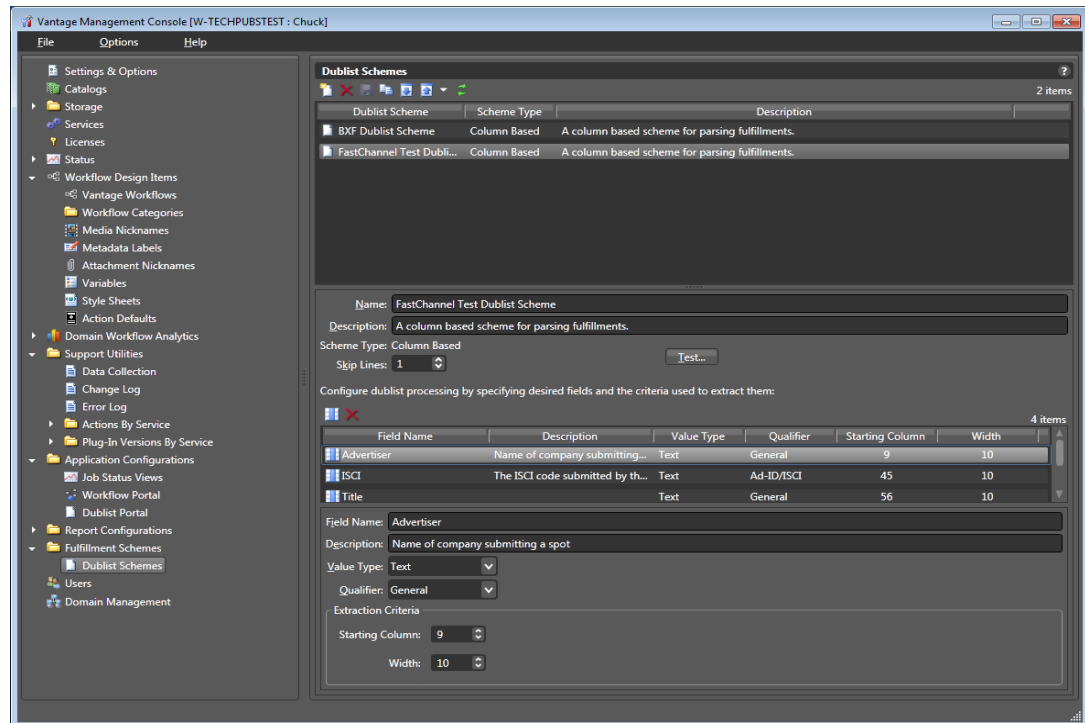
The following topics are explained as part of the Dublist Schemes functionality:

- [Displaying the Dublist Schemes Panel](#)
- [Creating a New Dublist Scheme](#)
- [Renaming a Scheme](#)
- [Duplicating a Scheme](#)
- [Deleting a Scheme](#)
- [Creating Dublist Scheme Fields](#)

Displaying the Dublist Schemes Panel


To view the Dublist Schemes panel, open Fulfillment Schemes in the side panel and select Dublist Schemes. The Vantage Management Console displays the panel shown in [Figure 26](#).

Figure 26. The Dublist Schemes Window




Creating a New Dublist Scheme

To create a new dublist scheme, do the following:


1. Display the Dublist Scheme window.
2. Click the *Create a new dublist scheme* button  (or right-click in the empty schemes list space and select New Dublist Scheme).
3. Choose Column-based or CSV in the dialog that appears, depending on whether your dublist is formatted in columns or with commas separating the values (CSV).
4. Enter a scheme name in the Name field.

When naming your dublist schemes, you probably want to use the type of dublist in the name, so a scheme for BXF dublists might be called “BXF Dublist Scheme” to make it easy to identify.

5. Enter a description of the scheme in the Description text box (this is optional).
6. Click the Save button .



Renaming a Scheme

To rename a scheme, do the following:

1. Display the Dublist Schemes window.
2. Select the scheme to rename in the scheme list.
3. In the Name text box, enter a new name for the scheme.
4. Click the Save button .


Duplicating a Scheme

To duplicate a dublist scheme, do the following:

1. Display the Dublist Schemes window.
2. Select the scheme to duplicate.
3. Click the Duplicate button  (or right-click and select Duplicate).
4. In the Name text box, enter a name for the duplicate scheme.
5. In the Description field, enter a description for the scheme (optional).
6. Click the Save button .

Deleting a Scheme

To delete a dublist scheme, do the following:

1. Display the Dublist Schemes window.
2. Select the configuration to delete. (Ctrl-click or Shift-click to select multiples.)
3. Click the Delete button  (or right-click and select Delete).
4. When the confirmation dialog appears, click OK.

Creating Dublist Scheme Fields

You can set up Dublist Scheme field options below the field Name and Description. These options determine which data columns, lines, and fields in a particular type of dublist are extracted and forwarded to TrafficManager and which are ignored. Typical data to extract from a dublist might include the advertiser, the media title, the Ad-ID/ISCI code, the length of the media in hours/minutes/seconds/frames, and so on. The following figure shows a typical dublist with data arranged in columns, each of which will be described and extracted by a field in your dublist scheme.


Figure 27. Typical Dublist

Order	Advertiser	Order Complete	Date	Type	Ad-ID	Title	Length
1494696	JCPenney	10/17/2012	21:17:49	Video	PJCP8375	WK39 Sale	00:00:15:00
1495125	FedEx	10/17/2012	23:37:27	Video	FJFX-6383	PREVIOUS	00:00:30:01
1495707	Dodge	10/18/2012	20:45:04	Video	CDA-7006B	ROADTRIP	00:00:30:00
1496038	Mercedes	10/19/2012	21:56:32	Video	DZNA-6347	JCKHAMMER	00:00:30:00
1495935	Advance	10/20/2012	1:47:27	Video	AAPT0751	LOW PRICE	00:00:30:00
1495935	Advance	10/20/2012	1:47:27	Video	AAPT0753	LOW PRICE	00:00:15:00

Field List

The field list shows the fields you create as part of a scheme. You can add fields as needed. Each field in a scheme is created and configured to extract data from a particular column in the dublist when a dublist is parsed. The data extracted from a dublist is published as a variable in the job.

Skip Lines—Enter the number of header lines to skip at the top of a file before dublist parsing starts.

Add New Field—Click Add Field  to add a new data field to extract from dublists.

Delete Field—Click Delete Field  to delete the highlighted field from the field list.

Field Name—Enter a name for the field.


Description—Enter a description of the field.

Value Type—Enter the type of value to search for and extract from the field. Available values are True/False, Integer Number, Size, Decimal Number, Date, Text, Path, Timecode, and Mail Address. See [Table 2](#) for descriptions of these values.

Qualifier—Set to the type of field being extracted: an Ad-ID/ISCI identifier, a House ID, or some other General qualifier.

Extraction Criteria, Starting Column—Set this to the number of the column in which to start extracting data. That is, counting from the left margin, how many characters to the right should the parser count before starting to extract data for this field?

Extraction Criteria, Width—Set this to the width of the data to be extracted. That is, counting from the starting column (above) how many characters to the right should the parser count before ending extraction of the field?

After entering your selections for each item described previously, click the Save button  to save the field and scheme.

The following table presents Value Type descriptions.

Table 2. Dublist Schemes Field Value Types

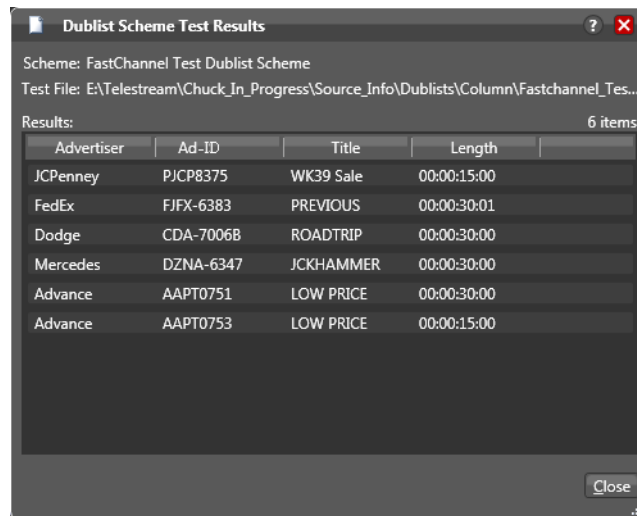
Value Type	Description
True/False	A true or false value
Integer Number	A signed 32-bit integer (decimals are rounded)
Size	A signed 64-bit integer (decimals are rounded)
Decimal Number	A double precision floating point decimal number
Date	A date specified according to local standards: MM/DD/YYYY or DD/MM/YYYY
Text	Any text string; use this when your data does not fit any other value type
Path	A valid Windows or UNC path. Must follow this pattern: <i>[Drive Letter]:\</i> Or this pattern: <i>\\Device\path</i>
Timecode	A video timecode value in this pattern: HH:MM:SS:FF@FR HH is hours, MM is minutes, SS is seconds, FF is the frame number, and @FR is the frame rate. Examples: 00:00:30:04 or 01:00:30:00@29.97 or 00:02:30:00@25. A frame rate of 29.97 is assumed if not specified.
Mail Address	A valid email address consisting of an @ sign with a string before and after—email@domain. Example: name@telestream.net

Testing Schemes

The Test button in the center of the Dublist Schemes window lets you test your schemes on actual dublists to verify that the scheme works correctly. To test a scheme, do these steps:

1. Select a dublist scheme in the scheme list. For this example, the dublist shown in [Figure 27](#) was used.
2. Press the Test button.
3. Examine the Test Results display for a clean output as shown in [Figure 28](#).
4. Adjust each field of the scheme until a test produces a satisfactory output.

Figure 28. Dublist Scheme Test Display



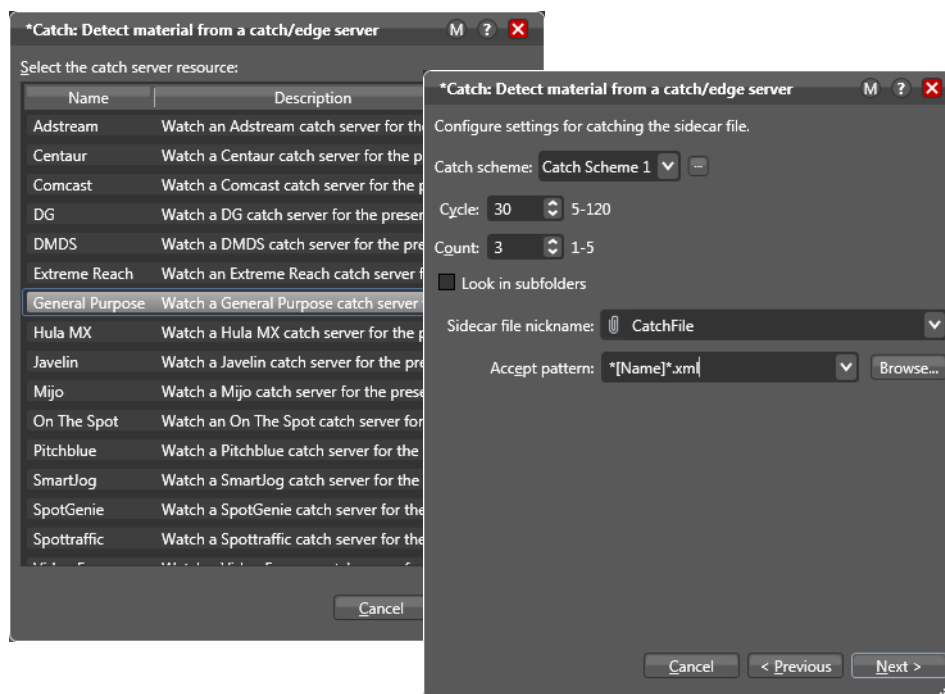
Advertiser	Ad-ID	Title	Length
JCPenney	PJCP8375	WK39 Sale	00:00:15:00
FedEx	FJFX-6383	PREVIOUS	00:00:30:01
Dodge	CDA-7006B	ROADTRIP	00:00:30:00
Mercedes	DZNA-6347	JCKHAMMER	00:00:30:00
Advance	AAPT0751	LOW PRICE	00:00:30:00
Advance	AAPT0753	LOW PRICE	00:00:15:00

Configuring Vantage Catch Server Schemes

This chapter explains how to use the Vantage Management Console Catch Schemes feature. The Vantage Catch action includes many common catch server definitions, as shown in the figure below. However, the Catch Schemes feature gives you the flexibility to create your own multiple custom catch server definitions. You can then access any scheme in the Workflow Designer Catch action inspector by selecting a General Purpose catch server and then selecting the scheme that you want.

A catch scheme allows Vantage to parse XML sidecar files accompanying ad media coming into a watched catch server and pass the sidecar metadata along with the media to other actions for processing in a Vantage workflow.

Figure 29. Workflow Designer Catch Action Inspector Screens



Configuring Catch Schemes

Using the the Vantage Management Console Catch Schemes configuration window, you can create *configurations*, which define the information users see when configuring a General Purpose Catch action.

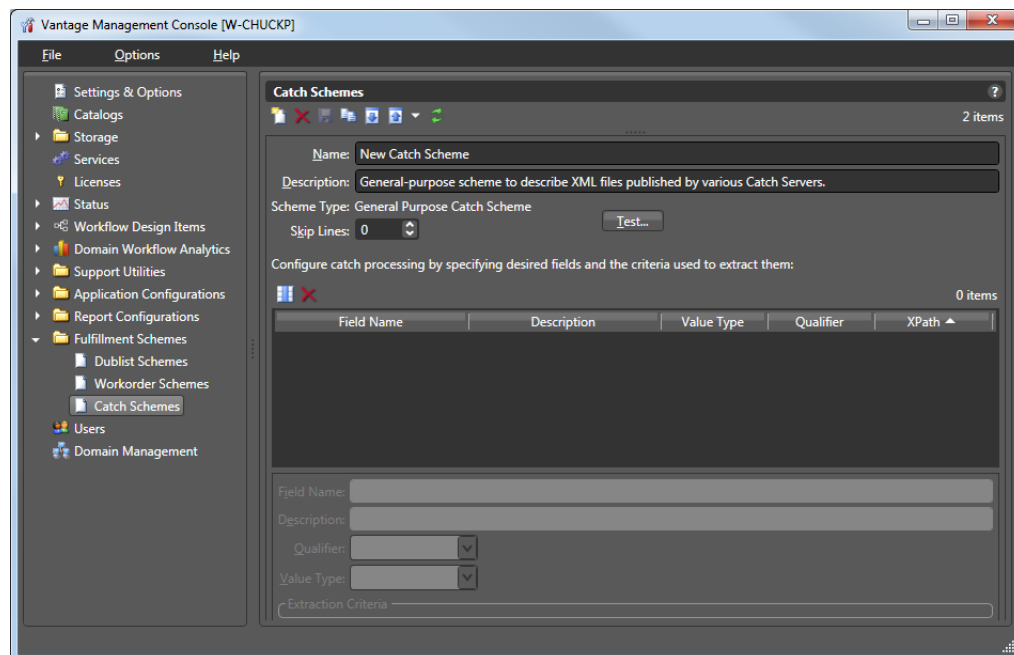
The following topics provide information on Catch Schemes configuration tasks:

- [Displaying the Catch Schemes Configuration Panel](#)
- [Creating a New Configuration](#)
- [Renaming a Configuration](#)
- [Duplicating a Configuration](#)
- [Deleting a Configuration](#)
- [Setting Options and Defining Fields](#)
- [Exporting and Importing Configurations](#)

Displaying the Catch Schemes Configuration Panel



To view the Catch Schemes configuration window in Vantage Management Console, open Fulfillment Schemes in the side panel and select Catch Schemes. The Vantage Management Console displays the Catch Schemes configuration window shown in [Figure 30](#).

Figure 30. The Catch Schemes Configuration Window




Creating a New Configuration

To create a new configuration, do the following:

1. Display the Catch Schemes configuration window.
2. Click the Create a New Configuration button  (or right-click in the empty configuration list space and select New Configuration).
3. Enter a name in the Name field after the new configuration appears.
4. Enter a description of the configuration in the Description text box (this is optional).
5. Click the Save button .



Renaming a Configuration

To rename a configuration, do the following:

1. Display the Catch Schemes configuration window.
2. Select the configuration to rename in the Configuration list.
3. In the Name text box, enter a new name for the configuration.
4. Click the Save button .


Duplicating a Configuration

To duplicate a configuration, do the following:

1. Display the Catch Schemes configuration window.
2. Select the configuration to duplicate.
3. Click the Duplicate button  (or right-click and select Duplicate).
4. In the Name text box, enter a name for the duplicate configuration.
5. In the Description field, enter a description for the configuration (optional).
6. Click the Save button .

Deleting a Configuration

To delete a configuration, do the following:

1. Display the Catch Schemes configuration window.
2. Select the configuration to delete. (Ctrl-click or Shift-click to select multiple configurations.)
3. Click the Delete button  (or right-click and select Delete).
4. When the confirmation dialog appears, click OK.

Setting Options and Defining Fields

You can set Catch Schemes configuration options and define fields for catch processing below the Name and Description. The fields area lets you add a new field for each node in the XML catch server configuration file that you want to include. The XML file and your catch server definition can include any fields you prefer, but these three fields are required for each catch scheme: Ad-ID/ISCI, Start Time, and Play Length.

To define fields in a configuration, do the following:








1. Display the Catch Schemes configuration window.
2. Select the configuration you want to modify from the Configuration list.
3. In the fields area ([Figure 31](#)), click the New Field button  to add a field.
4. Enter a field name and description, usually the name of a node in the XML file. (A node is text surrounded by pointed brackets, such as <ISCI_CODE>.)
5. Select a Qualifier from the drop-down menu to define the function of the field/node. At a minimum, you must include one Ad-ID/ISCI, one Start Time, and one Play Length field.
6. Select a Value Type for the field. This specifies what kind of data the field will contain, such as text, timecode, numbers, paths, etc.
7. Enter an XPath, which indicates the field/node's position in the hierarchy of the XML file. The XPath begins with the root node, followed by any additional nodes in the hierarchy, leading to the node being defined.
For example: /ROOT/Node_Level_1/Node_Level_2.
8. Click the Save button .
9. Click the Test button above the field area, and browse for the XML file you are using to define your catch server. If you successfully defined the fields, the Test Results window opens and shows the fields as headings with the correct data from the XML file under each heading, as seen in [Figure 32](#).

Figure 31. Field Configuration

Configure catch processing by specifying desired fields and the criteria used to extract them:



4 items

Field Name	Description	Value Type	Qualifier	XPath
 ISCI_CODE		Text	Ad-ID/ISCI	/SPOT_MONITOR
 PLAY_LENGTH		TimeCode	Play Length	/SPOT_MONITOR
 START_TIME		TimeCode	Start Time	/SPOT_MONITOR

Field Name:

Description:

Qualifier:

Value Type:

Extraction Criteria

XPath:

Field Options

Each field in a scheme is created and configured to extract data from a particular node in the catch server definition XML file when the file is parsed. The following options are available for defining a field:

Skip Lines—Enter the number of header lines to skip at the top of a file before parsing starts.

Add New Field—Click Add Field  to add a new data field.

Delete Field—Click Delete Field  to delete the highlighted field from the field list.


Field Name—Enter a name for the field.

Description—Enter a description of the field.

Qualifier—Set to the type of field being extracted: an Ad-ID/ISCI identifier, Start Time, Play Length, or a Variable.

Value Type—Enter the type of value to search for and extract from the field. Available values are True/False, Integer Number, Size, Decimal Number, Date, Text, Path, Timecode, and Mail Address. See [Table 3](#) for descriptions of these values.

Extraction Criteria, XPath—Set this to the path leading to the node defined by the field. Start at the root level and descend to desired node: /ROOT/Node1/Node2.

After entering your selections for each item described previously, click the Save button  to save the field and scheme.

Use the Test button to view the Test Results window, showing your catch server definition.

The following table presents Value Type descriptions.

Table 3. Catch Schemes Field Value Types

Value Type	Description
True/False	A true or false value
Integer Number	A signed 32-bit integer (decimals are rounded)
Size	A signed 64-bit integer (decimals are rounded)
Decimal Number	A double precision floating point decimal number
Date	A date specified according to local standards: MM/DD/YYYY or DD/MM/YYYY
Text	Any text string; use this when your data does not fit any other value type

Table 3. Catch Schemes Field Value Types

Value Type	Description
Path	A valid Windows or UNC path. Must follow this pattern: <i>[Drive Letter]:\</i> Or this pattern: <i>\\Device\path</i>
Timecode	A video timecode value in this pattern: HH:MM:SS:FF@FR HH is hours, MM is minutes, SS is seconds, FF is the frame number, and @FR is the frame rate. Examples: 00:00:30:04 or 01:00:30:00@29.97 or 00:02:30:00@25. A frame rate of 29.97 is assumed if not specified.
Mail Address	A valid email address consisting of an @ sign with a string before and after—email@domain. Example: name@telestream.net

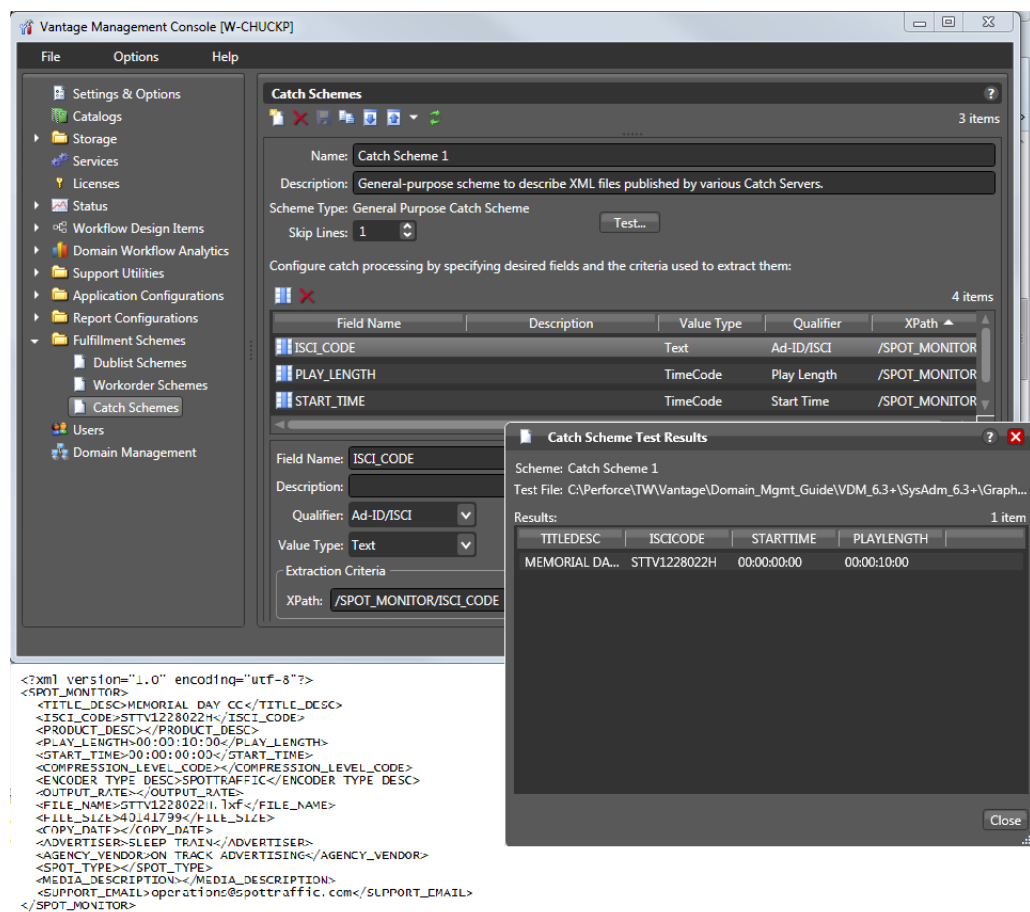
Testing Schemes

The Test button in the center of the Catch Schemes window lets you test your schemes on actual catch server definition files to verify that the scheme works correctly.

To test a scheme, follow these steps:

1. When you finish defining a catch scheme, press the Test button.
2. Examine the Test Results display for a clean output as shown in Figure 32. The figure shows the defined catch scheme, the XML data to be parsed, and the test results.
3. Adjust each field of the scheme until a test produces a satisfactory output.

Figure 32. Catch Scheme Test Display



Refreshing the Catch Schemes List


In the Catch Schemes window, the Vantage Management Console displays the current list of catch schemes. If another administrator adds or changes schemes, you need to refresh the display to see those changes.

To refresh the display, click the Refresh button.

Exporting and Importing Configurations

Vantage allows you to export catch scheme configurations to XML files, which you can then use to import the same configurations into another Vantage domain.


To export configurations, do the following:

1. Select the configurations to export. (Ctrl-click or Shift-click to select multiple views.)
2. Click the Export button  to export selected configurations (or right-click and select *Export*, or select *Export all* from the Export button drop down menu).
3. Use the file system dialog to save the exported configurations.

The default file name is the configuration name, but you can change the file name.

Note: Changing the name of the XML file does not change the name of the configuration in the XML file.

To import configurations, do the following:

1. Click the Import button .
2. Use the file system dialog to locate and select the configuration file to import, then click Open.

Note: If you try to import a configuration that is already in this Vantage domain, Vantage prompts you to cancel or confirm replacement.

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