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1

OVERVIEW

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Introduction

Workflow: Operational aspect of a work procedure; task structure and relative order, synchronization, information flow, and tracking.

The WatchPoint Content Management System (CMS) is a content management and **workflow** processing system. The system provides a centralized location where users can view and manage information associated with content delivery to multiple platforms in multiple formats with different metadata. The infrastructure includes a complete workflow system, resource management, metadata management, file management, site management and rules engine.

Architecturally, the system is compartmentalized, allowing customers to choose which features will be enabled via licensing. Enabled components are integrated to appear as a single application.

System Overview

The CMS system is a collection of components. Each component is accessible using Web interfaces.

Content Management

Title: Describes and references the content.

The Content Management component manages the ingest and storage of the metadata and related content files. This enables the association of **title** assets with the image and video assets, updating of the central library, and file location management and distribution history.

Content Planning

Partners: Entity from which a customer receives an asset or to which a customer distributes an asset.

Content Planning involves the management of third-party content source and distribution **partners** and their content movement. Examples of Content Planning work include tracking content ingest and distributing titles by schedules, as well as the reconciliation of expected content against received content. To perform work on behalf of third-party entities, CMS employs the concept of the **job**, which is a set of parameters that can define and schedule the related processes.

Job: Determines when and how work orders are executed to prepare titles for distribution.

Workflow Management

Tasks: Actions within a work order template. These can be automatic or manual.

Workflow management is comprised of rules that trigger processing and process parameters that are performed by customizable XML-based templates. WatchPoint uses customizable XML-based workflow templates to define the process that is being managed. Templates define the process that is being managed through specified parameters and contain all the **tasks** in the order needed to complete the specific process. Templates are ingested into CMS and used as a basis to create work orders. A WatchPoint system can be designed to have one or more templates. For example, a template could be designed to handle particular asset types (e.g., movie or trailer) or for delivery to different platforms (e.g., VOD or mobile).

Resources: *External systems or entities that perform the workflow process.*

Resource Management

WatchPoint manages the multiple **resources** that perform the various tasks defined in the workflow process. Examples of such resources are asset management systems, transcoders, encoders, ad insertion systems, human personnel, and distribution systems. These resources can be Ericsson systems, third-party systems, in-house systems, and users. WatchPoint interacts with these resources through open interfaces. This component also notifies the user and oversees the completion of any manual tasks.

User tasks can be a designed part of the process or a necessary override to an external step, allowing the work to move forward.

Queues

Work orders waiting for a resource to fulfill a process or task are placed into a queue during the workflow process. Queue management is necessary to ensure that started processes are completed in the sequence and manner specified. To expedite a process based on changing needs, the system allows users to view current queue status for the various resources in use and manipulate the standings as needed.

Workflow Process Examples

Examples of workflow processes include:

- Asset Arrival/Ingest – The system records the asset arrival and delivers the file as needed.
- Content Processing – Using input parameters, such as target formats, the workflow system manipulates and transfers the content as required. This can include encoding, transforming, title association and/or creation, and transfer to specific content locations.
- Metadata Processing – The system validates and applies target metadata specifications.
- Title Creation – Receipt of a title that has not yet been defined internally can cause a title to be created automatically (for example, if the title has been submitted by a trusted provider) or can trigger a work order calling for a human resource to complete the task.

Rules Engine

The rules engine allows the initiation of a rule or rules based on one or more events. The rule checks the associated title against a specified filter and input parameters that, if matched, will cause the corresponding template and subsequent work order to be performed the specified functionality.

There are four types of rules; Validation, Normalization, Content Processing, and Targeting. [See “Defining Rules” on page 75](#)

Monitoring

The CMS user interface is browser-based and includes a dashboard summary and portals into the various components. A menu based on function is also available. The CMS home page includes any Content Planning alerts to ensure that expected files have arrived successfully and pitch schedules executed completely. Pending user

tasks are also listed to notify the user immediately after logging on that action is needed.

Site Management

The Site Management component manages and tracks the distribution and deployment of titles to multiple sites from a central location. It also allows localization of titles based on the properties of the site. The site may represent regional sites or different platforms. The localization of metadata can then target the data for a particular region for items such as pricing or rating, or for the downstream platform, which could be as MSTV 2.0, CableLabs 1.1, or Mobile metadata format, to name a few.

Content Class

Content class categorizes titles within a given domain.



CMS 1.5 only supports the video domain.

Content Class is used to define default values for metadata fields, drop down list options, and locked fields. Some content class examples include Movie, News, Music Video, Series, and Post Roll. When a user creates titles, the content class provides a template with some of the fields already populated.

Content Class Management

Content class creation and updates are managed from the CMS user interface. CMS Content Class Management enables customers to create their own set of content classes, specify default values, and lock fields.

2

GETTING STARTED

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About This Document

This user guide provides information about working with the WatchPoint Content Management System (CMS). WatchPoint supports configurable column headings of results. This enables customers to include custom fields used in their specific workflow. Sample pages used in this document might vary from your graphical user interface (GUI). These differences are limited to results data displayed and do not affect page layout, system functionality, or methods of operation.

Using This Documentation

This section explains conventions used to highlight application features within the document:

- Buttons representing commands and functions are in **bold** type.
- Fields, column headings, and areas requiring user input are in *italic* type.
- Main menu and submenu entries are in **blue blue** type.
- Links to content in the document, URLs, and Web pages are [blue and underlined](#).

Important terms and their definitions are located within the side margins of the main text.

The first section of the user guide contains general information about the typical functions performed by the system. The main body of the document contains information about how to use the system functions.

Points that require specific attention are highlighted as shown:



User tips have a light bulb graphic to indicate a suggestion or idea.



Notes indicate an item or situation that merits special attention. These items are largely informational or explanatory.



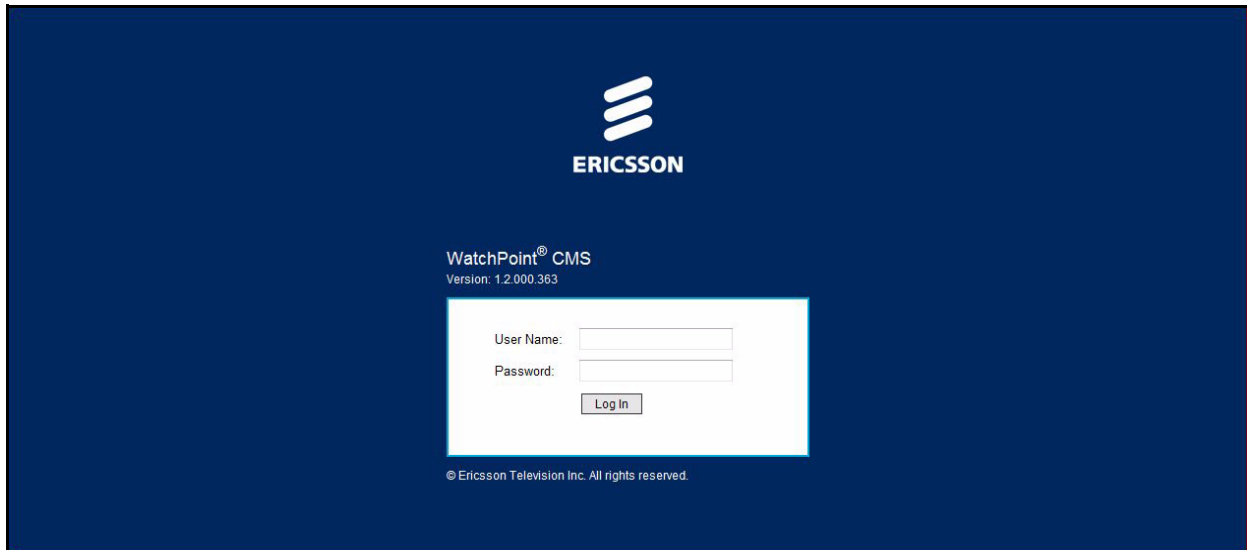
Cautions or warnings describe situations or behaviors that can produce negative results. These represent the items that, if ignored, can potentially have undesired effects on the system.

Accessing the Interface

The CMS system is a browser-based solution. To access the GUI, enter the provided URL in the Web browser and press **Enter** on the keyboard.

The login page displays. The WatchPoint product contains a role-based security framework that requires that a user be defined and active to access the GUI.

Figure 2.1: Login screen



After your user credentials are verified, the home page is displayed.

Becoming Familiar with the Environment

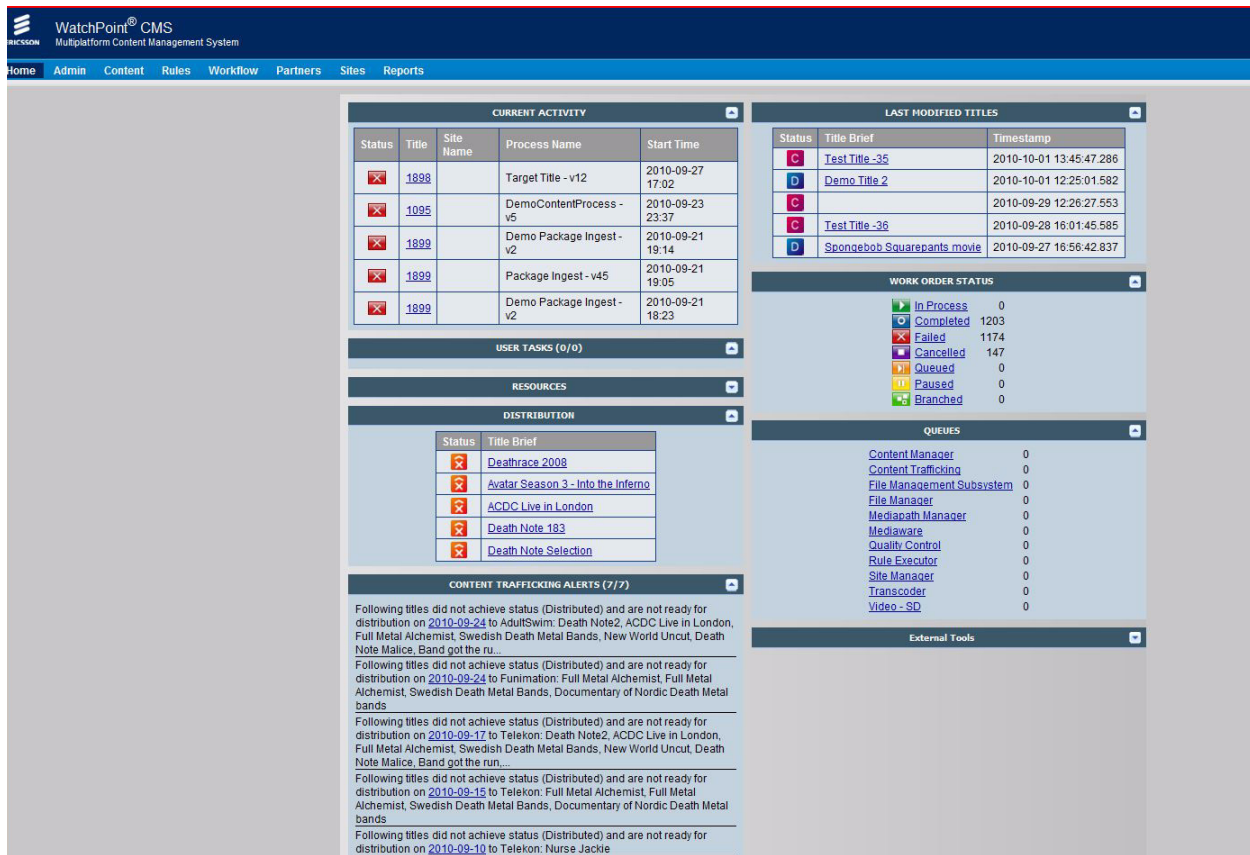
This section helps the user become familiar with the CMS environment. It is recommended that new users review this section before working in CMS.

Introducing the Home Page

The home page serves as the portal for the CMS system. The page is a collection of portlets linking to the system components. The page is seen first upon logging on to the system. It can also be accessed at any time by selecting **Home** from the menu.

Portlets: *Pluggable user interface software components that are managed and displayed in a web portal.*

Figure 2.2: Home Page Areas



The following areas are found on the home page:

- *Current Activity* - Lists the most recent activity for any title (master or site) that is currently being processed by a work order in the system that are not *Canceled* or *Completed*.
- *User Tasks* – The user tasks displayed are assigned to the current user. Select a link to perform a task.
- *Resources* – This area lists resources available to CMS and the status of each.
- *Distribution* - Lists all the titles that are currently being processed for distribution or that have completed distribution at one or more sites.
- *Content Trafficking Alerts* – This area alerts users for titles that either did not arrive or did not meet the processing milestone within the expected timeframe. If you click the link, it will take you to the relevant schedule or item. See Figure 2-3 to displays these alerts.



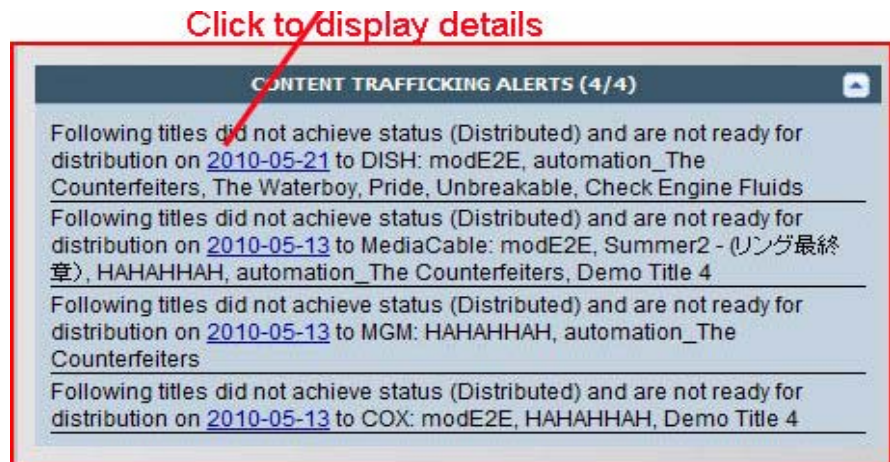
Content Trafficking is used for Content Planning and is referred to in this manner throughout the document.

- *Last Modified Titles* - Lists the Titles, status and timestamp of the most recently updated titles. The modification may be a result of user action in the UI, or from any action in a work order that causes the title to change.
- *Work Order Status* – Current work order status.
- *Queues* – Resources with work orders in queue. Only resources that are configured to display the queue on the dashboard are seen here.

- *External Tools* - Contains links to websites that may be used in the content management solution. These links open up a new window. This portlet will only display if the user has permission to view it.

The home page and its areas will be explored further in later sections of this guide. If there are Content Trafficking Alerts, the home page will display them under the *Resources* pane and the *Distribution* pane will be moved under the *Queues* area. You may need to scroll down to see this section.

Figure 2.3: Content Trafficking Alerts



To display details for any of the areas on the home page, click the Up arrow next to the area. To display just the area title, click the Down arrow. The default is to have all details displayed.

Area Navigation

A menu is always available to allow the user to move from one area to another from any point within the system. The menu allows the access of a particular tool or management feature.

Figure 2.4: Menu Bar



In most cases, a menu at the top level contains a submenu of available actions. A triangle on a submenu indicates that an additional submenu exists for that selection.

Figure 2.5: Menu Navigation



Results Navigation

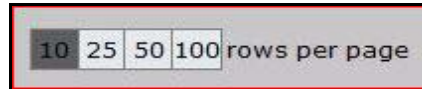
Navigation options are displayed below the listed results. You can jump to the first or last page of results, scroll through each page in sequence, or enter a specific page number to display.

Figure 2.6: Page Navigation



You can also select the number of rows to display per page of results.

Figure 2.7: Results Per Page



Object Management

Many areas contain a list of the defined items for that area. When applicable, listed items include a check box to allow the selection of one or more items. Various commands are available that can be applied to the items, such as deletion from the system or toggling of the status.

Figure 2.8: Object Management

<input type="checkbox"/>	User Name	First Name	Last Name
<input type="checkbox"/>	acontentcreator	Content	Creator
<input type="checkbox"/>	admin	Admin2	Admin
<input type="checkbox"/>	bcontenteditor	Content	Editor
<input type="checkbox"/>	bob	Robert	Downey Jr.
<input type="checkbox"/>	cableLabs	cableLabs	cableLabs
<input type="checkbox"/>	cms	Content	Management
<input type="checkbox"/>	contentviewer	Content	Viewer
<input type="checkbox"/>	new	Shinichi	Watanabe
<input type="checkbox"/>	pc12345	Peter	Parker
<input type="checkbox"/>	rmain	Robin	Main

10 25 50 100 rows per page
 page 1 of 2
 go to page: 1

The sample screen above shows a list of user names. Select the check box in the column header to select all items displayed on that page.

Click an object [link](#) within the list to access the details/edit page for that item. The details will be different depending upon the object selected.

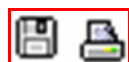
Figure 2.9: Accessing an Object

<input type="checkbox"/>	Resource Name	Connection String
<input type="checkbox"/>	Content Management	http://10.232.7.40:8080/#content
<input type="checkbox"/>	Content Trafficking	http://10.232.7.40:8080/#pmm
<input type="checkbox"/>	File Manager	http://10.232.7.40:8081/filemanager/services/FileSubsystemWebservice

Export/Save and Print Results

Throughout the workflow system UI, the **Save/Export** icon and the **Print** icon are enabled when the displayed list can be printed or exported as an Excel file.

Figure 2.10: Save/Export and Print Icons



Sorting Results

Results can be sorted by specific columns. A column heading with a hyper-link indicates a column that can be sorted. A rectangle indicates the currently sorted column and whether it is ascending or descending. From the home page, a triangle is used to sort the different areas by ascending or descending order.

Figure 2.11: Linked Column Heading, Sorted in Ascending Order

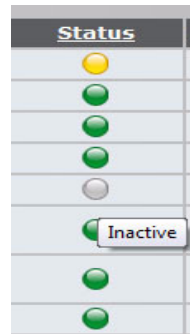


Click the column heading to sort by the column, and to toggle between ascending and descending order. A rectangular box will display next to the heading that the listing is being sorted by. In the sample shown above, the list is being sorted by Resource Name.

Mouse-over Tool Tips

WatchPoint provides contextual Tool Tips within the UI as an aid to productivity. To display a tool tip, hold your mouse pointer over an icon or menu tab.

Figure 2.12: Mouse-over Tool Tip for Status Icon



Getting Started

Once you are familiar with the GUI, you can begin working with the WatchPoint system. This guide provides extensive details of the many functions you can perform and monitor.

When setting up the workflow for the first time or when expanding existing operations by adding processes, ERICSSON Television recommends the following steps:

1. Define and create user roles.
2. Define and create users.
3. Define and create Content Classes.
4. Define the workflow processes.
5. Define the resources required for the workflow processes.
6. Integrate the resources using WatchPoint SDK.
7. Build the workflow template, resource types, and resource groups using the WatchPoint Studio.
8. Ingest resource groups and resource types created in WatchPoint Studio.
9. Ingest templates created in WatchPoint Studio.

10. Define source and distribution partners/services.
11. Create jobs, if required.
12. Define validation and normalization rules for titles.
13. Define content process rules.
14. Define Distribution Sites.
15. Start processing content.

Each of these processes is detailed in the following chapters.

Refer to the *WatchPoint Studio User Guide* and *WatchPoint SDK Guide* for more details on these products.

How to Find Information by Chapter

Wherever possible, each chapter in this guide follows the User Interface Menu Structure. The following menus map to the following chapters:

Chapter 2 - The current chapter contains the Home Page information.

Chapter 3 - Contains Administrative menu items to create and modify users and roles.

Chapter 4 - Contains Content menu items such as Content Management and title creation. It also contains an explanation of the various search functions and the Content Class feature.

Chapter 5 - Contains Rules menu items such as creating, deleting, and targeting rule sets.

Chapter 6 - The Workflow menu items have been divided into 3 chapters. This chapter contains the *Work Orders* information.

Chapter 7 - Contains the *Resources* portion of the Workflow menu and the *Dashboard* information.

Chapter 8 - Contains the *Monitoring* portion of the Workflow menu which includes all the alerting functionality.

Chapter 9 - Contains the *Partners* menu items such as Content Planning, managing Partners, and managing Services.

Chapter 10 - Contains the Sites menu items such as managing Distribution sites.

Chapter 11 - Contains *Reporting* functions.

Chapter 12 - Contains video uploading and editing functions.

Thumbnails

Thumbnails are provided for posters and box covers. They are also displayed in search results, in the title header, and on the title details screen. Every title will display one of three types of thumbnail:


Partner - This indicates the content provider that is responsible for the title. Examples include the DirecTV or Warner Bros logo. This icon will normally display if there is no poster or box cover available for a title.










Title Asset - This thumbnail displays a picture representing the title, which is often used for the box cover or poster. These thumbnails are generated from the images registered to the title.

No Image - If an image has not been uploaded for a new partner, and there is no box cover or poster available for the title, this thumbnail displays as a placeholder until an image can be uploaded. This is most likely to occur for titles uploaded from older versions of CMS.


The following screen shows these three types of thumbnails:

Figure 2.13: Thumbnails in Search Results

Search Results 

<input type="checkbox"/>	 Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	1880			Documentary of Nordic Death Metal bands	deathbands1234	9	2010-09-07 00:00	2010-11-27 00:00
<input type="checkbox"/>	1872			Swedish Death Metal Bands	deathmetal5757575757	5	2010-09-03 00:00	2011-07-22 00:00
<input type="checkbox"/>	1867			Full Metal Alchemist	metalmusic123418	6	2010-08-25 00:00	2011-04-20 00:00
<input type="checkbox"/>	1856			Full Metal Alchemist	fma4444555533332222	7	2010-08-16 00:00	2011-06-09 00:00

Delete

 Go

10

25

50

100

rows per page

page 1 of 1

go to page: 1

Icons

The following tables display all the icons used throughout CMS with the exception of the Work Order icons, which are described in Chapter 6. This includes:

- Title Icons - used for Master and Site titles, as well as title asset statuses.
- Site Icons - used for distribution, logical, tracking, and shared tracking sites
- Status Icons - used for targeted and distributed titles.

Title Icons

The following table lists title icons and descriptions in alphabetical order.

Table 1: Title Icons










Icon	Description
	Approved - the title has been approved for deployment.

Table 1: Title Icons

Icon	Description
	Committed - All of the metadata is present and validated
	Draft - Partial metadata is present or the validation rules failed
	Master Title changed after targeting
	Master Title. Master Title has not changed after targeting and/or distribution.
	Ready - title is ready to be processed.
	Retired - the title has been retired.
	Site Title. Site Title has not changed after targeting and/or distribution.
	Site Title changed after targeting.

Site Icons

The following table lists site icons and descriptions.

Table 2: Site Icons
















Icon	Description
	Distribution Site - site used to represent different platforms or other distribution locations.
	Distribution Site disabled - the distribution site is disabled
	Distribution Site error - the distribution site has encountered an error.
	Logical Site - a grouping of tracking or distribution sites.

Table 2: Site Icons

	Logical Site disabled - the logical site is disabled.
	Logical Site error - the logical site has encountered an error.
	Shared Tracking site - the site is being shared between two or more distribution sites that are using multiple formats.
	Shared Tracking site disabled- the shared tracking site is disabled.
	Shared Tracking site error - the shared tracking site has encountered an error.
	Tracking Site - the site is being used by a single distribution site using a single format.
	Tracking Site Disabled- the tracking site is disabled.
	Tracking Site error- the tracking site encountered an error.

Site Activation Icons









The following table lists site activation icons and plugin status icons. These icons show the progress of events.

	Success - Site has been successfully activated.
	Failure - Site has been de-activated manually or has failed to activate.
	Invalid Status Plugin - a previously configured status plugin no longer exists.

Distribution and Tracking Status Icons

The following table lists distribution status icons and tracking status icons. These icons show the progress of events.

Table 2.1: Distribution and Tracking Status Icons

Icon	Description
	Distributed - Title targeted for distribution has successfully completed.
	Distributed Scheduled - the title is ready to be distributed.
	Distribution failed - Title targeted for distribution failed.
	Distribution in Progress - The Title has been successfully targeted for distribution and the distribution is in progress.
	Distribution Targeted - the title has been targeted for distribution
	Tracking deployed - The title has been successfully deployed from the tracking site.
	Tracking deployment failed - the title has failed to be deployed from the tracking site.
	Tracking deployment in Progress - the deployment from the tracking site is in progress.

3

MANAGING USERS

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Overview

Role-based security: Security based on user profiles and rights created by the system administrator.

WatchPoint is based on a **role-based security** design that allows system administrators to define areas of the system that the user can access and actions the user can perform. Roles limit user access to various functions, as appropriate to the user's role in the organization.

The security module checks the user's profile and assigns the user rights with each logon process. Consequently, any roles created can be modified, and any changes that are saved are applied to the group members the next time they log on. Users can only be associated with one role identity at a time; however, users can be moved from one role to another. Through the creation of roles and user rights management, system administrators can customize system use and enforce a high level of security.

Managing Roles

System administrator: System-defined role with full rights and access within the WatchPoint interface.

A **system administrator** can add, modify, or delete unlimited roles. The default administrator role is called *Admin*. Roles define user rights and control points of access to WatchPoint's many functions. The menu options reflect general areas of related activity and display only areas that a user has permission to view. For example, personnel might only need to view reports, while headend technicians require access to all areas. Administrators can assign these tasks and design specific job parameters while enforcing system security.



There is a special role called **Admin**. This role cannot be modified. There is also a special user called **admin**. The role for this user is **Admin** and cannot be changed.

Viewing Defined Roles

A system administrator can view roles that have been created in the WatchPoint system.



Any user with the **role view** permission is able to view roles. It is not limited to the system administrator.

To display roles:

1. From the **Admin** menu, select **Role**. The Roles page displays the number of users assigned to each role and the number of permissions that role has been granted.
2. To display detailed information or to edit a role, click a roles link in the *Name* column.

Figure 3.1: Roles

Roles				
	Name ▲	User Count	Description	Permission Count
<input type="checkbox"/>	Admin	4	administrator	58
<input type="checkbox"/>	Content Creator	2	creates content	8
<input type="checkbox"/>	Content Editor	1	edits content	8
<input type="checkbox"/>	Content Viewer	0	views content	8
<input type="checkbox"/>	Executive	2	executive view	6
<input type="checkbox"/>	Partner	1	partner view	0
<input type="checkbox"/>	Quality Control	1	tester view	2
<input type="checkbox"/>	View Only	0	restricted	5
<div>CreateDelete</div>				
<div>102550100 rows per page</div>				
<div>page 1 of 1</div>				
<div>go to page: 1</div>				

Creating a Role

When creating a new role, first define the user's tasks. This helps determine areas of the system the user needs permission to view and the tasks the user can access within those areas.

For a user to access any given page within the graphical user interface (GUI), the user's role must have been granted access to that location. Additional rights that can be assigned are the ability to create, modify, delete, or approve specific system objects within the GUI.

Rights are equal and independent of each other when assigned. The View right must be enabled for any other rights to be assigned in an area.

To create a new role:

1. Click **Create** from the Roles page. The Role Details page displays.

Figure 3.2: Creating a New Role

Create Role

* Name:

Description:

Permissions:

Module	Permissions						
Home:	<input type="checkbox"/> Dashboard						
Jobs:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Monitoring:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Partners:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Plugins:	<input type="checkbox"/> View						
Reporting:	<input type="checkbox"/> View						
Reports:	<input type="checkbox"/> View						
Resource Management:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Role Management:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Rules Management:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Schedules:	<input type="checkbox"/> View	<input type="checkbox"/> Approve	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify		
Services:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Sites:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete	<input type="checkbox"/> Target	<input type="checkbox"/> Distribute	<input type="checkbox"/> Export
Title List Management:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Title Management:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Tools:	<input type="checkbox"/> View						
User Management:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
User Tasks:	<input type="checkbox"/> Perform Task	<input type="checkbox"/> Override External Tasks	<input type="checkbox"/> Perform Others Tasks				
Work Order Management:	<input type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			

2. Enter a unique *Name*. This is the only required field on the page.
3. Optionally, enter a *Description*.
4. Select check boxes to assign rights to the profile. Make selections only for areas that this role will have permission to access.

The following rights are available, depending on the area:

- *View* – Controls whether the menu item will be displayed to the user.
- *Modify* – The user has the right to view and make changes to an object's details.
- *Create* – The user has the right to add new entries to the system.
- *Delete* – The user has the right to remove objects from the system.
- *Approve* – The user has the right to approve schedules.
- *Dashboard* - Determines whether or not the workflow dashboard is presented to the user.
- *Target* - The user has the right to target a title to a distribution site.
- *Distribute* - The user has the right to distribute to a distribution site.
- *Export* - The user has the right to export site titles to a distribution-site.

When selected, the user assigned to this role has the right for that area.

The *User Tasks* area contains a unique set of permissions. These permissions are assigned to a human resource and include the following:

- *Perform Task* – The user can complete the task.
- *Override External Tasks* – The user can perform tasks designed for completion by an external resource or application.
- *Perform Others Tasks* – The user can view and perform any tasks assigned to other users.

- Click **Save** to complete. The new definition is added to the Roles page and is available for assignment to a user.
- To return to the Roles page without saving changes, click **Cancel**.

Modifying a Role

To modify a role:

- Click the link for an existing role from the *Name* column on the View Roles page.

Figure 3.3: Modifying a Role

Role Details: ViewOnly

* Name: ViewOnly

Description: user can only view

Permissions:

Module	Permissions						
Home:	<input type="checkbox"/> Dashboard						
Jobs:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Monitoring:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Partners:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Plugins:	<input checked="" type="checkbox"/> View						
Reporting:	<input checked="" type="checkbox"/> View						
Reports:	<input checked="" type="checkbox"/> View						
Resource Management:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Role Management:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Rules Management:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Schedules:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Approve	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify		
Services:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			
Sites:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete	<input type="checkbox"/> Target	<input type="checkbox"/> Distribute	<input type="checkbox"/> Export
Title List Management:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Title Management:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
Tools:	<input checked="" type="checkbox"/> View						
User Management:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Modify	<input type="checkbox"/> Delete			
User Tasks:	<input type="checkbox"/> Perform Task	<input type="checkbox"/> Override External Tasks	<input type="checkbox"/> Perform Others Tasks				
Work Order Management:	<input checked="" type="checkbox"/> View	<input type="checkbox"/> Create	<input type="checkbox"/> Delete	<input type="checkbox"/> Modify			

Save **Cancel**

- From the Roles Detail page, select or clear check boxes to change permissions.
- Click **Save**. Changes are saved. Because permissions are assigned when a user logs on, users who are currently logged on with this role are not affected. Changes will be reflected in the user's next session.
- To return to the Roles page without saving changes, click **Cancel**.

Managing Users

While roles define permissions, personnel are assigned roles and must be provided a user name and password to log on to the system.

Viewing Users

To view a user:

- From the **Admin** menu, select **User**.

Figure 3.4: Viewing Users

Users			
<input type="checkbox"/>	User Name ^	First Name	Last Name
<input type="checkbox"/>	accontentcreator	Content	Creator
<input type="checkbox"/>	admin	Admin2	Admin
<input type="checkbox"/>	bcontenteditor	Content	Editor
<input type="checkbox"/>	bob	Robert	Downey Jr.
<input type="checkbox"/>	cableLabs	cableLabs	cableLabs
<input type="checkbox"/>	cms	Content	Management
<input type="checkbox"/>	contentviewer	Content	Viewer
<input type="checkbox"/>	john.doe	John	Wayne
<input type="checkbox"/>	new	Shinichi	Watanabe
<input type="checkbox"/>	pc12345	Peter	Parker

10 25 50 100 rows per page
page 1 of 2
go to page: 1

The view *Users* page displays each user's *User Name*, *First Name*, and *Last Name*. From this page, a user with permission can select to create, modify or delete a user.

2. Use the navigation buttons and fields to view additional pages.
3. Optionally, click a user name to display details for that user.

Creating a New User

1. To create a new user, from the Users page, click **Create**. The screen displays the following:

Figure 3.5: Creating a User

Create User

* User Name:

* Password:

Re-enter Password:

* Roles:

* First Name:

* Last Name:

Is Active?: ☒

* Email:

Employee ID:

Department:

Location:

Phone:

Extension:

2. Enter the user details. Required fields are marked with an asterisk.
3. Click **Save**. The user is created.
4. To return to the Users page without saving changes, click **Cancel**.



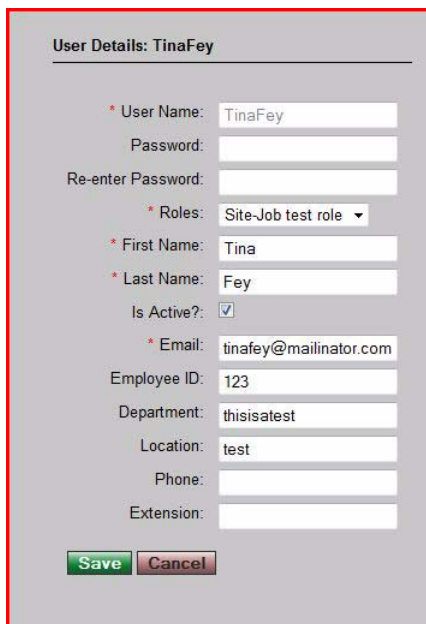
The password must contain between 8 and 16 characters, must contain at least 1 digit, and cannot be the same as the user name.

Modifying a User

To modify a user:

1. On the *View Users* page, click a link in the **User Name** column. The User Details page is displayed for the selected user.

Figure 3.6: Modifying a User



User Details: TinaFey

* User Name: TinaFey

Password:

Re-enter Password:

* Roles: Site-Job test role ▼

* First Name: Tina

* Last Name: Fey

Is Active?: ☒

* Email: tinafey@mailinator.com

Employee ID: 123

Department: thisisatest

Location: test

Phone:

Extension:

Save **Cancel**

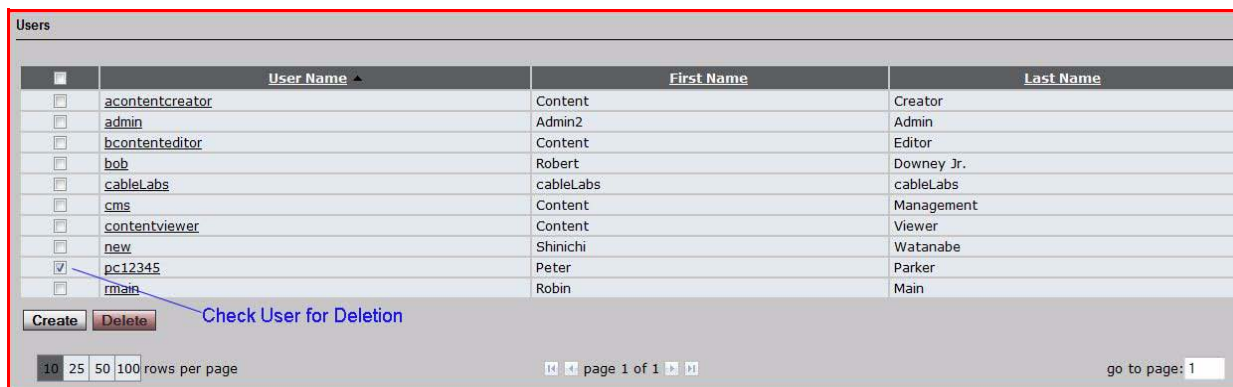
2. Edit user information, reset passwords, reassign roles (permissions), or change user status.
3. Click **Save**. Changes are saved.
4. To return to the Users page without saving changes, click **Cancel**.

Deleting a User

To delete a user:

1. On the Users page, select the check box next to a user.
2. Click **Delete**.

Figure 3.7: Deleting a User



<input type="checkbox"/>	User Name	First Name	Last Name
<input type="checkbox"/>	acontentcreator	Content	Creator
<input type="checkbox"/>	admin	Admin2	Admin
<input type="checkbox"/>	bcontenteditor	Content	Editor
<input type="checkbox"/>	bob	Robert	Downey Jr.
<input type="checkbox"/>	cableLabs	cableLabs	cableLabs
<input type="checkbox"/>	cms	Content	Management
<input type="checkbox"/>	contentviewer	Content	Viewer
<input type="checkbox"/>	new	Shinichi	Watanabe
<input checked="" type="checkbox"/>	pc12345	Peter	Parker
<input type="checkbox"/>	rmain	Robin	Main

Create **Delete** Check User for Deletion

10 25 50 100 rows per page page 1 of 1 go to page: 1



If the user is a resource, the system displays an error message and the deletion fails. The associated resource must be deleted before the user can be removed.

If the user is not assigned as a resource, the delete processes successfully. The View Users list reflects the deletion.

4

CONTENT MANAGER

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Introduction

A title is a reference to both physical assets (files) and metadata. Watch-Point enables users to create titles in anticipation of the actual arrival of the assets. Once represented in the system, CMS tracks the processing progress for those registered titles. Metadata fields used by the title depend on the specification plugin, which corresponds with the specification of the referenced assets.

Title Registration Methods

There are five ways to register a title within CMS.

Manual Creation

Users can manually create a title within the graphical user interface (GUI) prior to the physical assets being available. This facilitates the preparation of the system for expected content as indicated by the planner schedule. The Metadata view is customized using the UI spec plugin, which determines which metadata fields are visible to the user and how they are named. Only one UI spec plugin is supported, providing a single metadata view per deployment.

Asset Ingest Template

In this scenario, the metadata XML file or a heavy asset file is dropped into a folder being monitored for incoming assets, generating a work order based on the asset ingest template.

Package Ingest Template

A package is dropped into the folder being monitored for incoming packages, triggering a work order based on the package ingest template.

Planner Ingest Template

A planner is dropped into the folder monitored for incoming planners. Planners contain the titles that will arrive from the content providers on the date indicated. In this scenario, for each title found in the planner, a work order creates a title in CMS in anticipation of the asset's arrival. When the assets are received, a work order is created to map the assets to the created titles.

The system checks each title found to see if the title is already present in CMS. If any title is found to already be present, the planner is assumed to be an update. If the planner was ingested in the past with incomplete metadata identifiers for the title, then the planner would be rejected. In this case, the user must manually add the titles.

Package Receipt by CMS

In this scenario, a message from ADIServer (a CMS component) is sent, which exposes an ADI interface for provisioning packages. If the title corresponding to the package is not found and the package has been submitted by a trusted provider, the system can create the title and provision the package.

Status

To ensure that only completed titles are scheduled for pitching, a title can have one of the following statuses:

- *Draft* – Partial metadata is present or the validation rules failed.
- *Committed* – All of the metadata is present and validated.

- *Ready* – The system sets the status to Ready when the expected physical assets are available. This status indicates the title is ready to be processed.

Titles can also be *Master* Titles or *Site* Titles. [See “Title Status Icons” on page 50.](#)

Searching for Titles

There are three methods available for searching for a title or a group of titles.

- Create a search criteria on the search page. This can be a Quick Search, a Basic Search or an Advanced Search. These will be described in the next sections.
- Run a previously saved search from the drop-down menu. This can be a search created by the same user or a different user who has shared their search criteria.
- Edit a saved search and then click **Search**.

1. To search for titles, select **Content —> Search**. The following screen displays:

Figure 4.1: Search Dialog

2. To find all titles, click **Search** without entering any criteria. To use search criteria, use one of the options described in the next sections.

Quick Search Options

The **Quick Search** option allows you to enter any text in the *Quick Search* field. For example, if you enter *Bleach* in this field and click the **Go** button, the search results screen will display all titles that have the word *Bleach* in them as shown below:

Figure 4.2: Quick Search Results

Search Results									
	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End	Matching Value
<input type="checkbox"/>	1891	C		"Ichigo Becomes a Hollow!"	bleac191919191911		2010-09-13 00:00	2010-11-19 00:00	The episodes of the Bleach anime series are based on the manga of the same name written by Tite Kubo...
<input type="checkbox"/>	1890	D		Bleach - Shinigami	bleach1234123411				Bleach - Shinigami
Delete <input type="button" value="Go"/>									
10 25 50 100 rows per page page 1 of 1 go to page: 1									

The **Matching Value** field displays all occurrences of the text that was searched for, in this case, *Bleach*. This field is trimmed to show where the exact occurrence of the word was located in, regardless of which metadata field it is contained in, up to 100 characters.

Refining the Quick Search Options

Boolean operators such as *AND* and *OR* can be entered. *AND* is entered using a space, and *OR* must be entered as */*. For example, to search for all titles that have the words *Death* or *Metal*, enter the following in the **Quick Search** box and click **GO**:

Death | Metal

This search will return the following:

Figure 4.3: Quick Search Results using OR operator

Search Results									
	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End	Matching Value
<input type="checkbox"/>	1882	C		ACDC Live in London	ACDC123412341234		2010-09-09 00:00	2011-04-15 00:00	loud rock and metal
<input type="checkbox"/>	1880	C		Documentary of Nordic Death Metal bands	deathbands1234	9	2010-09-07 00:00	2010-11-27 00:00	history of death metal bands in Norw. and Denmark.
<input type="checkbox"/>	1872	C		Swedish Death Metal Bands	deathmetal575757575757	5	2010-09-03 00:00	2011-07-22 00:00	The death metal scene in Sweden has many bands and genres outside Swed melodic inf...
<input type="checkbox"/>	1867	C		Full Metal Alchemist	metalmusic123418	6	2010-08-25 00:00	2011-04-20 00:00	Full Metal Alchemist

You can enter the words in any order, for example, *Metal | Death* would generate the same results.

If you entered **Death Metal**, however, the search would only return titles that had both words as shown below:

Figure 4.4: Quick Search Results using AND operator



Search Results									
	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End	Matching Value
<input type="checkbox"/>	1880	C		Documentary of Nordic Death Metal bands	deathbands1234	9	2010-09-07 00:00	2010-11-27 00:00	history of death metal bands in Norway, Sweden and Denmark.
<input type="checkbox"/>	1872	C		Swedish Death Metal Bands	deathmetal5757575757	5	2010-09-03 00:00	2011-07-22 00:00	The death metal scene in Sweden has influenced many bands and genres outside Sweden. The melodic inf...
<input type="checkbox"/>	1867	C		Full Metal Alchemist	metalmusic123418	6	2010-08-25 00:00	2011-07-22 00:00	

Delete

10 25 50 100 rows per page page 1 of 1 go

Another search refining option allows you to enter the exact search text in quotes, for example, entering *“Death Metal”* will return the following results:

Figure 4.5: Quick Search Results using Quotes

Search Results									
	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End	Matching Value
<input type="checkbox"/>	1880	C		Documentary of Nordic Death Metal bands	deathbands1234	9	2010-09-07 00:00	2010-11-27 00:00	history of death metal bands in Norway, Sweden and Denmark.
<input type="checkbox"/>	1872	C		Swedish Death Metal Bands	deathmetal5757575757	5	2010-09-03 00:00	2011-07-22 00:00	The death metal scene in Sweden has influenced many bands and genres outside Sweden. The melodic inf...

Delete

10 25 50 100 rows per page page 1 of 1 go to page: 1

The search can also use wildcards, for example, entering Drag* will return Drag Race and Drag-racing.

[See “Quick Search Operators” on page 255](#) for a complete list of operators and their results.

Basic Search Options

The **Basic Search** option allows you to select from a group of titles with common values using a flat list of fields. The **Basic Search** contains a subset of the search criteria found in the **Advanced Search**. The Basic Search screen options are displayed below:

Figure 4.6: Basic Search Options

Search

Quick Search

Saved Searches

▼ Basic

Equals

Enter value or select from drop-down

Depending on the first option selected, you can enter either a text value or select from a drop-down menu.

1. Click on the **Basic** down arrow.
2. For this example, search for all *Ready* titles. Select *Title Status* from the first drop-down menu.
3. Select *Ready* from the second drop-down. The search results screen displays all the ready titles as follows:

Figure 4.7: Basic Search Results

Search Results (7)								
	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	104	R		MADH_100969	MADH2231220897100969	1	2010-07-29 00:00	2011-07-29 00:00
<input type="checkbox"/>	102	R		MADH_100933	MADH2231220897100933	1	2010-07-29 00:00	2011-07-29 00:00
<input type="checkbox"/>	99	R		MADH_100945	MADH2231220897100945	1	2010-07-29 00:00	2011-07-29 00:00
<input type="checkbox"/>	98	R		MADH_100939	MADH2231220897100939	1	2010-07-29 00:00	2011-07-29 00:00
<input type="checkbox"/>	96	R		MADH_100975	MADH2231220897100975	1	2010-07-29 00:00	2011-07-29 00:00
<input type="checkbox"/>	95	R		MADH_100927	MADH2231220897100927	1	2010-07-29 00:00	2011-07-29 00:00

Basic Search Operator

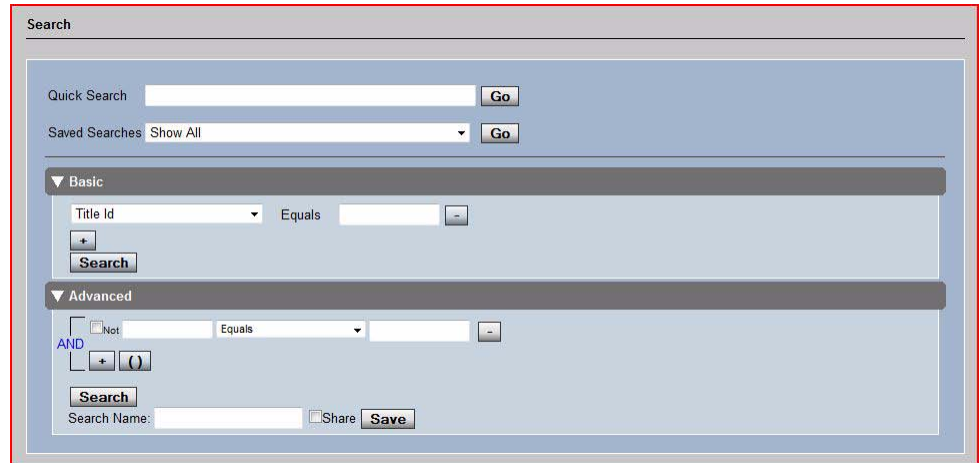
The Basic Search operator cannot be changed. The supported operators include:

- **Between** - Used for date fields such as *Creation Date between 2003-02-01 and 2006-05-04*.
- **Contains** - Used for any text entered such as *Title Contains Metal*.
- **Equals** - Used for integer, float, boolean, and time fields such as *Suggested Price equals 9.99*.

Advanced Search Options

You can search using filtering criteria by accessing the **Basic** or the **Advanced** down arrow. To activate the advanced search options, click the **Advanced** down arrow from the *Search* screen. The screen displays the following:

Figure 4.8: Advanced Search Options



The screenshot shows a web-based search interface titled "Search". At the top, there is a "Quick Search" section with a text input field and a "Go" button. Below this is a "Saved Searches" section with a dropdown menu set to "Show All" and another "Go" button. The main area is divided into two sections: "Basic" and "Advanced". The "Basic" section is currently expanded, showing a "Title Id" dropdown menu, an "Equals" operator, and a text input field. Below these are buttons for "+", "Search", and "-". The "Advanced" section is collapsed. At the bottom of the interface, there is a "Search Name" text input field, a "Share" checkbox, and a "Save" button.

You can search for titles with any missing content such as a movie or trailer. You can also search for titles with a particular asset type missing content. Some of the conditions that you can search by are listed below:

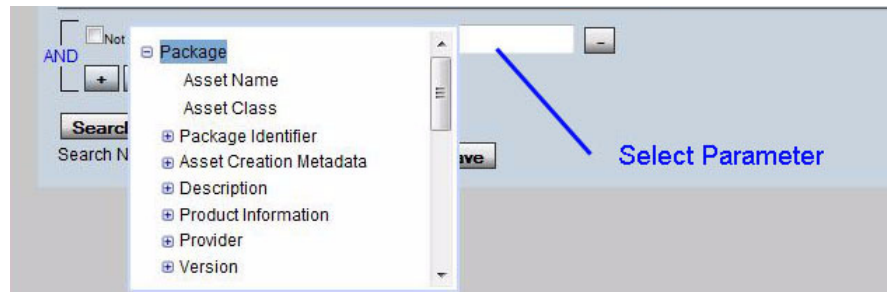
- Package is missing content
- Package is NOT missing content
- Movie AND/OR Preview AND/OR Poster (individually selected) is missing content
- Movie AND/OR Preview AND/OR Poster (individually selected) is NOT missing content
- Any of the above conditions along with some other metadata conditions



You can also save your searches. Saved searches can be shared with other users or kept private for a single user.

4. To expedite finding specific titles, the system allows you to search titles based on values matched in metadata fields. Use the left mouse button to click within the left text box to access the metadata fields within the asset tree.

Figure 4.9: Metadata Fields

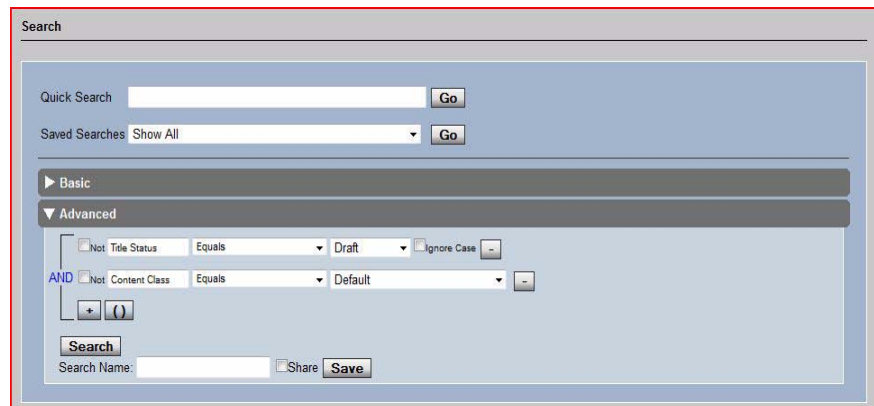


5. Select a field to match, and then select an operator from the drop-down list. Only operators appropriate to the selected field are displayed.



The metadata fields shown in this page are defined in the specification plugin.

Figure 4.10: Choose Operator



- In the example above, all titles with a **Draft** status for the **Default** Content Class will be searched for.
6. Enter the value.
 7. To enter additional criteria, click +. To add child criteria, click ○.
 8. Click **Search** to display the results.

The following lists an example of possible information that can be displayed:

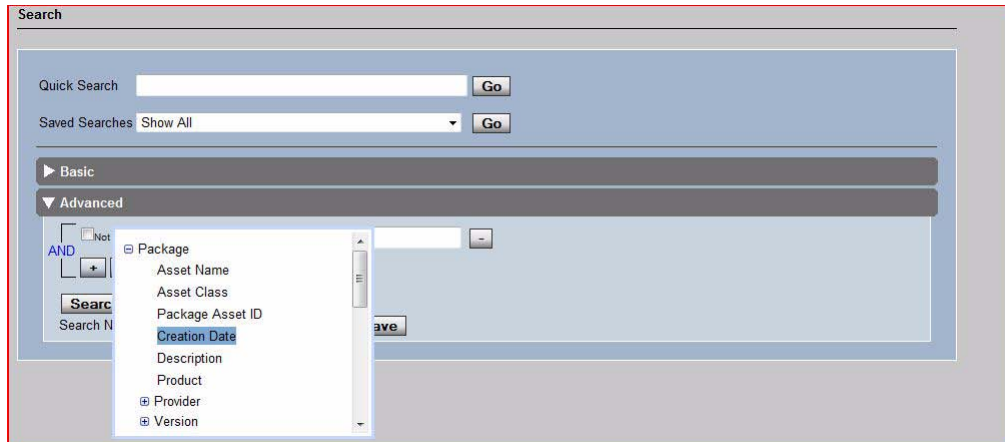
- *ID* – Unique ID for the title. A sequential integer that is generated by CMS when the title is added in the system.
- *Status* – Icon denoting the status for the title, such as Committed, Draft or Ready.
- *Title Brief* – Asset title.
- – that uniquely identifies the specific asset. If no metadata has been added, this might be blank.
- *Major Version* – Major version specified in the metadata. For Cable-Labs 1.1 metadata, it is typically controlled by the content provider.
- *License Start* – Date the asset is available for viewing.
- *License End* – Date the asset is no longer available for viewing.
- *Content Class* - The Content Class that the title was created with.

Creating a Saved Search

You can create a search to be saved from this screen.

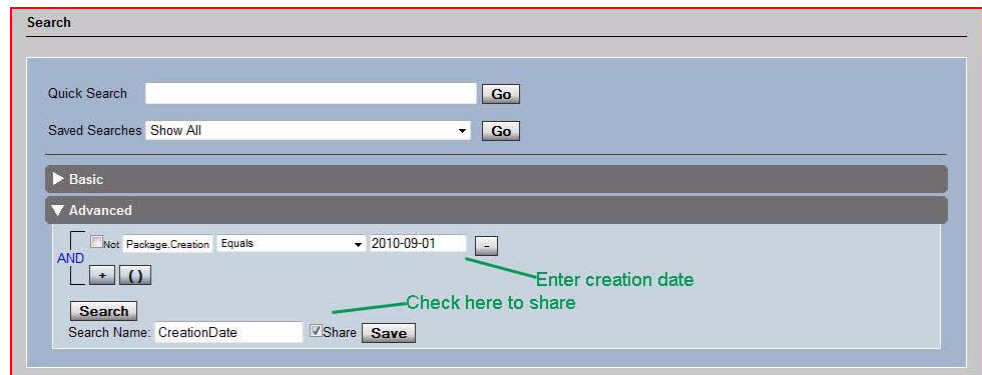
1. Enter the name of the search to be created in the *Search Name* field.
2. Click the box between the **Not** checkbox and the **Equals** box to display the advanced search criteria. The following screen displays:

Figure 4.11: Search Criteria

The screenshot shows a 'Search' window with a 'Quick Search' field and a 'Go' button. Below it is a 'Saved Searches' dropdown menu with 'Show All' selected and another 'Go' button. The 'Basic' section is collapsed, and the 'Advanced' section is expanded. In the 'Advanced' section, there is a list of search criteria: 'Asset Name', 'Asset Class', 'Package Asset ID', 'Creation Date' (which is highlighted), 'Description', 'Product', 'Provider', and 'Version'. To the left of this list are checkboxes for 'Not' and 'AND'. At the bottom of the 'Advanced' section, there is a 'Search' button and a 'Search Name' field.

3. Enter the search criteria that you want to save. For this example, select *Package Creation Date*, and select a creation date of 09/01/2010.
4. Check the *Share* box to share this search with others. Name your search *CreationDate*. The screen displays the following:

Figure 4.12: Search Criteria

The screenshot shows the 'Search' window with the 'Advanced' section expanded. The search criteria are set to 'Package Creation Date' with the operator 'Equals' and the value '2010-09-01'. There are green arrows pointing to the '2010-09-01' field with the text 'Enter creation date' and to the 'Share' checkbox with the text 'Check here to share'. The 'Search Name' field is set to 'CreationDate' and the 'Share' checkbox is checked. The 'Save' button is visible at the bottom right.

5. Click **Save**. The search is now saved. The "Successfully saved title search" message is displayed. This search can now be used to search for all packages created on the specified date.
- You can then search again by clicking the **Search** button, or by selecting the newly-created *CreationDate* from the drop-down menu.
 - The search can also be copied or deleted from this screen. This will be described in the next section.

Copying a Saved Search

Advanced searches that are saved can be copied to similar searches with changes or additions in metadata search criteria. This can be useful when too many search results are returned for a specific search and the criteria needs to be refined further. For this example, we will create two searches that look for the text string “*metal*” in various fields in the Package and Title Assets.

Figure 4.13: Advanced Search Criteria Original Search

The screenshot shows a web-based search interface titled "Search". It features a "Quick Search" section with a text input field and a "Go" button. Below this is a "Saved Searches" section with a dropdown menu showing "Metal2", a "Go" button, and an "Edit" button. The main search area is divided into "Basic" and "Advanced" sections. The "Advanced" section is expanded, showing a logical expression: "AND (OR (NOT (Package.Description Contains Metal Ignore Case) OR (NOT (Package.Asset Name Contains Metal Ignore Case)))". At the bottom, there is a "Search" button, a "Search Name" field containing "Metal2", a "Share" checkbox, and "Save", "Copy", and "Delete" buttons.

In the example shown above, we are searching for a Title that contains the word *metal* in the Package Description *or* the Package Asset Name.

1. Save this search as *Metal2* and make it a shared search.
2. Provide a different search name for the copy, in this case, *FullMetal*, and click the **Copy** button.
3. Click the parenthesis to add another criteria as shown in the following screen:

Figure 4.14: Advanced Search Criteria Copied Search

The screenshot shows the 'Search' window with the 'Advanced' tab selected. The search criteria are defined as follows:

- Package.Description Contains Metal (Ignore Case checked)
- Package.Asset Name Contains Metal (Ignore Case checked)
- Package.Product Contains Metal (Ignore Case checked)
- Title.Description Contains Metal (Ignore Case checked)

The search criteria are connected by 'AND' logic. The 'Search Name' is 'FullMetal', and the 'Share' checkbox is checked. Buttons for 'Save', 'Copy', and 'Delete' are visible at the bottom.

4. Save the new search with the updated criteria by clicking the **Save** button. The *Successfully saved search results* message displays.

In the example shown above, we refined the search criteria to include Title Descriptions that contain the word *metal* and Package Products that contain the word *metal*. We also clicked the **Ignore Case** check box so that the Title metadata matching is performed in a case-insensitive manner.

The search results screens below show the list of titles found based on the first search, *Metal2*, and the refined search, *FullMetal*.

Figure 4.15: Original Search Criteria Search Results

	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	1880	C		Documentary of Nordic Death Metal bands	deathbands1234	9	2010-09-07 00:00	2010-11-27 00:00
<input type="checkbox"/>	1872	C		Swedish Death Metal Bands	deathmetals757575757	5	2010-09-03 00:00	2011-07-22 00:00
<input type="checkbox"/>	1867	C		Full Metal Alchemist	metalmusic123418	6	2010-08-25 00:00	2011-04-20 00:00
<input type="checkbox"/>	1856	C		Full Metal Alchemist	fma444455553332222	7	2010-08-16 00:00	2011-06-09 00:00

At the bottom of the table, there is a 'Delete' button and a 'Go' button. Below the table, there is a 'rows per page' dropdown menu with options 10, 25, 50, and 100. The page number is 'page 1 of 1'. There is also a 'go to page' input field with the value '1'.

The refined search results are shown in the next screen:

Figure 4.16: Copied Search Criteria Search Results

Search Results								
<input type="checkbox"/>	<u>Id</u>	<u>Status</u>	<u>Thumbnail</u>	<u>Title Brief</u>	<u>Asset ID</u>	<u>Major Version</u>	<u>License Start</u>	<u>License End</u>
<input type="checkbox"/>	1880	C		Documentary of Nordic Death Metal bands	deathbands1234	9	2010-09-07 00:00	2010-11-27 00:00
<input type="checkbox"/>	1872	C		Swedish Death Metal Bands	deathmetals757575757	5	2010-09-03 00:00	2011-07-22 00:00
<input type="checkbox"/>	1867	C		Full Metal Alchemist	metalmusic123418	6	2010-08-25 00:00	2011-04-20 00:00

Delete Go

10 25 50 100 rows per page page 1 of 1 go to page: 1

Sorting the Search Results

Search Results can be sorted by any of the underlined table column headings that show on the Search Results screen. Click on the top field name in the results screen. An Up or Down arrow will appear next to the field that the listing is being sorted by. You can sort by ID, Status, Title Brief, , License Start and License End. To toggle the listing between ascending or descending order, click on the arrow.

The following screen displays the results sorted by *Title Brief* in descending order:

Figure 4.17: Sort Search Results

Search Results

Sort Criteria

<input type="checkbox"/>	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End	Matching Value
<input type="checkbox"/>	124	C		ACDC Live in London	ACDC123412341234	5	2010-09-21 00:00	2011-04-30 00:00	A GREAT live video with AC/DC in Donnington and the song Thund 1991. Screaching vocals...
<input type="checkbox"/>	122	C		Documentary of Nordic Death Metal Bands	CMPA0401285097032363		2010-09-21 00:00	2011-04-21 00:00	history of death metal bands in Norway, Sweden and Denmark.
<input type="checkbox"/>	123	D		Full Metal Alchemist Movie	CMPA0401285095408560				Full Metal Alchemist Movie
<input type="checkbox"/>	118	C		Full Metal Alchemist Movie - Conqueror of Shamballa (Full English)	CMPA0401285093689335				Full Metal Alchemist Movie - Conqueror of Shamballa (Full English)

Delete

Go

102550100

rows per page

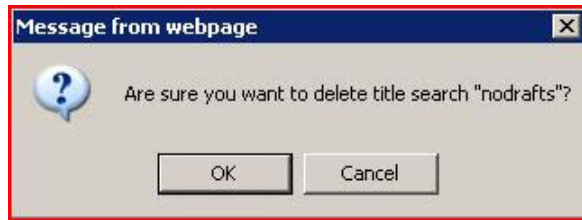
page 1 of 1

go to

Deleting a Saved Search

1. To delete a saved search, select the search from the drop-down menu.
2. Click **Edit**. The Search criteria displays in the Advanced portion of the screen.
3. Click **Delete**. The confirmation screen displays as shown below:

Figure 4.18: Delete confirmation dialog



4. Click **OK**. The *Successfully Deleted Search* message displays.

Managing Titles

Six actions are available from the drop-down list shown below the Search Results screen: **Delete**, **Run Template**, **Batch Edit**, **Target Titles**, **Add to existing title list**, and **Add to existing pitch schedule**. You can also export all matching search results to Excel using the button that appears to the right of the *Search Results* heading.

1. To manage titles, use the checkbox to select one or more titles.
2. Select the option from the drop-down list.
3. Click **Go**.

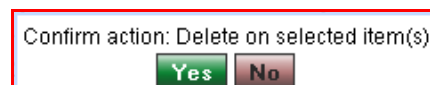
Figure 4.19: Title Options



Deleting Titles

When **Delete** is selected, a confirmation message is displayed.

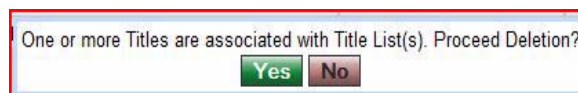
Figure 4.20: Delete Titles Confirmation



Click **Yes** or **No**. A message confirming the choice is displayed.

If one or more titles selected for deletion are associated with existing TitleLists, Schedules or Planners, you will see a message asking you to confirm if the delete operation should continue and if the association should be removed.

Figure 4.21: Delete Associated Titles Confirmation



Click **Yes** or **No**. A message confirming the choice is displayed.

Run Template

To run a template:

1. Check the title(s) you wish to run the template against from the list.
2. Select **Run Template**. A drop-down list displays available templates.

Figure 4.22: Run Template Options



3. Select a template and click **Go**. A confirmation message is displayed.

Figure 4.23: Scheduled Work Orders Confirmation



Batch Edit

This feature allows you to select and edit multiple titles that belong to the same content class from the *Search Results* screen.

1. Select **Content—> Search**. Select a saved search from the drop-down and click **Go**. The Search results screen displays.
2. Select the titles you wish to edit from the list.

Figure 4.24: Batch Edit Option

The screenshot shows a web interface titled "Search Results" with a table of media items. The table has columns for selection, ID, status, thumbnail, and title. Two items are selected (checked). Red arrows point to the "Select Titles" header and the "Batch edit" dropdown menu.

	<u>Id</u>	<u>Status</u>	<u>Thumbnail</u>	<u>Title Brief</u>
<input checked="" type="checkbox"/>	128	D		The Scorpions Metal Band - Moment of Glory
<input checked="" type="checkbox"/>	127	D		Documentary of Nordic Death Metal Bands
<input type="checkbox"/>	123	D		Full Metal Alchemist Movie
<input type="checkbox"/>	118	C		Full Metal Alchemist Movie - Conqueror of Shamballa (Full English)

Batch edit

3. Select **Batch Edit** and click the **Go** button. The title metadata form page displays with all the available metadata that has been configured for Batch Edit.

Figure 4.25: Batch Edit Metadata

NO IMAGE

M Batch Edit:[128, 127]

Titles Selected

Check here for batch delete

Metadata Properties History Sites Activity

Package Title

▼ Metadata

Asset Name: ☐ Nullify

Asset Class: ☐ Nullify

Creation Date: ☐ Nullify

Description: ☐ Nullify

Product: ☐ Nullify

Version Major: ☐ Nullify

Version Minor: ☐ Nullify

Verb: ☐ Nullify

Application Type: ☐ Nullify

Metadata Specification Version: ☐ Nullify

▼ Custom Fields

Archive Type: ☐ Nullify

Save All Save All as Draft Save with Current Status Cancel

4. Check the *Nullify* checkbox if you want to Batch delete a field for all of the selected titles. You can select multiple fields if desired. Click **Save** to save your changes.



Make sure the titles selected belong to the same content class. If they do not, an error will display.

5. To save all the titles as Draft, click **Save All as Draft**. The Status will change to Draft as shown in the following *Search Results* screen:

Figure 4.26: Batch Edit Titles Changed to Draft

Search Results						
The following titles have been edited:[128, 127]						
	Id	Status	Thumbnail	Title Brief	Asset ID	Major Ver.
<input type="checkbox"/>	128	D		The Scorpions Metal Band - Moment of Glory	CMPA0401285098745584	
<input type="checkbox"/>	127	D		Documentary of Nordic Death Metal Bands	CMPA0401285097032363	

- To save the titles and keep the same status, click **Save with Current Status**. The titles will be saved and the status will remain. In the examples shown below, the titles remained in the Committed state.

Figure 4.27: Batch Edit Titles Keep Status

Search Results								
The following titles have been edited:[125, 124]								
	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	128	D		The Scorpions Metal Band - Moment of Glory	CMPA0401285098745584	8	2010-09-21 00:00	2010-12-16
<input type="checkbox"/>	127	D		Documentary of Nordic Death Metal Bands	CMPA0401285097032363	8	2010-09-21 00:00	2011-04-21
<input type="checkbox"/>	126	C		Scorpions - the first German Metal band	CMPA0401285096605517	10		
<input type="checkbox"/>	125	C		Ichigo Becomes a Hollow!	ichi123412341234	6	2010-09-21 00:00	2011-02-25
<input type="checkbox"/>	124	C		ACDC Live in London	ACDC123412341234	5	2010-09-21 00:00	2011-04-30

- Click **Save All** to promote any titles that are *Draft* to *Committed*. All other titles will maintain their current status.
- To cancel editing, click **Cancel**. The Search results screen re-displays.

Target Title(s)

This action allows you to target titles for distribution. See [Chapter 10 - Site Management](#), for more information on targeting titles.

- Select *Target Titles* from the drop-down list. A list box displays the available distribution sites.

Figure 4.28: Target Titles Site List

Target Title(s)

ChDist1
ChDist2
ChDist3
ChDist4
ChDist5

Go

- Select the site(s) you wish to target the titles to. Click **Go**. The screen displays the following:

Figure 4.29: Target Titles Confirmation

Click **Yes** or **No**. A message confirming the choice is displayed.

Figure 4.30: Scheduled Targeting for Titles Confirmation

Two other options are available:

- *Add to Existing Title List*

This action is performed after a title list has been selected. Refer to the [Creating a TitleList](#) section later in this chapter.

- *Add to Existing Pitch Schedule*

This action is initiated during schedule management. [See "Adding/Removing Titles" on page 168.](#)

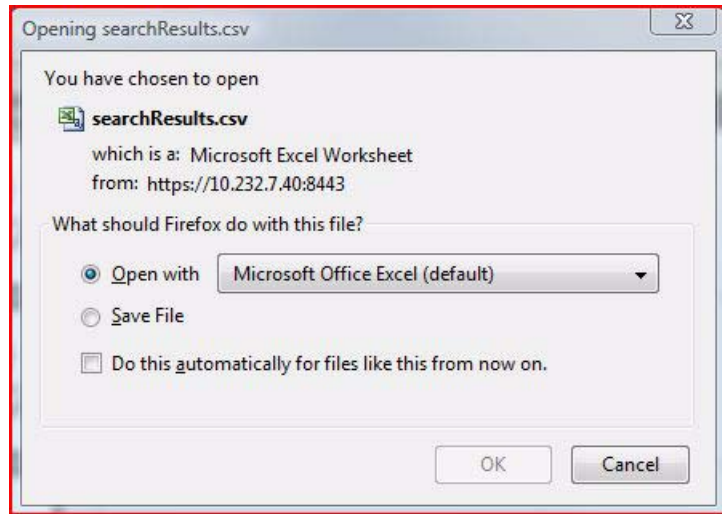
Exporting Titles

Title Search results can be exported to an Excel file. This can be used to generate title reports, such as a report for all titles missing movie files.



1. To export the titles in the search results to an Excel spreadsheet, click the Save icon next to **Search Results** on the screen. The following pop-up displays:

Figure 4.31: Scheduled Targeting for Titles Confirmation



2. Click **Save File**. Click **OK**. A file containing all of the matching titles on all pages will be generated.



If the file is greater than 5000 rows, only the first 5000 rows will be generated.

Creating Titles

The Content Class and Content Provider are required when creating titles. You must select the content provider first. You can then select from a list of available content classes for the provider.

This section describes creating a title manually. To create a title:

1. From the **Content** menu, select **Create**. The screen displays the following:

Figure 4.32: Create Content screen



2. Select the Content Provider from the drop-down.
3. Select the Content Class from the drop-down.



If there is only one content provider available, it will be selected automatically.

[See "Content Classes" on page 66](#) for details

4. Click **Next**. The screen displays the following:

Figure 4.33: Create Title

NO IMAGE

M Title Details: D

Metadata Properties History Sites Activity

Package

Title

Movie

▼ Metadata

Asset Name:

Asset Class:

Package Asset ID:

Creation Date:

Description:

Product: VOD

Provider Name: Dreamworks

Provider ID: Dreamworks

Version Major:

Version Minor:

Verb:

Application Type: DVD

Save Save as Draft Preview Cancel

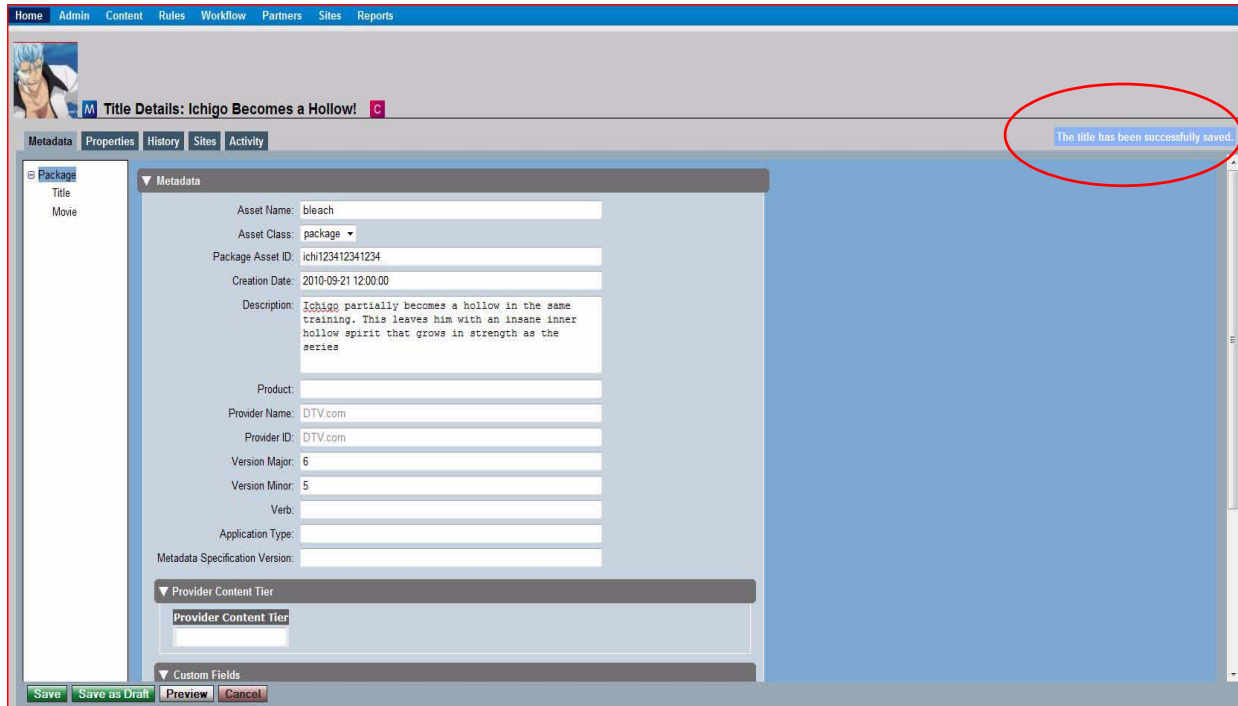
These fields are automatically populated based on the Content Class

5. Enter the metadata for the new title.
6. Click **Save as Draft** to save the entry without validating.
7. Click **Save** to run the validation rules against the current values and save.



The *Provider Name* and *Provider ID* fields are automatically populated.
It is recommended you enter metadata values before saving the title the first time.

Figure 4.34: Title Created Message



Title Status Icons

Several icons are available to indicate the status of a title. These appear at the top of the page:

Figure 4.35: Draft Title icon



This icon indicates the title is in the *Draft* State. The **M** next to the title details indicates Master Title. When the title details have been added, they will appear as shown in the following screen:

Figure 4.36: Draft Title icon with Title Details

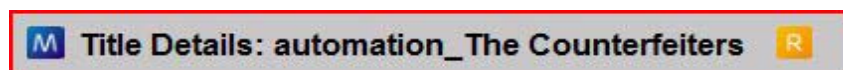


Once the title has been committed, the icon will change as shown in the following screen:

Figure 4.37: Committed Title icon with Title Details



Figure 4.38: Ready Title icon



The screen above shows a title in the *Ready* state.

Site Titles can also be associated with a Master Title. Site Titles will show an **S** next to the title. Clicking on that status icon will display the Master title metadata tab.

Figure 4.39: Site Title icons



The title above is in the *Committed* state, as shown by the **C**. This Site title is also unchanged after distribution, as shown by the **S** in the far right. The other icons are used to indicate various types of Site statuses and are described in Chapter 2.



Title and Site Status icons are described in Chapter 2.

Processing Titles

Once the title has been created, its metadata and contents can be updated and its progress can be monitored. When available, the assets are dropped into the designated WatchPoint watchfolder that is monitored for incoming assets per provider. When an asset is received, if a process is defined to map these assets, they are mapped to the created titles. When a title is mapped to an asset or has been edited, the application checks the title's status and sets it accordingly.

When all of the title metadata have been received and the assets specified within the asset's title metadata have been mapped, the title's status is changed to READY.

Depending on template configuration, if the system is not able to map the assets to the title, these assets are moved to the unmapped drive location and a user task might be triggered.

You must locate the file and complete the task. Then, CMS will automatically move the asset to the mapped folder and calculate the title status.

Editing Metadata

You can view or manually updated title metadata within the GUI. To edit metadata:

1. From the **Content** menu, select **Search**. Select the search options to display the Search Results page. See ["Searching for Titles" on page 32](#)
2. Find the title from the Search Results and click the **ID** from the title list as shown below.

Figure 4.40: Select Title

Search Results

Click here to select title

	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	129	C		It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00
<input type="checkbox"/>	128	D		The Scorpions Metal Band - Moment of Glory	CMPA0401285098745584	8	2010-09-21 00:00	2010-12-16 00:00
<input type="checkbox"/>	127	D		Documentary of Nordic Death Metal Bands	CMPA0401285097032363	8	2010-09-21 00:00	2011-04-21 00:00
<input type="checkbox"/>	125	C		Ichigo Becomes a Hollow!	ichi123412341234	6	2010-09-21 00:00	2011-02-25 00:00
<input type="checkbox"/>	124	C		AC/DC Live in London	ACDC123412341234	5	2010-09-21 00:00	2011-04-30 00:00

Delete: Go

30 25 50 100 rows per page

page 1 of 1

go to page: 1

Title information includes both metadata and associated content file information. The screen displays the following:

Figure 4.41: Title Metadata Tab

WatchPoint® CMS
Multiplatform Content Management System

Home Admin Content Rules Workflow Partners Sites Reports

Title Details: AC/DC Live in London C

Metadata Properties History Sites Activity

Package
Title
Movie

▼ Metadata

Asset Name: ACDD

Asset Class: package

Package Asset ID: ACDC123412341234

Creation Date: 2010-09-21 12:00:00

Description: AC/DC Live in London

Product:

Provider Name: TTV

Provider ID: TTV.COM

Version Major: 5

Version Minor: 4

Verb:

Application Type:

Metadata Specification Version:

▼ Provider Content Tier

Provider Content Tier

▼ Custom Fields

Save Save as Draft Preview Cancel

3. Enter the desired values. You can save the title as Draft or Committed.
4. To preview the XML, click **Preview**. Click **Cancel** to return to the title edit page when done previewing.

- Click **Save** to run the validation rules. A confirmation page is displayed.
If the metadata has been changed, the title's revision number is incremented. This is explained in the next section.



*If the title status is **READY** and a file is removed, the title might no longer be complete and the title status might change to **COMMITTED**. The file must be remapped in this case.*

For this example, select **Save as Draft**. The screen displays the following:

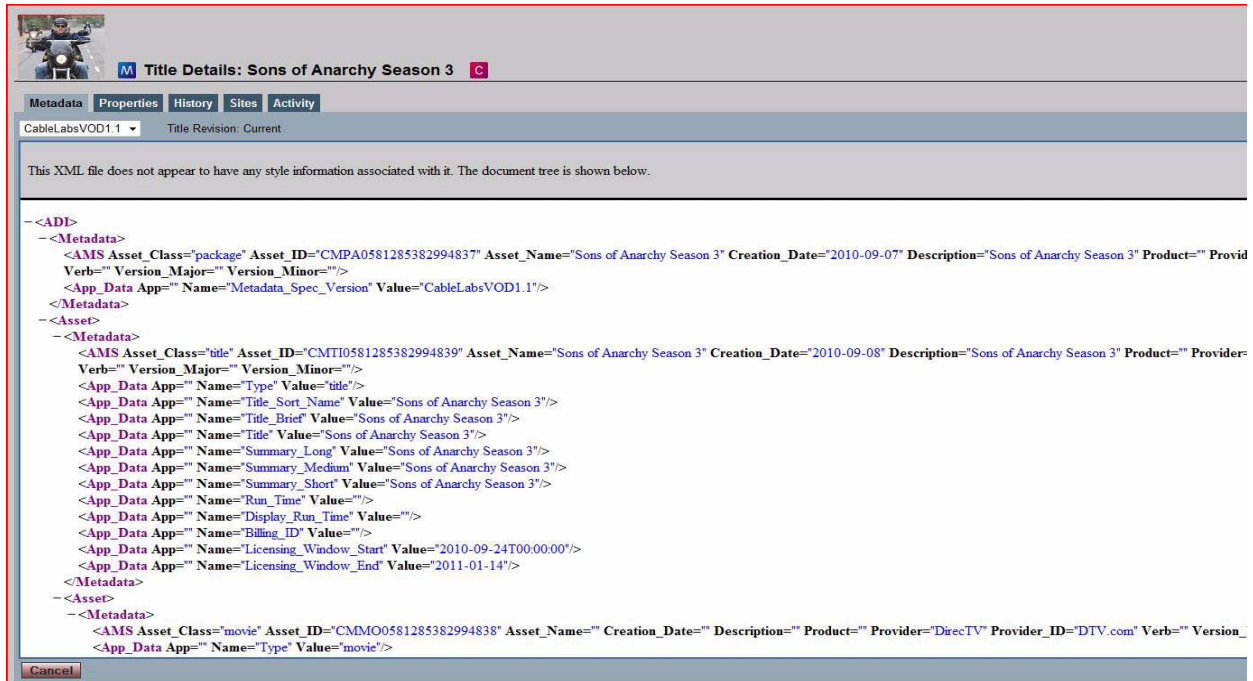
Figure 4.42: Title Saved Confirmation

Previewing the XML

The **Preview** button displays the title's metadata in the selected specification.

- Click the **Preview** button. The screen displays the following:

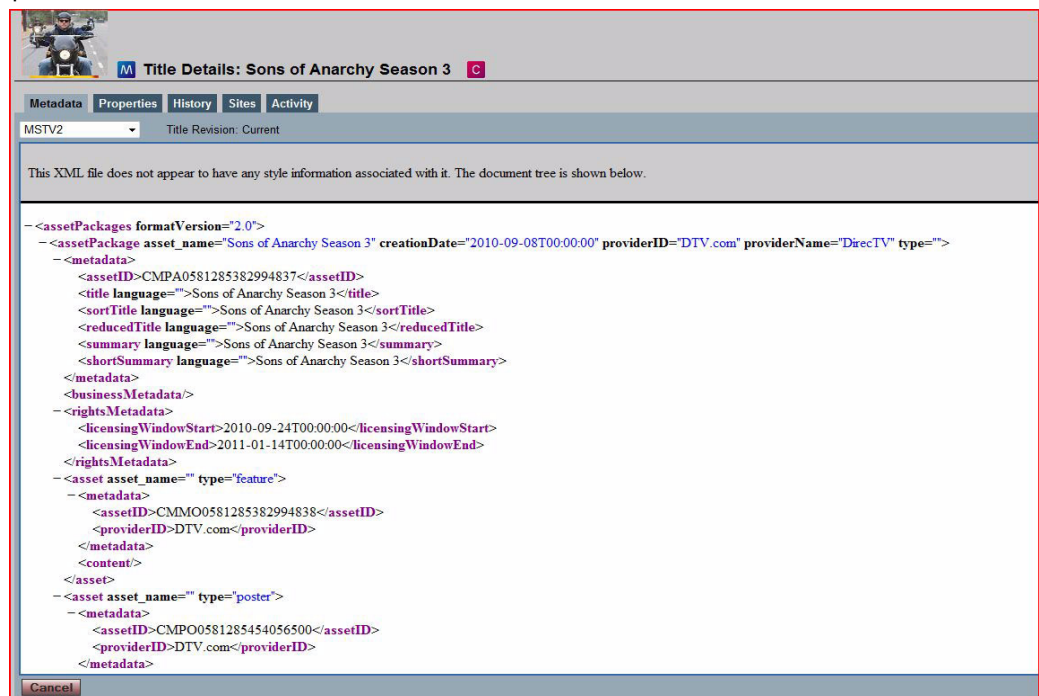
Figure 4.43: Sample Preview Title-CableLabs



The file can be viewed in any of the system's supported specifications. Available options are displayed in the drop-down list.

7. Click **Cancel** to return to the previous Metadata view.
8. Select a different specification and click **Preview**. The screen displays the following:

Figure 4.44: Sample Preview Title MSTV2



The file data is re-translated to conform to the selected specification. This action does not affect the file itself. The **Preview**

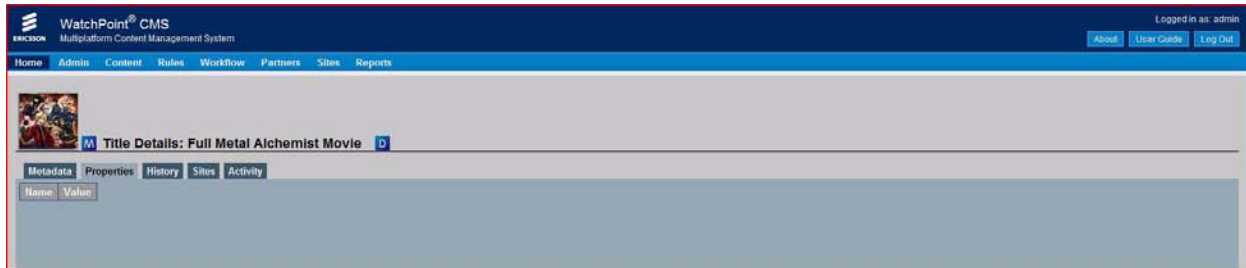
button only displays the title metadata as it would appear in that specification and does not save the view or alter the values.

View Title Properties

The Title Properties tab displays the Name and Value pairs for the title.

1. To view a title's properties, select the **Properties** tab. The screen displays the following:

Figure 4.45: Title Properties Tab



This screen is for viewing only. Click any tab to leave this screen.

View Title History

For historical and tracking purposes, CMS maintains a record of each time the title is saved or a process is performed against the package.

To view a title's history:

1. Select the **History** tab.

Figure 4.46: Title History



CMS maintains the metadata values for older revisions. This is for historical reasons but also allows the data to be rolled back to the earlier version if needed.

2. To view a past version, click the numerical link under the **Revision** field. The screen displays the following:



**Newly-created titles do not display history.
The current revision does not have a link and cannot be viewed in this manner.**

Figure 4.47: Past Revision

The screenshot shows a web application interface for managing media assets. At the top, there's a header with a logo and the title 'Title Details: ACDC Live in London'. Below the header, there are tabs for 'Metadata', 'Properties', 'History', 'Sites', and 'Activity'. The 'Metadata' tab is selected, and the view is set to 'Title Revision 2'. On the left, a sidebar shows a tree view with 'Package' selected. The main content area displays a form for metadata fields. The fields and their values are: Asset Name: ACDD, Asset Class: package (dropdown), Package Asset ID: ACDC123412341234, Creation Date: 2010-09-21 12:00:00, Description: ACDC Live in London, Product: (empty), Provider Name: TTV, Provider ID: TTV.COM, Version Major: 5, Version Minor: 4, Verb: (empty), Application Type: (empty), and Metadata Specification Version: (empty). Below the metadata fields, there's a section for 'Provider Content Tier' with a dropdown menu. At the bottom of the interface, there are four buttons: 'Roll Back' (green), 'Compare' (blue), 'Preview' (grey), and 'Cancel' (red).

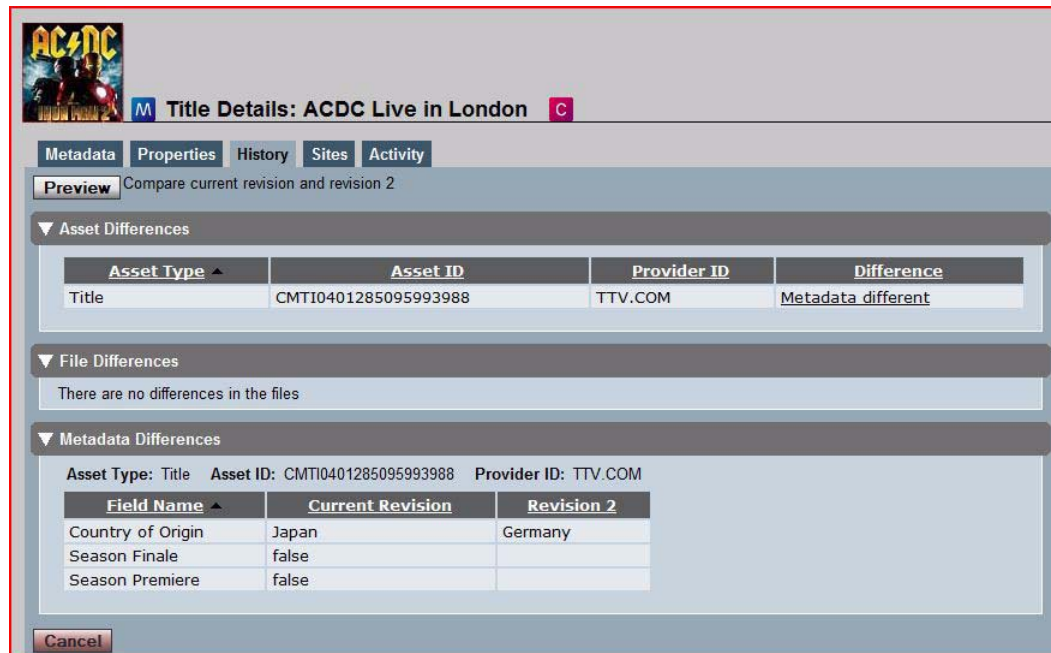
3. Click **Roll Back** to revert the title back to this revision. The Roll Back action copies the data from the selected revision and creates a new revision.

Comparing the Revisions

The **Compare** button displays the differences between revisions. This button is only available on titles that have had changes made to them.

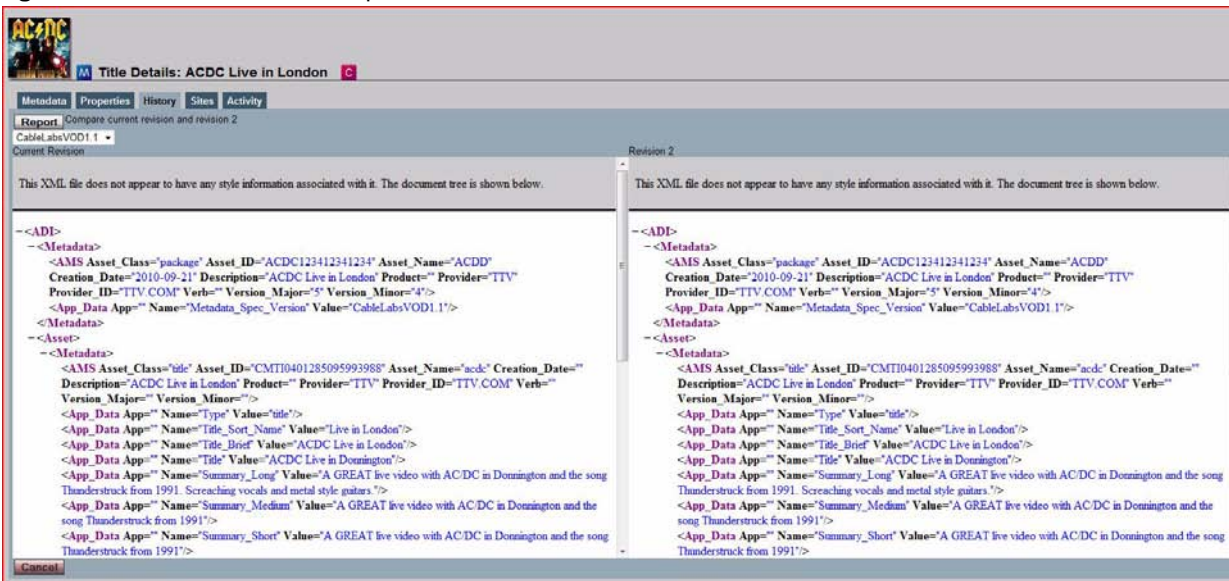
1. Click **Compare**. The screen displays the following:

Figure 4.48: Revision Comparison



You can also compare the XML files by clicking the **Preview** button from this screen as shown below:

Figure 4.49: XML Revision Comparison



The preview can be displayed in any supported metadata format. Click **Cancel** to return to the History page.

Title Distribution Sites

The Sites tab on the Title Details page displays all of the tracking and distribution sites that the title has been targeted, distributed or deployed to.

1. Click on the **Sites** tab. The screen displays the following:

Figure 4.50: Sites List for Master Title

The screenshot shows the WatchPoint CMS interface. The top navigation bar includes Home, Admin, Content, Rules, Workflow, Partners, Sites, and Reports. The main header displays the title "Spongebob Squarepants Movie" with a status icon. Below the header, there are tabs for Metadata, Properties, History, Sites, and Activity. The "Sites" tab is active, showing a table with columns for Status, Distribution Site, and Title Id. The table lists two entries: "S_D" with Title Id "53858" and "Kann_Distribution" with Title Id "53860". Below the table, there is a "Distribution Site" dropdown menu set to "All". Another table shows tracking sites with columns for Status, Tracking Site, Title Id, and Distribution Site. The tracking sites listed are "Kann_Deployment" (Title Id: 53860, Distribution Site: Kann_Distribution) and "S_T" (Title Id: 53858, Distribution Site: S_D). At the bottom, there is a "Manual Targeting" section with options to "Using Rules" or "Select Sites". The "Select Sites" option is chosen, and a list of sites "S_D" and "Kann_Distribution" is shown with a "Target" button.

The above screen shows the Sites tab for a *Master* title. For a *Site* title, the Sites tab will show a slightly different screen:

Figure 4.51: Sites List for Site Title

The screenshot shows the WatchPoint CMS interface for a Site Title. The top navigation bar is the same as in Figure 4.50. The main header displays the title "How to Fix your Car" with a status icon. Below the header, there are tabs for Metadata, Properties, History, Sites, and Activity. The "Sites" tab is active, showing a list of metadata for the site. The metadata includes: Master Title Id: 117, Distribution Site: DTV.com Distribution, Distribution Status: TARGETED, Different from Master: M, and Different from Local: S. Red arrows point to the "Site Title" (the title "How to Fix your Car"), the "Icons" (the status icons C, M, S), and the "Metadata" section.

Manually Targeting Titles

Manual Targeting is only available for Master Titles. This section allows you to target titles to the sites manually in two manners:

- By selecting sites from a list box. This is the default.
- By using rules

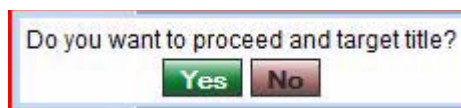
The Manual Targeting pane is displayed below:

Figure 4.52: Manual Targeting Pane



Select the desired site(s) from the list box. Click [Target](#). The Confirmation message is displayed.

Figure 4.53: Confirmation Message



Select **Yes** to target the title. A confirmation message will display on the Manual Targeting Pane:

Figure 4.54: Manual Targeting Confirmation Message



To target a title using rules:

1. Select the [Using Rules](#) radio button
2. Click [Target](#). The Confirmation message is displayed.
3. Select **Yes** to target the title. A confirmation message will display stating that you can view the targeted title request from the *Activity* page.

Activity Tab

The Activity tab on the Title Details page displays all current and completed tasks for the title. The *Current* section displays all current activities along with the status, template used, and start time. The *History* section displays the completed tasks along with the start and end times.

1. Click on the **Activity** tab. The screen displays the following:

Figure 4.55: List of Activities for Title

Status	Work Order ID	Current Task	Template	Start Time	End Time
	246	Targeting Complete	Target Title - v11	2010-09-21 14:40	2010-09-21 14:40
	88	Targeting Complete	Target Title - v11	2010-09-20 15:59	2010-09-20 15:59
	21	End	Package Ingest - v45	2010-09-17 14:12	2010-09-17 14:12

2. To view work order tasks from this screen, click on the Work Order ID. The screen displays the following:

Figure 4.56: View work Order from Targeted Title List

Work Order Tasks

ID: 274307
 Template: [Target Title - v9](#)
 Title: [117737](#)
 Start Time: 2010-05-17 17:19:41
 End Time: 2010-05-17 17:19:52
 Operational Status: COMPLETED
 Admin Status: COMPLETED

Task Name	Task Status	Start Time	End Time	Status
Targeting Complete	100%	2010-05-17 17:19:52	2010-05-17 17:19:52	COMPLETED

Task History

Task Name	Task Status	Start Time	End Time	Status
Start Targeting	100%	2010-05-17 17:19:41	2010-05-17 17:19:41	COMPLETED
Initialize Variables	100%	2010-05-17 17:19:41	2010-05-17 17:19:41	COMPLETED
Loop Start (For Each Site)	100%	2010-05-17 17:19:41	2010-05-17 17:19:41	COMPLETED
Task Image Create Site Title	100%	2010-05-17 17:19:42	2010-05-17 17:19:51	COMPLETED
Task Image Normalize Title	100%	2010-05-17 17:19:51	2010-05-17 17:19:51	COMPLETED
RULES ENGINE Run Local Content Processing	100%	2010-05-17 17:19:51	2010-05-17 17:19:51	COMPLETED
DECISION Is Content Processing Scheduled?	100%	2010-05-17 17:19:51	2010-05-17 17:19:51	COMPLETED
Task Image Request To Distribute Title	100%	2010-05-17 17:19:51	2010-05-17 17:19:52	COMPLETED
DECISION More Sites?	100%	2010-05-17 17:19:52	2010-05-17 17:19:52	COMPLETED

[Restart](#) [Delete](#)

You can Restart or Delete the work order from this screen.

If you click **Restart**, a confirmation message will be displayed stating that the work order is scheduled to be restarted.

If you click **Delete**, a message will display asking if you want to delete. Click **OK** to Delete, or **Cancel** to return to the Work Order.

The example above shows a *Master* Title. A *Site* title will display the same distribution icons on the **Activity** tab that it displays on the **Sites** tab.

TitleLists

A titlelist is an association of titles set in a specific order, comparable to a playlist. The definition can be exported to XML or be applied against a template.

Supported Asset Types

A Title List contains an ordered list of assets. This gives you the flexibility to create a title list of the movie asset from *title 1*, a preview asset from *title 2*, and a logical clip from *title 3*. The supported asset types are dependent on the type of title list. For example, a *logical content title list* should only contain logical clips while a *barker channel* should only contain movie assets. Supported asset type definition determines which asset types can be added to title lists of this type.

Creating a TitleList

The Name and Type are required. To create a title list:

1. From the **Content** menu, select **TitleLists** -> **Create**.

Figure 4.57: Create Basic TitleList

2. Enter a *Name* and optionally a *Description*.
3. Select *Basic* or *Barker* from the drop-down. The default is Basic.
4. Select the Content Class from the drop-down.
5. Click **Save**. The list is created and its Details page is displayed for titles to be added. Titles are not part of the definition and can be added later.
6. Click **Add Asset(s)**. The Search page is displayed with the following options:
 - Perform a Quick Search
 - Select a Saved Search.
 - Perform a Basic Search
 - Perform an Advanced Search
7. These options are described in [“Searching for Titles” on page 32](#). The search screen is shown below.

Figure 4.58: Search dialog

The search dialog window has a title bar 'Search'. It contains a 'Quick Search' section with a text input field and a 'Go' button. Below it is a 'Saved Searches' section with a dropdown menu showing 'Show All' and another 'Go' button. At the bottom, there are two tabs: 'Basic' (selected) and 'Advanced'.

- For this example, select a saved search from the drop-down and click **Go**. The screen displays the following:

Figure 4.59: Committed-Only Title List

The 'Search Results' table displays a list of titles. A red arrow points to the 'Select Titles' link above the table. The table has columns: Id, Status, Thumbnail, Title Brief, Asset ID, Major Version, License Start, and License End.

Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
128	COMMITTED		It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00
126	COMMITTED		Scorpions - the first German Metal band	CMPA0401285096605517	10		
125	COMMITTED		Ichigo Becomes a Hollow!	ich123412341234	6	2010-09-21 00:00	2011-02-25 00:00
128	COMMITTED		ACDC Live in London	ACDC123412341234	8	2010-09-21 00:00	2011-04-30 00:00
118	COMMITTED		Full Metal Alchemist Movie - Conqueror of Shamballa (Full English)	CMPA0401285093603335			
112	COMMITTED		How to Fix your Car	CMPA0401285093125969		2009-08-12 00:00	2011-07-30 00:00

- The search results screen above shows titles that were matched by selecting only *Committed Titles* from the Save Search option. Click the appropriate boxes to select titles.
- Click the down arrow next to the title(s) you wish to add. The following screen displays:

Figure 4.60: Expanded Title List

The 'Expanded Title List' table shows details for selected titles. It includes columns for Asset ID, Asset Type, and Asset Name. A red arrow points to the 'Add to existing titlelist' button.

Asset ID	Asset Type	Asset Name
902	PACKAGE	boondocks
903	MOVIE	boondocks season 3
904	TITLE	boondocks season 3

Asset ID	Asset Type	Asset Name
890	PACKAGE	bleach
891	MOVIE	bleach episode 19
892	TITLE	bleach episode 19

- The *Asset Type*, and *Asset Name* for the title display. You can add all of the title assets to the title list, or just one or two of the assets.
- Check the boxes next to the assets you wish to add to the title list. Selecting the check box for the Title will select the *PACKAGE* asset.
- Select *Add to existing titlelist* from the drop-down menu.

Figure 4.61: TitleList Details

The 'TitleList Details: CartoonNetwork' window shows the details for a title list. It includes fields for Name (CartoonNetwork), Type (Basic), and Description (All titles to go to Cartoon Network). Below these fields is a table with columns: Id, Status, Title Brief, Asset ID, Major Version, License Start, License End, Asset ID, Asset Type, and Asset Name. At the bottom, there are buttons: Save, Add Asset(s), Remove Asset(s), and Cancel.

Id	Status	Title Brief	Asset ID	Major Version	License Start	License End	Asset ID	Asset Type	Asset Name
129	COMMITTED	It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00	902	PACKAGE	
129	COMMITTED	It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00	903	MOVIE	
125	COMMITTED	Ichigo Becomes a Hollow!	ich123412341234	6	2010-09-21 00:00	2011-02-25 00:00	890	PACKAGE	
125	COMMITTED	Ichigo Becomes a Hollow!	ich123412341234	6	2010-09-21 00:00	2011-02-25 00:00	891	MOVIE	
125	COMMITTED	Ichigo Becomes a Hollow!	ich123412341234	6	2010-09-21 00:00	2011-02-25 00:00	892	TITLE	

14. Click **Go**. The *Titlelist Details* page displays the added titles.

You can also search the entire list by selecting the default *Show All* from the drop-down.

Creating a Barker Titlelist

A Barker Titlelist contains a playlist of specific titles that are used for promotion and advertising. The *Barker* option has some additional fields.

These include the Daily Payout times, the Payout dates, and the Content Class. You can choose any of the content classes associated with your user.

1. To create a Barker Titlelist, select *Barker* from the **Type** drop-down. The screen displays the following:

Figure 4.62: Create Barker TitleList

Create TitleList

* Name:

* Type:

Description:

Content Class:

Daily Payout Start Time:

Daily Payout End Time:

Payout Start Date:

Payout End Date:

2. Fill in the fields. The required fields are marked by an asterisk.
 - Select the **Content Class** that you are associated with from the drop-down list.
 - Enter the times when all the assets from the Title List will start in the **Daily Payout Start Time** field.
 - Enter the time when all the assets from the Title List will finish in the **Daily Payout End Time** field.
 - Click on the **Payout Start Date** field to bring up the calendar. Select the date that the assets from the Title List will start on.
 - Click on the **Payout End Date** field to bring up the calendar. Select the date that the assets from the Title list will end on.
3. Click **Save**. The screen displays the following:

Figure 4.63: Barker TitleList Details

Titlelist Details: BarkerEspn

* Name:

* Type:

Description:

Content Class:

Daily Playout Start Time:

Daily Playout End Time:

Playout Start Date:

Playout End Date:

	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
<input type="button" value="Save"/>	<input type="button" value="Add Asset(s)"/>	<input type="button" value="Remove Asset(s)"/>	<input type="button" value="Cancel"/>				

- Follow steps 6 through 14 in the previous section to add assets to this titlelist.

Managing the TitleList

Once a titlelist has been created, it can be viewed and modified. A TitleList is defined by a *Name* and an *ID*.

- To manage the title list, select **Content ->TitleLists ->View**. The screen displays the following:

Figure 4.64: View TitleLists

Titlelists

	Id	Name
<input type="checkbox"/>	49	AdultSwim
<input type="checkbox"/>	26	Comedy Central
<input type="checkbox"/>	50	FOX
<input type="checkbox"/>	27	FX
<input type="checkbox"/>	93	HBO
<input type="checkbox"/>	47	HBO2
<input type="checkbox"/>	10	Kinials test
<input type="checkbox"/>	94	LambertDuets
<input type="checkbox"/>	54	SHO4
<input type="checkbox"/>	83	Tapans Test

Delete

10 25 50 100 rows per page

page 1 of 2

go to page: 1

- Click the [Name](#) to view and manage the list.

Figure 4.65: Titlelist Details

Titlelist Details: CartoonNetwork

* Name:

* Type:

Description:

Content Class:

	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End	Asset Id	Asset Type	Asset Name
<input type="checkbox"/>	123	COMMITTED	It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00	902	PACKAGE	
<input type="checkbox"/>	129	COMMITTED	It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00	903	MOVIE	
<input type="checkbox"/>	129	COMMITTED	It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00	904	TITLE	
<input type="checkbox"/>	125	COMMITTED	Ichigo Becomes a Hollow!	ichi123412341234	6	2010-09-21 00:00	2011-02-25 00:00	890	PACKAGE	
<input type="checkbox"/>	125	COMMITTED	Ichigo Becomes a Hollow!	ichi123412341234	6	2010-09-21 00:00	2011-02-25 00:00	891	MOVIE	
<input type="checkbox"/>	125	COMMITTED	Ichigo Becomes a Hollow!	ichi123412341234	6	2010-09-21 00:00	2011-02-25 00:00	892	TITLE	

- You can optionally modify the list's *Name*, *Description*, and titles.
- You can change the order that the titles are displayed in by dragging the row using the up and down arrow icons, and dropping the dragged row to the target row.
- After making any changes, click **Save**.
- To return to the screen showing the listing of the Title lists, click **Cancel**.

7. To add more titles, click **Add Asset(s)**

To remove a title from the list:

1. Select the checkbox for the title you want to remove.
2. Click **Remove Assets(s)**. A confirmation message is displayed.

Deleting Titlelists

To delete a Titlelist from the Titlelists page:

1. From the **Content** menu, select **TitleLists** -> **View**.
2. Check the box next to the titlelist you want to delete. Select **Delete** from the drop-down.
3. Click **Go**. The confirmation message displays:

Figure 4.66: Confirmation Message



If you select *Yes*, the following message will display:

Figure 4.67: Successfully Deleted Message



If you select *No*, the following message will display:

Figure 4.68: Operation Aborted Message



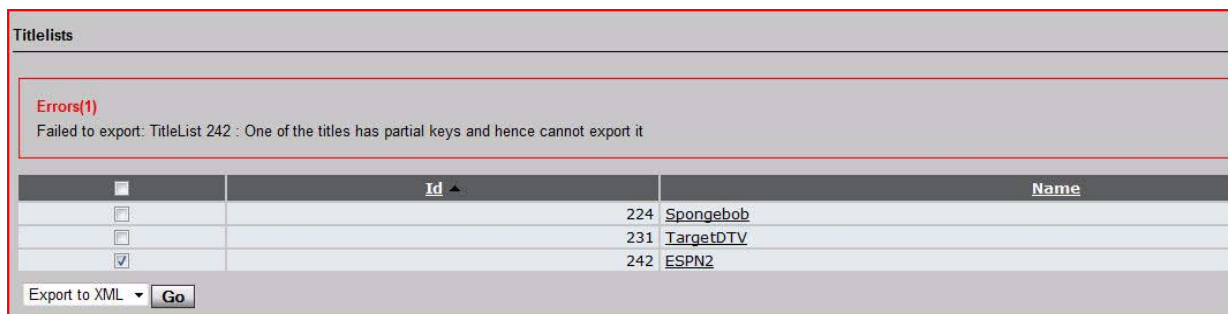
Exporting Titlelists

To export a Titlelist to XML:

1. From the **Content** menu, select **TitleLists** -> **View**.
2. Check the box next to the titlelist you want to export. Select **Export to XML** from the drop-down.
3. Click **Go**. The titlelist will be exported.

If they fail to export, an error message will display:

Figure 4.69: Export Failed Message



Run Titlelist Template

To run a template:

1. Select the titlelist you wish to run the template against from the list.
2. Select **Run Template**. A drop-down list displays available templates.
3. Click **Go**. The confirmation message displays.

Content Classes

The Content Class and Provider are required when creating titles. User's are assigned access to one or more Content Providers, and can only access those providers. This enables another layer of security. The Administrator is the only user that has access to all content classes.

The user must select the content provider first. If the user has access to only one content provider, the selection is made automatically. Once the content provider is selected, the user is presented with the available content categories for the provider. After the content class selection is confirmed, these fields cannot be modified. The *Provider Name* and *Provider ID* fields are automatically populated in the metadata fields.

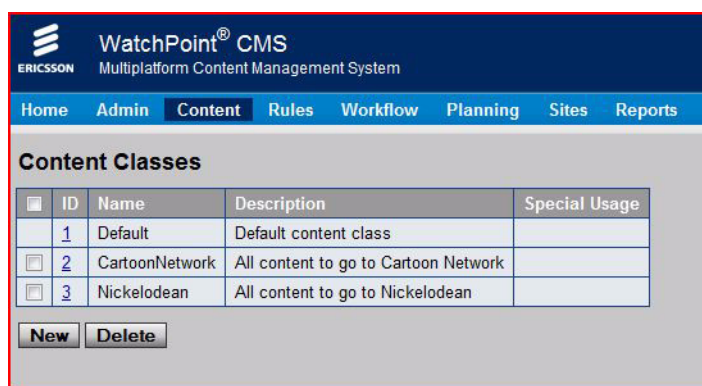
CMS 1.5 is installed with a *Default* content class with no default values. It includes out-of-the-box configuration of optional values based on the CableLabs 1.1 specification. It is used as a placeholder for any content created without any content class classification. This can be used for titles that are upgraded from CMS 1.2.

Content Class List

The Content Class list screen shows the list of currently defined content classes. From this screen you can create a new content class or edit existing ones.

1. To access the list of content classes, select **Content-> Content Class**. The screen displays the following:

Figure 4.70: Content Classes



	ID	Name	Description	Special Usage
<input type="checkbox"/>	1	Default	Default content class	
<input type="checkbox"/>	2	CartoonNetwork	All content to go to Cartoon Network	
<input type="checkbox"/>	3	Nickelodean	All content to go to Nickelodean	

New **Delete**

2. To create a new content class, click **New**. The screen displays the following:

Figure 4.71: New Content Class

New Content Class

Main Metadata

Name

Description

Special Usage None

Save Copy Cancel

3. Enter a *Name* and *Description* for the content class. The name must be unique and cannot contain more than 25 characters.
4. If the Content Class is Pre-Roll or Post-Roll, select this option from the *Special Usage* drop-down message.
5. Click on the **Metadata** tab. The screen displays the following:

Figure 4.72: New Content Metadata

New Content Class

Main Metadata

Package

- Title
- Asset Name
- Asset Class
- Package Asset ID
- Creation Date
- Description
- Product
- Version Major
- Version Minor
- Verb
- Application Type
- Metadata Specification Version

Provider Content Tier

Custom Fields

Save Copy Cancel

Drop down menu

Auto-populate

The *Package* / fields display the auto-populate icon shown above.



The Left panel displays all the available asset types. The Right panel displays a list of fields for the selected asset.

6. Each field has a down arrow. When clicked, it brings up a pop-up menu with a list of actions available for the field, such as lock and unlock. Locked fields are described in ["Locked Fields" on page 69](#).
7. Optionally, fill in the following fields:
 - *Asset Name* - The identifying name of the asset

- *Asset Class* - Select the class of the asset, such as Package, Title, or Movie, from the drop-down. Repeat this step for each asset class added.
 - *Package / –* that uniquely identifies the specific asset. This field cannot be empty, so if nothing is entered, it is automatically populated.
 - *Product* - Type in product information.
 - *Creation Date* - Use the Calendar to select this date
 - *Version Major*– Major version specified in the metadata
 - *Version Minor*– Minor version specified in the metadata
 - *Application Type* - Category of video, such as VOD or SVOD. If this field is filled in, it will be designated as a Global field in the **Edit Metadata for Partner** screen. [See “Content Class Metadata Icons” on page 183](#)
 - *Metadata Specification Version* - The version for the metadata, such as CableLabs 1.1 or MSTV2.
8. Click on the *Title* to add Title metadata.
 9. Click on the *Movie* to add Movie metadata. Repeat these steps for all metadata as needed, such as Preview, Poster, Box Cover, Trick File, and Barker. When you have finished adding all the metadata, click **Save**.
 10. The confirmation message will display. The new Content Class will be added to the listing.

Clicking the **Cancel** button returns you to the previous screen.

Copying a Content Class

A content class can be copied as a starting point for a new content class.

1. To copy a content class, select **Content-> Content Class**.
2. Select a content class from the listing by clicking the [ID](#) link. The **Edit Content Class** screen displays.
3. Click the **Copy** button. The screen displays the following:

Figure 4.73: Copy Content Class

New Content Class

Main Metadata

Name: Copy of CartoonNetwork

Description: all titles go to cartoon network

Special Usage: Pre Roll

Save Copy Cancel

4. Edit the copy as desired. Click **Save** to save the copy. The screen displays the following:

Figure 4.74: Copied Content Class

Edit Content Class

Content Class has been successfully saved.

Main **Metadata**

Name: Copy of Cartoon Network

Description: all titles go to Cartoon Network Adult Swim

Special Usage: None

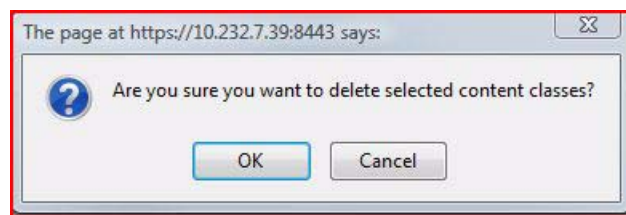
Save Copy Cancel

5. The copied Content Class will be added to the listing.

Deleting a Content Class

1. To delete a content class, select **Content-> Content Class**.
2. Check the box next to the content class that you wish to delete.
3. Click the **Delete** button. The screen displays the following:

Figure 4.75: Confirmation dialog



4. Click **OK**. The Content Class is deleted.



Content classes can be deleted in Batch by selecting multiple check boxes. Content classes that are associated with titles can not be deleted.

Locked Fields

The fields on the **Metadata** tab can be locked for any content class. These fields cannot be edited by any user. If the default value is not specified, it will always be blank. If a default value is specified by the content class for a locked field, it cannot be changed.

1. To lock a field, click the down arrow next to the field. The *Lock* option displays as shown in the following screen.

Figure 4.76: Lock option

The screenshot shows a software interface with a left sidebar containing a tree view with items: Package, Title, Movie, Logical Clip, Preview, Poster, Box Cover, Trick File, Barker, and Encrypted. The 'Main' tab is active, displaying a form with fields: Asset Name, Asset Class, Asset ID, Creation Date, Description (with text '5 minute trailer to show after the main title.'), Product, Version Major (2), Version Minor (4), Verb, Application Type, Mark In, and Mark Out. A 'Lock' button is located to the right of the Description field.

2. Click **Lock**. The lock icon displays as shown below:

Figure 4.77: Locked fields

The screenshot shows the 'Main' tab of a 'New Content Class' form. The left sidebar is the same as in Figure 4.76. The form fields are: Asset Name (FX), Asset Class (title), Asset ID (fx09870987098766), and Description (Sons of Anarchy Season Premier). Lock icons (a padlock) are visible on the right side of the Asset Class, Asset ID, and Description fields. A green label 'Locked fields' with arrows points to these three fields.

3. To unlock a field, click the drop down arrow from the locked field. The screen displays the following:

Figure 4.78: Unlock option

The screenshot shows the 'Main' tab of an 'Edit Content Class' form. The left sidebar is the same as in Figure 4.76. The form fields are: Asset Name, Asset Class, Asset ID, Creation Date, Description (with text '5 minute trailer to show after the main title.'), Product, Version Major (2), Version Minor (4), Verb, Application Type, Mark In, and Mark Out. An 'Unlock' button is located to the right of the Description field.

4. Click **Unlock**. The field will be unlocked.
5. Click **Save** to save your changes, **Copy** to copy them to another content class, or **Cancel** to return to the content class list.

Editing a Content Class

To Edit an existing content class, click on the [ID](#) link for that content class. The screen shown in Figure 4.69 displays.



The Special Usage field can only be changed for a Content Class that does not have any associated titles.

CHAPTER

5

RULES

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Defining Rules

Rules are comprised of defined metadata values and conditions that are used as criteria for an action. These rules can then be grouped together to make a *Rule Set*.

The following rule types are available:

- Normalization – Conforms existing data to local standards.
- Validation – Determines if a title contains valid data meeting site specification integrity.
- Content Processing – Initiates a selected template to process the matching title.
- Targeting - Specifies all the sites where titles are to be targeted to.

Regardless of the rule context, all rules are comprised of user-specified criteria based on metadata values. Metadata criteria is applied both to determine titles the rule will be applied to and to determine if that title matches the applied rule. A rule must contain at least one, but can have many criteria. Within a rule, multiple criteria are seen as “and” or “or” conjunctions. A condition can also have one or more sets of child criteria with one level of nesting.




Metadata validation for specification conformity is performed by the spec plug-in.

Validation, Normalization, and Content Processing rule sets can be associated with local sites or the global site.

Rule Sets Fields

The Rule Sets lists contain the following fields:

-  Sort button - Moves the rule set up or down in the listing
- Check box - Selects or de-selects the rule set
- ID - System Generated ID
- Enabled - Indicates if the rule set is enabled or disabled
- Rule Set Name - Unique identifier for the rule set
- Sites - Logical or Distribution site that the rule set applies to
- Update Date - The most recent date and time that the rule set was edited
- UUID - Global unique identifier

The screen below shows a rule set list screen:

Figure 5.1: Normalization Rule Sets List

Normalization Rule Sets							
	Sort	ID	Enabled	Rule Set Name	Sites	Update Date	UUID
IN		3	●	AU Rating Normalization	ImmediateDist.	2010-05-13 14:49:35	8cf13854-b59
IN		4	●	NZ Rating Normalization rule		2010-05-13 14:49:36	2e3832f6-fa4f
IN		5	●	ATT ALL FOD to MOD		2010-05-13 14:49:37	97980c0f-7aa
IN		6	●	ATT CBS_NETSHOWS		2010-05-13 14:49:38	fa55ecac-0e1
IN		7	●	ATT CBS_NETSHOWS_HD		2010-05-13 14:49:39	74841b9a-b6
IN		8	●	ATT_FLIIX	ChDist4	2010-05-13 14:49:40	882c74d6-1b

Creating Validation Rules

Basic validations are applied to incoming data by the spec plugin. The rules described here are used to perform customer-specific validations.

To create a validation rule:

1. From the **Rules** menu, select **Validation**. The *Validation Rule Sets* screen displays with a list of all validation rule sets.
2. Click the **Create** button. The screen displays the following:

Figure 5.2: Create New Validation Rule Set

Create New Validation Rule Set

Select sites to have this rule set apply to site specific copies of a title. Select global to have this rule set apply to the master copy of a title.

▼ Sites

☐ Global
☐ Local

next >>

Select the sites that this rule set applies to. If you select **Global**, the rule set will apply to a master copy of the title. If you select **Local**, additional selections will display as shown below:

Figure 5.3: Select Local Sites for Validation Rule Set

Create New Validation Rule Set

Select sites to have this rule set apply to site specific copies of a title. Select global to have this rule set apply to the master copy of a title.

▼ Sites

☐ Global
☒ Local

Select: All None

☐ test site
☐ MediaRoom
☐ OpenBranch
☐ Logical Site
☒ Yo's Logical Site
☐ LucyLuLogic

next >>

Figure 5.4: Create Validation-Filter

Create New Validation Rule Set

This wizard will guide you through the process of creating a new rule. By creating a title filter you can restrict the rule to only apply to a subset of titles (e.g. titles from a certain provider). Create filter criteria by selecting a field, an operator and an operand.

Title Filter

Not Equals

AND + ()

<< prev next >>

3. Create the Title Filter. The filter determines if the rule will be applied against a title. If the filter is not matched, the rule is not run. The filter is comprised of a field, an operand, and a condition. Select the filter's text box.

Figure 5.5: Select Field

TITLE FILTER

AND f

- Package
- Asset Name
- Asset Class
- + Package Identifier
- + Asset Creation Metadata
- + Description
- + Product Information
- + Provider

Click the left text box. A list of available fields is displayed. A + sign indicates child attributes.

Is Empty () +

4. Select the operand from the drop-down. The options are limited to operands applicable to the selected field.
5. Enter the value to be checked. If a value is not needed, the text box does not display.

Figure 5.6: No Value Needed

This wizard will guide you through the process of creating a new rule. By creating a title filter you can restrict the rule to only apply to a subset of titles (e.g. titles from a certain provider). Create filter criteria by selecting a field, an operator and an operand.

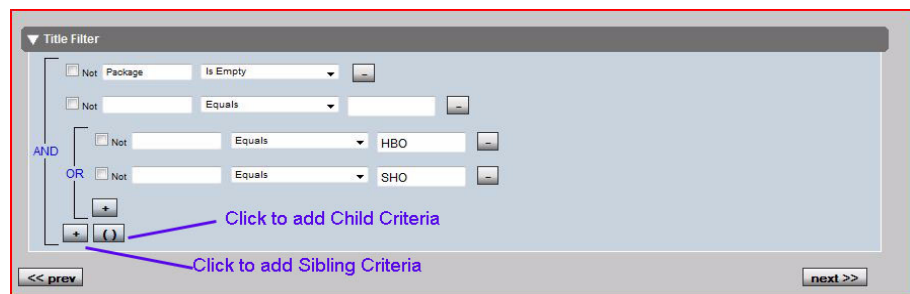
TITLE FILTER

AND PACKAGE.Provider Name Is Empty () +

next >>

6. To add criteria, click the + sign and complete the fields. To add a set of child criteria to the current criteria, click () and complete the fields.

Figure 5.7: Add Criteria



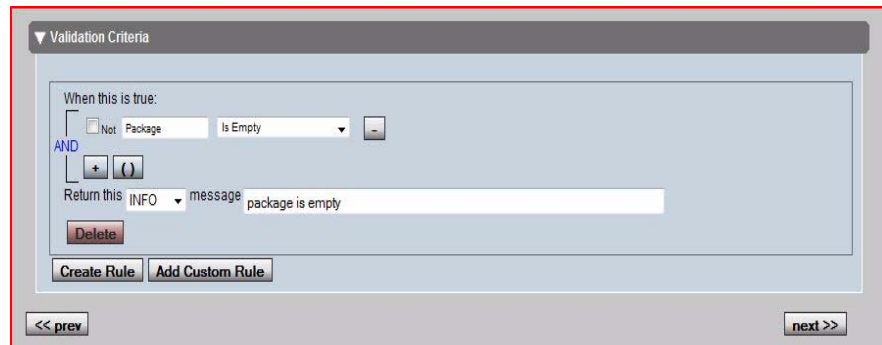
7. Click the **next>>** button. The screen displays the following:



Click the AND/OR conjunction to toggle.

8. Click **Create Rule**.
9. Add the validation criteria and how the system will handle the result.
10. Select if the message will be informational, warning, or failure by selecting from the *Return this* drop-down.
11. Add additional rules and messages by clicking **Create Rule** again.

Figure 5.8: Add Validation Criteria



12. Enter the criteria. Multiple criteria can be entered.
13. Select whether an Info, Warn, or Fail message is returned if the criteria just entered is found to be true. Enter the message text.
 - a. To include Cable Labs 1.1 validation rules, click **Add Custom Rule**.
 - b. Click the *When this is true:* field from the Validation Criteria section. A list of Cable labs options will display.
 - c. Select the rule from this drop down. Select the message type from the *Return this* drop-down. The following screen displays:

Figure 5.9: CableLabs Validation Criteria

Validation Criteria

When this is true:

AND ☐ Not Title Status Equals Ready(READY) ☐ Ignore Case

Return this INFO message missing end date

Delete

When this is true:

Cable Labs 1_1.Chapter size check > 1024

Return this INFO message checksum error

Delete

Create Rule Add Custom Rule

14. Click **next>>** to set the rule's properties.

Figure 5.10: Rule Properties

Create New Validation Rule Set

Enter a descriptive name for your rule. You can inactivate the rule by unchecking the enabled box.

Rule Properties

Rule Set Name MissingBoxCover ☒ Enabled

<< prev next >>

15. Enter the rule's name. By default, the rule is enabled. Disable the rule if needed.

16. Click **next>>**. The screen displays the following:

Figure 5.11: Save Validation Rule Set

Create New Validation Rule Set

Your rule definition is listed below. You can change any rule parameters on this screen. Once you are satisfied with your rule you can save your rule.

Sites

☐ Global
☒ Local

Select: All None

- ☐ test site
- ☐ MediaRoom
- ☐ OpenBranch
- ☐ Logical Site
- ☒ Yo's Logical Site
- ☐ LucyLuLogic

Title Filter

☐ Not Package Is Empty -

☐ Not Package.Description Is Empty -

AND

☒ Not Package Contains Unparsable -

OR

☒ Not Package.Provider Contains Unparsable -

Validation Criteria

When this is true:

☐ Not Package Is Empty -

AND

Return this INFO message package is empty

Delete

Create Rule Add Custom Rule

Rule Properties

Rule Set Name CheckEmptyPackage ☒ Enabled

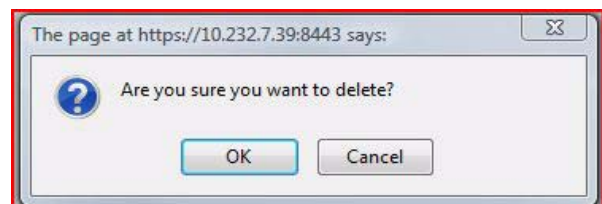
Save Cancel

17. Review the information and make any changes needed.
18. Click **Save**. The *Validation Rule Sets* list page is displayed showing the newly added rule set.

Deleting a Rule

1. To remove a rule, click the check box next to the rule that you wish to delete from the Validation Rule Sets screen.
2. Click **Delete**. The following screen displays:

Figure 5.12: Delete Rule Confirmation



3. Click **OK**. The rule will be removed from the list.

Creating Normalization Rules

Normalization rules apply localized and site specific data to the metadata.

To create normalization rules:

1. From the **Rules** menu, select **Normalization**.
2. Click the **Create** button. The *Create New Normalization Rule Set* screen displays.
3. Select **Global** or **Local** sites from this menu. Click **next>>**. The screen displays the following:

Figure 5.13: Select Event

4. The first parameter set for a normalization rule is the event. The event is the action that will invoke the rule. Select one or more events.
 - *Ingest* – This event is triggered when a title is created or updated through a content ingest workflow template.
 - *UI Create* – This event is triggered when a new title is manually created through the Content UI.
 - *UI Update* – This event is triggered when a new title is manually updated through the Content UI.
 - *Schedule* – If this box is checked, the rule will be available in the list of rules which can be scheduled on the jobs page. Checking this box without creating a new job will not run the rule.
 - *Targeted* – If this box is checked, when a title is targeted this rule will be applied on the local site copy if the criteria is satisfied.
4. Click **next>>** to define the title filter. This defines the content the rule is applied to. For the rule to be applied, the content must meet the conditions.

Figure 5.14: Title Filter for Normalization Rule

Create New Normalization Rule Set

By creating a title filter you can restrict the rule to only apply to a subset of titles (e.g. titles from a certain provider). Create filter criteria by selecting a field, an operator and an operand.

▼ Title Filter

☐ Not Equals

AND

<< prev next >>

5. Click the field's text box and select the metadata field from the list.
6. Select the operator from the drop-down. The list only includes options that are valid for the chosen field.
7. Optionally, enter the value to be matched.
8. Click **next>>** to create the normalization rule.

Figure 5.15: Normalization Rule Criteria

Create New Normalization Rule Set

By creating a title filter you can restrict the rule to only apply to a subset of titles (e.g. titles from a certain provider). Create filter criteria by selecting a field, an operator and an operand.

▼ Title Filter

☒ Not Package.Provider Contains Unparsable

☒ Not Package.Product In Is Empty

AND ☒ Not Package.Asset Name Equals HBO ☒ Ignore Case

OR ☒ Not Package.Package Id Is Empty

<< prev next >>

9. Click **Create Rule**.

Figure 5.16: Normalization Data

Create New Normalization Rule Set

Add normalization rules by specifying a set of criteria and a set of actions to take when that criteria is met.

▼ Data Modification

1

When this is true:

☐ Not Package.Description Is Empty

AND

do this:

MATCHED.Package.Description Append description is er

Delete

Reorder Create Rule Add Custom Rule

<< prev next >>

5. The system automatically numbers each of the rules at the top of the page. You can add more criteria here or re-order the existing rules.
 - a. To include AT&T normalization rules, click **Add Custom Rule**.

- b. Click the *When this is true:* field from the Validation Criteria section. A list of AT&T options will display.
- c. Select the rule from this drop down. The following screen displays:

Figure 5.17: AT&T Custom Rules

- d. Enter the number of days before or after the license window start or end date as required
6. Click **next>>**. The *Rule Properties* screen displays.
7. Enter a name for your new rule set. Click **next>>**. The new rule set screen is displayed.
8. Click **Save**. The rule set will be added to the Rule Sets screen.

Modifications Actions

Normalization rules are designed to take action on a metadata field. The action will be performed on any records matching the conditions specified in the *When this is true* section of the rule. The action is specified by selecting the field to be modified, the modification operation and a modifier value.

Matched Field

Metadata records can contain multiple instances of a simple or complex type. If the operation should only apply to the matched instance of the field, then select the field under the MATCHED node of the tree. If the operation should apply to all instances of the field, select the field under the full field tree. The Matched field option is normally used with the *Evaluate Child Fields* operator in the selection criteria.

Figure 5.18: Matched Field Modification

1
When this is true:
AND ☐ Not Title.Rating Equals AU_G ☒ Ignore Case
do this:
MATCHED.Title.Rating Change G +
Delete

2
When this is true:
AND ☐ Not Title.Rating Equals AU_M ☒ Ignore Case
do this:
MATCHED.Title.Rating Change M +
Delete

If you want to match two fields and ignore the upper and lower case, such as matching **AUG** and **Aug.**, check the *Ignore Case* checkbox.

Modifying a Different Field

The modification can be applied to another field.

Figure 5.19: Modifying another Field

▼ Data Modification

1
When this is true:
☒ Not Package.Asset Name Equals \$ ☐ Ignore Case -
AND ☐ Not Title.Genre Is Empty -
+
do this:
MATCHED.Package.As Append 2 -
Movie.Copy Protection Change True + -
Delete

Reorder Create Rule Add Custom Rule

Evaluating Child Fields

To modify a different field other than the one specified in the selection criteria, select the field from the full tree.

Figure 5.20: Evaluate Child Fields Option

Create New Normalization Rule Set

Add normalization rules by specifying a set of criteria and a set of actions to take when that criteria is met.

▼ Data Modification

1

When this is true:

☐ Not Package.Description Is Empty

AND

do this:

MATCHED.Package.Description Append description is er

Delete

Reorder Create Rule Add Custom Rule

<< prev next >>

This option is seen if the selected metadata field is a complex type which contains other fields, similar to a directory tree. If *Evaluate Child Fields* is selected, additional conditions can be specified to select an instance of the complex field. For example, to create a rule that would change the role for an actress, select the complex field which contains the actress' role, first and last name, and select the *Evaluate Child Fields* operator.

By selecting the first and last name child fields, the correct instance of the complex type can be selected. An action can then be specified using the Matched Item to only modify the matched instance of the complex field.

Figure 5.21: Child Fields

1

When this is true:

PACKAGE.Product Information Evaluate Child Fields

AND

do this:

Product Information Equal

Product

Append

Delete

Reorder Create Rule

In this instance, the child field of Product Information is Product.

Rule Order

Normalization rule sets can have multiple criteria and resulting actions. Each pair forms a rule within the rule set. The pairs are numbered automatically when they are created. The order of performance can affect the final results so the CMS allows the reordering of rules within the set.

To change the rule order:

1. Click **Reorder** from the *Data Modification* section of the rule. This will activate the numbered boxes for each rule.
2. Enter a new value in the box of the rule to be moved corresponding to the desired position of the rule.

Figure 5.22: Reordering Rules

The screenshot shows a 'Data Modification' window with two rules, numbered 1 and 2. Rule 1 has a condition 'When this is true:' with two parts connected by 'AND'. The first part is 'Not Package.Asset Name Equals \$' with an 'Ignore Case' checkbox. The second part is 'Not Title.Genre Is Empty'. The action 'do this:' is 'MATCHED.Package.As Append 2' and 'Movie.Copy Protection Change True'. Rule 2 has a condition 'When this is true:' with one part 'Not Package.Product Is Empty'. The action 'do this:' is 'Package.Description Remove'. At the bottom are buttons for 'Reorder', 'Create Rule', and 'Add Custom Rule'.

3. When complete, click **Stop Reordering**.
4. Click **next>>** to set the rule's properties.

Figure 5.23: Set Rule Properties

The screenshot shows a 'Create New Normalization Rule Set' dialog. It has a text field for a descriptive name and an 'Enabled' checkbox. Below is a 'Rule Properties' section with a 'Rule Set Name' field containing 'ATTNoEmptyFields' and an 'Enabled' checkbox. At the bottom are '<<prev' and 'next>>' buttons.

5. Enter the rule set's name and optionally select the box to indicate the rule set is enabled.
6. Click **next>>** to review and save the rule set.

Figure 5.24: Review and Save

Create New Normalization Rule Set

Your rule definition is listed below. You can change any rule parameters on this screen. Once you are satisfied with your rule you can save your rule.

► Sites

▼ Event Selection

☐ Ingest ☒ UI Create ☒ UI Update ☐ Schedule

☐ Targeted

▼ Title Filter

☒ Not Package Is Empty -

☒ Not Package.Package Is Empty -

☒ Not Package.Descripti Is Empty -

AND

☒ Not Package.Descripti Is Empty -

OR

☐ Not Package.Package Is Empty -

+ +

► Data Modification

▼ Rule Properties

Rule Set Name ☒ Enabled

The rule can be directly modified on this page without returning to a previous step in the wizard.

- Click **Save**.

Running Normalization Against All Titles

Normalization sets can be applied against all titles in the system. This allows the updating of titles that are already present without waiting for a qualifying event to occur.

To run normalization:

1. From the **Rule** menu, select **Normalization**.
2. Select the set from the list.

Figure 5.25: Run Normalization Rule Set

Normalization Rule Set Details: ATTenddates

Sites

☒ Global
☐ Local

Event Selection

☒ Ingest ☐ UI Create ☐ UI Update ☐ Schedule

☒ Targeted

Title Filter

Data Modification

1
When this is true:
AT&T.Change license window end date for ad content
Days past license window start date 3
Delete

Reorder **Create Rule** **Add Custom Rule**

Rule Properties

Rule Set Name ATTenddates ☒ Enabled

Save **Cancel** **Save & Run Against All Titles**

3. Click **Run Against All Titles**. A confirmation message is displayed.
4. Click **OK** to run the rule set or **Cancel** to cancel the process. After the rule sets have run, the Rule Set list will display.

Creating Content Processing Rule Sets

Content processing rule sets can call a template to initiate a work order based on an event and if the title meets the set's filter criteria. For example, if content is ingested from a trusted provider, a rule can be set to call a template that will automatically create the title.

To create content processing rule sets:

1. From the **Rules** menu, select **Content Processing**. The Content Processing Rule Sets list displays.
2. Click the **Create** button. The *Create New Content Processing Rule Set* screen displays.
3. Select **Global** or **Local** sites from this menu. Click **next>>**. The screen displays the following:

Figure 5.26: Select Event

Create New Content Processing Rule Set

This wizard will guide you through the process of creating a new rule. Check the events below to select when this rule will be applied.

▼ Event Selection

☐ Ingest ☐ UI Create ☐ UI Update ☐ Nationalize

☐ Purge ☐ Schedule ☐ Targeted

<< prev next >>

4. Content processing rule sets have an additional event option. Select one or more events that will cause the rule set to be triggered.
 - *Ingest* – This event is triggered when a title is created or updated through a content ingest workflow template.
 - *UI Create* – This event is triggered when a new title is manually created through the Content UI.
 - *UI Update* – This event is triggered when a new title is manually updated through the Content UI.
 - *Normalized* – This event is triggered when the title is modified by a Normalization rule.
 - *Schedule* – If this box is checked, the rule will be available in the list of rules which can be scheduled on the jobs screen. Checking this box without creating a new job will not run the rule.
 - *Targeted* – If this box is checked, when a title is targeted this rule will be applied on the local site copy if the criteria is satisfied.
 - *Purge* – If this box is checked, this rule will be run at the end of the Purge nationalize template and will purge all of its site titles.

- *Deleted* - If this box is checked, the title will be deleted after processing is completed.

5. Click **next>>**.

6. Define the Title Filter. This defines the content the rule is applied to. For the rule to be applied, the content must meet the conditions.

Figure 5.27: Content Processing Title Filter

7. Click the field's text box and select the metadata field from the list.
8. Select the operator from the drop-down. Only options that are valid for the chosen field are listed.
9. Optionally, enter the value to be matched.
10. Click **next>>** to select the template.

Figure 5.28: Select Template

11. Select a template from the drop-down list. A work order using this template will be initiated when the event occurs and the title matches the title filter.
12. Click **next>>**.

Figure 5.29: Set Rule Properties

13. Enter the *Rule Set Name* and optionally select the *Enabled* check box.
14. Click **next>>**.

Figure 5.30: Save Content Processing Rule

Create New Content Processing Rule Set

Your rule definition is listed below. You can change any rule parameters on this screen. Once you are satisfied with your rule you can save your rule.

Sites

☒ Global
☐ Local

Event Selection

☐ Ingest ☐ UI Create ☐ UI Update ☐ Normalized
☐ Purge ☐ Schedule ☒ Targeted

Title Filter

☐ Not Package Is Empty
☒ Not Package.Descriptor Is Empty
 AND
☐ Not Package.Product Equals HBO ☒ Ignore Case
 OR
☒ Not Package.Descriptor Is Empty

Run the following template

Get Title Status

Rule Properties

Rule Set Name TitleStatus ☒ Enabled

- Review the values and click **Save**. The newly created rule set will be added to the list.







Creating Targeting Rules

Targeting rules are written to specify all the sites where titles are to be targeted to.

To create targeting rules:

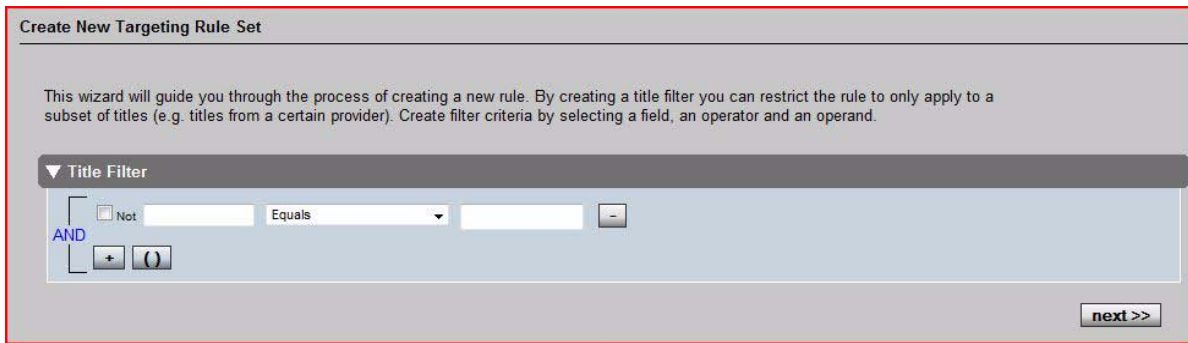
- From the **Rules** menu, select **Targeting**. The Targeting Rule Sets list displays.

Figure 5.31: Targeting Rule Sets list

Targeting Rule Sets						
	ID	Enabled	Rule Set Name	Sites	Update Date	UUID
	5		Targeting Rule - Distribution 3	Distribution 3	2010-05-04 10:53:51	53fa4f67-8696-4df9-bd20-bc0b5cbbb96f
	10		Targeting Rule - Jeff	distribution...	2010-05-13 13:33:15	62bbcc2c-0dc8-4a8a-9e4a-7e5066abab21
	763		NoEmptyFieldsTarget	KPLLogical, ...	2010-05-20 15:46:31	c8baa353-9ab5-4417-99d2-2141e49e9852
<input type="button" value="Enable"/> <input type="button" value="Disable"/> <input type="button" value="Create"/> <input type="button" value="Delete"/>						

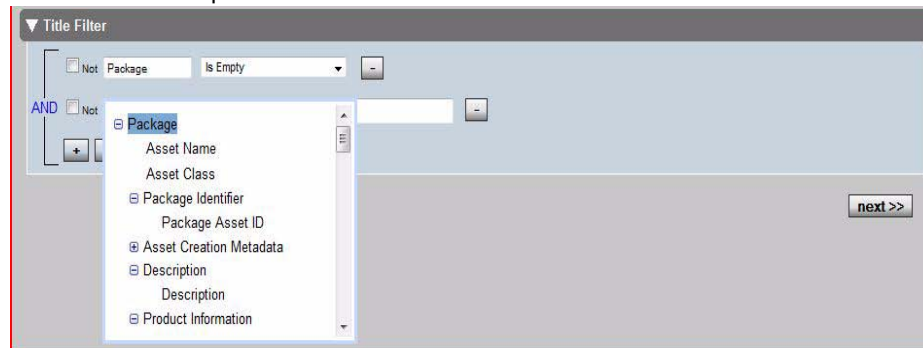
- Click the **Create** button. The screen displays the following:

Figure 5.32: Create Targeting Rule Set



3. Create the Title Filter. The filter determines if the rule will be applied against a title. If the filter is not matched, the rule is not run. The filter is comprised of a field, an operand, and a condition. Select the filter's text box. The following screen displays:

Figure 5.33: Targeting Rule Set Title Filter options



4. Select the filter options. Click **next >>**. The screen displays the following:

Figure 5.34: Select Sites for Targeting Rule Set



9. Select the site(s) that you want the rule set to apply copies of the title to. You can also select **All** to select all sites or **None** to select no sites. Click **next >>**. The screen displays the following:

Figure 5.35: Targeting Rule Set Properties

Create New Targeting Rule Set

Enter a descriptive name for your rule. You can inactivate the rule by unchecking the enabled box.

Rule Set Properties

Rule Set Name: ☒ Enabled

<< prev next >>

10. Enter the *Rule Set Name* in the **Rule Set Properties** field. Click **next>>**. The screen displays the following:

Figure 5.36: Targeting Rule Set Definition

Create New Targeting Rule Set

Your rule definition is listed below. You can change any rule parameters on this screen. Once you are satisfied with your rule you can save your rule.

Title Filter

AND ☐ Not Title Status Equals Draft(DRAFT) ☒ Ignore Case

Sites

Select: All None

- ☐ D1
- ☐ asdfasdf
- ☐ Logical1
 - ☐ ChDist1
 - ☐ ChDist3
 - ☐ ChDist2
 - ☐ ChDist4
 - ☒ ChDist5

Rule Set Properties

Rule Set Name: ☒ Enabled

Save Cancel

<< prev

Check here to activate rule

11. Click **Save** to save this rule set definition. The new rule set will be added to the Targeting Rule Sets screen.

Click **Cancel** to return to the Targeting Rule Sets page without saving the new rule set. Click **prev>>** to return to the previous screen.

Activating and Deactivating Rule Sets

To activate any rule set, click the *Enabled* checkbox. To deactivate the rule set, un-click the *Enabled* checkbox. Enabled Rule Sets will show a green icon in the Enabled field, and disabled rule sets will display a red icon in the *Targeting Rule Sets* page.

You can also enable and disable rule sets from the *Targeting Rule Sets* page.

1. Click the box next to the rule set you wish to change.
2. Click **Enable** if the rule set is disabled. The button will change from red to green.
3. Click **Disable** if the rule set is enabled. The button will change from green to red.

Managing Rule Sets

Once rules are created, the sets are managed in the same way regardless of the rule type.

Managing Rule Set Order

Rules are run in the order they are seen in the list.

To manage rule set order:

1. From the [Rules](#) menu, select the rule type to be managed.

Figure 5.37: Changing the Rule Order



	<input type="checkbox"/>	ID	Enabled	Rule Set Name
	<input type="checkbox"/>	3		Global Normalization Rule
	<input type="checkbox"/>	4		Local normalization rule 1
	<input type="checkbox"/>	161		41508_1272994809277
	<input type="checkbox"/>	533		testRule
	<input type="checkbox"/>	538		Local normalization rule 2
	<input type="checkbox"/>	751		assets
	<input type="checkbox"/>	760		ATTenddates
	<input type="checkbox"/>	761		ATTNoEmptyFields

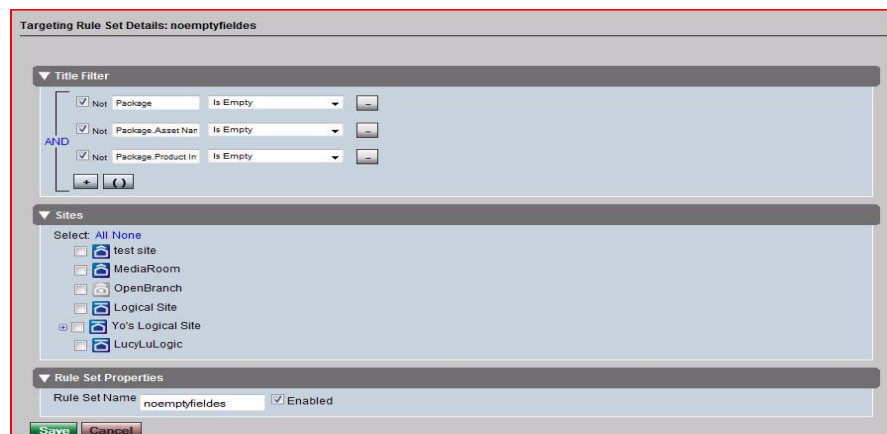
2. Select the blue icon next to the rule check box and move the mouse without releasing the button to drag the rule into the desired location in the list.
3. Enter changes.
4. Click [Save Order](#). A confirmation message is displayed.

Viewing/Editing a Rule Set

To view and edit a rule set's details:

1. Click the [Rule Set Name](#) or the set's [ID](#). The ID is the unique identifier for the rule that is assigned and used internally.

Figure 5.38: Rule Set Details



Targeting Rule Set Details: noemptyfields

Title Filter

☒ Not

AND

☒ Not

☒ Not

Sites

Select: All None

- ☐ test site
- ☐ MediaRoom
- ☐ OpenBranch
- ☐ Logical Site
- ☒ Yo's Logical Site
- ☐ LucyLuLogic

Rule Set Properties

Rule Set Name: ☒ Enabled

This page is similar to the Review and Save page. The differences are the page title, which reflects the rule set's name, and the navigational options seen when creating the set are not available.

2. Enter changes. Any of the fields can be changed. Note that the rule set's ID is not shown. This is used by the system to identify the rule set and cannot be modified or re-used.
3. Click **Save** to commit any changes.

Deleting a Rule Set

Rule sets can also be deleted from the list.

To delete a rule set, select the check box next to the rule set and click **Delete**. The confirmation message is displayed. Click **OK** to delete.



If the rule set is associated with any jobs, a message will display that it cannot be deleted.

6

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Introduction to Work Orders

Once resources are available, it is time to create the work orders. A work order is a specific process or operation that is created and managed by the workflow component of the CMS. A work order is based on a selected template, which is the set of instructions and requirements needed for the process to begin, progress, and complete. The work order is the request for that set of instructions to be carried out. Until the work order is created, no processes occur.

A work order is made up of a set of elements:

- The work order is the identifying instance of a process execution. The order is identified by a unique work order number and has a priority.
- The template upon which the work order is based defines the process. The process definition includes any tasks and resources needed, the order, and the structure for carrying out those tasks.
- The [workflow](#) area provides visibility into the system templates that have been configured and ingested.

Viewing Available Templates

Before starting with work orders, familiarize yourself with the available templates. Templates are customizable XML files that contain the set of instructions needed to perform a process. Templates are created and edited in WatchPoint Studio and then exported to the CMS. The CMS provides a Template Details page, which displays the complete set of tasks and operating instructions contained in the template.

To view available templates:

1. From the [Workflow](#) menu, select [Work Orders](#) -> [Templates](#). The Template Details page displays the first template in the list:

Figure 6.1: Accessing Templates

Icon	Name	Timeout	Loops	Parameter	Type	Value
START	Start	-NA-		Diff File Path	FILE	
EXECUTION	Get File Name	-NA-		Metadata File Path	FILE	
EXECUTION	Determine Update Type	-NA-		Package Asset ID	STRING	
EXECUTION	Get Title	-NA-		Provider ID	STRING	
EXECUTION	Notify Asset Arrival	00:01:00		action	STRING	
END	End	-NA-		file-name	STRING	
				titleBrief	STRING	

Protection Key(s)

NON-ADULT

COMMON

Annotations

Create Work Order Save

A drop-down list of available templates displays at the top of the page. When first loaded, the first entry in the list is selected, and its details are displayed.

2. To view a different template, select one from the drop-down list. Each task's information includes the following:

- *Task Icon* – The icon assigned during template creation to represent the type of node, task, or the task's associated resource group. If no icon was assigned when the template was designed, a default execution icon displays.
- *Name* – The names of tasks as defined in the work order template.
- *Timeout* – Time expected to complete the task. The duration can be a constant, a function, or -NA-.
- *Loops* (when applicable) – Tasks that are part of the same loop.

Parallel processes:
Tasks that occur on the same execution branch. These run concurrently.

Work order templates can contain **parallel processes**. Shaded rows represent branches of parallel processes. Tasks belonging to the same execution branch have the same background color.

The work order template can include conditional steps. As a result, some steps might not execute every time.

In the right side of the window, the *Parameters* and *Protection Keys* are listed. *Parameters* are the template's input values. *Protection Keys* are used to partition the system and make certain a resource is not processing two types of work orders. A subset of resource groups and templates in the system can be associated with a protection key. For example, a protection key is used to partition the system between regular and adult content. The key is used to verify that regular contents are processed by regular resources and adult contents are processed by adult resources, thus preventing the co-mingling of the two content types. At runtime, the system ensures that work orders of a template and the resources that they use have protection keys that match (e.g., resources only allocated for non-adult content).

Creating a New Work Order from the Template

You can create a new work order using the [Create Work Order](#) button from this template view. See *Creating a Work Order* below for details.

To save the work order, click the [Save](#) button.

Creating a Work Order

To create a work order:

1. From the [Workflow](#) menu, select [Work Orders -> View](#). The Work orders list displays. Click the [Create](#) button.

Figure 6.2: Creating a Work Order

- From the drop-down list, select the desired *Work Order Template*.



The system can retain multiple versions of a work order template. Work orders cannot be created by an older template version. If an older template is chosen, the system returns an error. If this happens, select a more recent version.

- Change the *Priority* if desired. The default is NORMAL.
- Click **Save**. The selected template's parameters are displayed.

Figure 6.3: New Work Order Parameters Based on Templates

Displayed parameters vary, depending on the Work Order Template selected.

- Enter values. Required fields are indicated by an asterisk.
- Click **Save**. A confirmation page displays with the Work Order ID number and estimated duration of the work order.

Figure 6.4: Work Order Confirmation

Work Order #1511 has been created and is estimated to take approximately 0 hour(s) and 0 minute(s) to complete.

Deleting the New Work Order

If you need to delete the newly-created work order, click on the Work Order ID number that was just displayed on the confirmation page. The following screen displays:

Figure 6.5: Work Order Tasks Page

The screenshot shows the 'Work Order Tasks' page. At the top, there are tabs for 'Tasks' and 'Properties'. The 'Properties' tab is active, displaying details for a task with ID 39659, template 'Content Normalization - v1', start time '2010-05-10 19:49:00', end time, operational status 'ERROR', and admin status 'ERROR'. Below this is a 'Tasks' table with columns: Task Name, Task Status, Start Time, End Time, and Status. The table contains two rows: 'Execute RuleSet' with status '0%' and 'End Rule Execution' with status '0%'. Below the 'Tasks' table is a 'Task History' table with columns: Task Name, Task Status, Start Time, End Time, and Status. The 'Task History' table contains one row: 'Start Rule Execution' with status '100%', start time '2010-05-10 19:49:00', end time '2010-05-10 19:49:00', and status 'COMPLETED'. At the bottom of the page, there are buttons for 'Retry', 'Restart', 'Cancel Work Order', and 'Delete'. A pagination bar at the bottom shows '10 25 50 100 rows per page' and 'page 1 of 1'.

7. Click **Delete**. A confirmation page displays asking if you want to delete the work order. Click **OK**.
8. A message displays that the Work Order is scheduled to be deleted.

If the Work Order has been queued, you can also pause it. If the Work Order has been paused, you can also resume it.

You can also delete work orders from the Work Order view listing screen by selecting the work order and clicking **Delete**.

Searching Work Orders

Thousands of work orders can exist on a system. To help users find results easily, several search methods are available.

Searching by Status

The Home Page provides both the number of work orders of a specific process status and a link to view those orders.

Figure 6.6: Work Order Searching on the Home Page

The screenshot shows the 'WORK ORDER STATUS' page. It displays a list of work order statuses and their corresponding counts. The table has two columns: Status and Count. The statuses and counts are: In Process (0), Completed (117857), Failed (21464), Cancelled (83946), Queued (15), Paused (0), and Branched (0). Each status is represented by a colored icon and a link to view those orders.

Status	Count
In Process	0
Completed	117857
Failed	21464
Cancelled	83946
Queued	15
Paused	0
Branched	0

For example, you can see that 21464 work orders have [Failed](#). Clicking the [Failed](#) link opens the Work Order Details page with the list of failed orders.

Figure 6.7: Failed Work Orders

Work Orders 

	+	Status	Admin Status	ID 	Title ID	Title Brief	License Start	License End	Current Task	Template	Start Time	End Time	Protection Key
	-			274278	117745				Request To Distribute Title	Target Title - v9	2010-05-15 15:58:02		COMMON
	-			274277	117745				Request To Distribute Title	Target Title - v9	2010-05-15 15:57:06		COMMON
	-			274265	13	risto, by Alex	2006-05-08 00:00:00.0	1976-01-18 00:00:00.0	Move to Original File Directory	Asset Ingest - v46	2010-05-14 20:15:12		COMMON
	-			274264	14	hout	2021-07-25 00:00:00.0	1991-12-23 00:00:00.0	Move to Original File Directory	Asset Ingest - v46	2010-05-14 20:15:11		COMMON
	-			274163	117738				Run Local Content Processing	Target Title - v9	2010-05-14 18:53:32		COMMON
	-			274159	117742				Run Local Content Processing	Target Title - v9	2010-05-14 18:53:31		COMMON
	-			274155	117745				Request To Distribute Title	Target Title - v9	2010-05-14 18:48:06		COMMON
	-			274149	117745				Request To Distribute Title	Target Title - v9	2010-05-14 17:14:56		COMMON
	-			274148					Move to Original File Directory	Asset Ingest - v46	2010-05-13 21:09:53		COMMON
	-			262361					Map Metadata to Title	Asset Ingest - v46	2010-05-08 09:41:16		COMMON

21464 record(s) found.

[Create](#)
[Restart](#)
[Cancel Work Order](#)
[Retry](#)
[Delete](#)

10 25 50 100 rows per page

[page 1 of 2147](#)
[go to page: 1](#)

Searching Branched Orders by Status

When the order execution arrives at a start of parallel execution steps, the work order is considered to be in a branched status.

To search branched orders by status:

1. Click the [Branched](#) link from the Work Order Status area on the home page. The Work Orders View list displays work orders filtered by the Branched status.

Figure 6.8: Work Order Branches

Work Orders 

	+	Status	Admin Status	ID 	Title ID	Title Brief	License Start	License End	Current Task	Template	Start Time	End Time	Protection Key
	+			1386	999	hari became pot	2009-11-13T00:00:00	2010-02-27T00:00:00	Fork	Content Processing - v33	2010-04-13 19:47:10		COMMON
	+			1387	999	hari became pot	2009-11-13T00:00:00	2010-02-27T00:00:00	Fork	Content Processing - v33	2010-04-13 19:48:41		COMMON
	+			1388	999	hari became pot	2009-11-13T00:00:00	2010-02-27T00:00:00	Fork	Content Processing - v33	2010-04-13 19:49:52		COMMON
	+			1389	999	hari became pot	2009-11-13T00:00:00	2010-02-27T00:00:00	Fork	Content Processing - v33	2010-04-13 19:50:39		COMMON
	+			1390	999	hari became pot	2009-11-13T00:00:00	2010-02-27T00:00:00	Fork	Content Processing - v33	2010-04-13 21:22:11		COMMON
	+			1394	999	hari became pot	2009-11-13T00:00:00	2010-02-27T00:00:00	Fork	Content Processing - v33	2010-04-13 21:22:11		COMMON
	+			1411	1007	HAHAHAHA	2009-11-01T00:00:00	2011-11-01T00:00:00	Fork	Content Processing - v33	2010-04-21 20:52:25		COMMON

1457 record(s) found.

[Create](#)
[Resume](#)
[Restart](#)
[Pause](#)
[Cancel Work Order](#)
[Retry](#)
[Delete](#)

10 25 50 100 rows per page

[page 146 of 146](#)
[go to page: 146](#)







2. Click the  icon next to the check box to expand the order's details.

Figure 6.9: Branched Work Order Details

Work Orders 											
		Status	Admin Status	ID	Title ID	Title Brief	License Start	License End	Current Task	Template	Protection Key
	+			1411	1007	HAHAHHAH	2009-11-01T00:00:00	2011-11-01T00:00:00	Fork	Content Processing - v33	COMMON
		Status	Admin Status	Current Task		Start Time		End Time			
				Register Transcoded File		2010-04-21 20:52:40					
				Join		2010-04-21 20:52:40		2010-04-21 20:52:40			

Work Order Status Icons

The following icons indicate the work order status:

-  In-Process – Work Order Branches are currently being processed.
-  Completed – Work Order Branches have been completed.
-  Failed – At least one Work Order Branch has failed.
-  Cancelled – A Work Order Branch has been cancelled by a user.
-  Queued – Work Order Branches are in the queue and waiting to be processed.
-  Paused – A Work Order Branch has been paused by a user.

Custom Searching

Custom searches can be conducted using several criteria.

To conduct a custom search:

1. From the **Workflow** menu, select **Work Orders -> Search**. The Search Work Orders page displays.

Figure 6.10: Search Work Orders Page

The screenshot shows the 'Search Work Orders' interface. It includes the following fields and options:

- ID:** A text input field.
- Template:** A dropdown menu with options: 'Asset Ingest - v48', 'Content Distribution - FTP - v6', 'Content Distribution - Schedule Pitch - v4', and 'Content Distribution - Verify Pitch - v5'.
- Operational Status:** A dropdown menu with options: 'In-Process', 'Completed', 'Failed', and 'Cancelled'.
- Start Date:** Two date pickers labeled 'Start' and 'End', both with the format '(yyyy-mm-dd)'.
- Priority:** A dropdown menu with options: 'Lowest', 'Low', 'Normal', and 'High'.
- Protection Key:** A dropdown menu with options: 'Adult', 'Common', and 'Non-adult'.
- Search:** A blue button at the bottom left.

The Work Order search criteria are configurable. WatchPoint provides a base set of search criteria, and a customer can identify additional criteria depending on the templates defined in the system.

Default search criteria include:

- *ID* – The unique number assigned to a work order at the time of creation
- *Template* – The work order template associated with the asset or work order
- *Operational Status* – The current operational status of a work order
- *Date Range* – The date range within which the work order was created. Use the calendars to enter the start and end dates in YYYY-mm-dd format.
- *Priority* – The value assigned to a work order; higher priority work orders are processed first
- *Protection Key* – The protection key value assigned to a work order

Criteria can be applied individually or in any combination.

Managing Work Orders

The View Work Order Details page lists the search results.

Figure 6.11: Work Orders

Work Orders  

<input type="checkbox"/>	+	Status	Admin Status	ID 	Title ID	Title Brief	License Start	License End	Current Task	Template	Start Time	End Time	Protection Key
<input type="checkbox"/>	-			39660	10572				Fix Validation	Asset Ingest - v48	2010-05-10 20:15:01		COMMON
<input type="checkbox"/>	-			39658	10572				Fix Validation	Asset Ingest - v48	2010-05-10 19:46:01		COMMON
<input type="checkbox"/>	-			39657	10572				Fix Validation	Asset Ingest - v48	2010-05-10 19:21:51		COMMON
<input type="checkbox"/>	-			39656	10572				Fix Validation	Asset Ingest - v48	2010-05-10 19:19:02		COMMON
<input type="checkbox"/>	-			39648					Map Metadata to Title	Asset Ingest - v48	2010-05-08 22:57:38		COMMON
<input type="checkbox"/>	-			39647	10569	--Let go! T	2006-09-25T19:48:17	1985-06-20T09:13:22	End	Asset Ingest - v48	2010-05-08 22:57:37	2010-05-09 00:23:44	COMMON
<input type="checkbox"/>	-			39646	10568	nhaul, and the	2023-03-03T13:11:13	1973-07-28T03:32:20	End	Asset Ingest - v48	2010-05-08 22:57:27	2010-05-09 00:23:35	COMMON
<input type="checkbox"/>	-			39645	10567	g	1978-07-30T18:17:06	2019-03-25T16:17:36	End	Asset Ingest - v48	2010-05-08 22:57:26	2010-05-09 00:23:24	COMMON
<input type="checkbox"/>	-			39644	10566	nd	2003-12-27T05:03:01	2008-12-18T20:45:43	End	Asset Ingest - v48	2010-05-08 22:54:54	2010-05-09 00:23:12	COMMON
<input type="checkbox"/>	-			39643	10565	low Captain	1974-01-06T06:25:24	1985-11-01T14:22:47	End	Asset Ingest - v48	2010-05-08 22:54:52	2010-05-09 00:23:04	COMMON

38553 record(s) found.

Create

Resume

Restart

Pause

Cancel Work Order

Retry

Delete

10

25

50

100

rows per page

⏮

⏪

page 1 of 3856


⏩

⏭

go to page: 1

This page lists the work orders that match the entered criteria. Displayed information will vary, depending on your configuration.

The following columns display details for the work order:

- *Plus sign (+)* – A  in this column indicates that the order is branched.
- *Status* – Icons indicate the work order status. For icon descriptions, refer to the Work Order Status Icons on page 104.
- *Admin Status* – Icons indicate the Admin Status.
- *ID* – The work order number.
- *Title ID* – Unique ID for the title.
- *Title Brief* – The title being managed.
- *License Start* - The license start date for the title.
- *License End* –The license end date for the title.
- *Current Task* – The current operation of the work order. *End* indicates that the work order is complete.
- *Template* – The work order template used for this work order.
- *Start Time* – Start time for the task.
- *End Time* – End time for the task. If the order is not complete, an End Time does not display.
- *Protection Key* – The protection key value assigned to a work order.

Viewing Work Order Tasks

To view a work order's tasks:

1. Click a [Work Order ID](#) link.

Figure 6.12: View Work Order Tasks

Work Order Tasks

Tasks Properties

ID: 39647
 Template: [Asset Ingest - v48](#)
 Title: [10569](#)
 Start Time: 2010-05-08 22:57:37
 End Time: 2010-05-09 00:23:44
 Operational Status: COMPLETED
 Admin Status: COMPLETED

Work Order Parameters:

Name	Value
assetMapStatus	false
extractFilePath	/content/data/DTV.com/2010_05_08/original/asset/CL1.1_Sat_May_08_2010_19.54.55_505_896..V.xml_1273373858479
licensingWindowEnd	1985-06-20T09:13:22
licensingWindowStart	2006-09-25T19:48:17
metadataMapStatus	Map Successful
providerId	DTV.com
titleBrief	--Let go! T

Tasks

	Task Name	Task Status	Start Time	End Time	Status
END	End	100%	2010-05-09 00:23:44	2010-05-09 00:23:44	COMPLETED

Task History

	Task Name	Task Status	Start Time	End Time	Status
START	Start	100%	2010-05-08 22:57:37	2010-05-08 22:57:38	COMPLETED
EXECUTION	Initialize Process Variables	100%	2010-05-08 22:57:38	2010-05-08 22:57:38	COMPLETED
EXECUTION	Make Original File Directory	100%	2010-05-08 22:57:38	2010-05-08 22:57:39	COMPLETED
CONTENT	Move to Original File Directory	100%	2010-05-08 22:57:39	2010-05-08 22:57:40	COMPLETED

The Work Order Tasks page displays the following:

- **Tasks** tab. The work order's number, template, and current statuses display in the top section of the page.
- **Work Order Parameters.** When the template is created, the designer specifies the parameters that are displayed on this page. To display the complete list of parameter variables in the template, click the [Properties](#) tab.
- The **Tasks** section displays the work order's current and next step in the template for each branch. The shaded rows indicate branches. The branch colors correspond to the colors in the Audit Track (the bottom section labeled *Tasks History*). The **Task Status** displays the percentage of completion for each task. If a step is pending, the progress displays 0%.
- The **Tasks History** section displays the steps already processed in the work order. The work order steps are listed in chronological order. Branched work orders use shaded rows to display parallel processes in a single list. When rows are shaded the same color, they are part of the same branch.

If the *Task Name* value is a link, messages and details related to the task and external systems can be displayed.

To view task details:

1. Click a link from the *Task Name* column.

Figure 6.13: View Work Order Task Details

Work Order Task Details

Task Name: Move to Original File Directory
Start Time: 2010-05-08 22:57:39
End Time: 2010-05-08 22:57:40

UID	Name	Type	I/O	Message Time Stamp	Resource	Resource Group
010713	File Move	ack	Incoming	2010-05-08 22:57:40	File Manager	File Management Subsystem
010713	File Move	control	Outgoing	2010-05-08 22:57:39	File Manager	File Management Subsystem

Message:

UID: Unique ID.
Assigned to message types exchanged with external systems.

2. To display messages for the workflow system and any external systems, click a link in the *UID* column. In the following example, the UID [010503](#) type = **ack** is displayed.

Figure 6.14: Message Example

Work Order Task Details

Task Name: Get All Files
Start Time: 2009-10-07 18:08:00
End Time: 2009-10-07 18:08:00

UID	Name	Type	I/O	Message Time Stamp	Resource Name	Group Name
01CM06	Get All Files	ack	Incoming	2009-10-07 18:08:00	Content Management	Content Management
01CM06	Get All Files	control	Outgoing	2009-10-07 18:08:00	Content Management	Content Management

Message:

```
<?xml version="1.0" encoding="UTF-8"?>
<WFSMessage RequestKey="152" Type="ack" UID="01CM06">
  <MessageBody>
    <ParameterList>
      <Parameter DataType="String" Name="listOfFiles">
        <Value/>
      </Parameter>
    </ParameterList>
  </MessageBody>
</WFSMessage>
```

Viewing Work Order Properties

To display the complete list of properties and parameters for the work order, on the Work Order Tasks page, click the **Properties** tab.

Figure 6.15: View Work Order Properties

Work Order Properties

Tasks Properties

ID: 1504
 Template: Target Title - v9
 Title: 367
 Start Time: 2010-05-06 22:25:48
 End Time:
 Operational Status: ERROR
 Admin Status: ERROR
 Priority: HIGH
 Notes: test workorder priority [admin at Wed May 12 2010 11:33:07 GMT-0700 (Pacific Daylight Time)]
 Additional Notes: **Add**

Work Order Parameters:

Name	Type	Variable	Value
Content Processing Scheduled?	BOOLEAN	processingScheduled	false
Has More Sites?	STRING	hasMoreSites	false
Master Title ID	STRING	titleId	367
Site Id	BOOLEAN	siteId	90
Site IDs	STRING	siteIds	90
Site Title ID	STRING	siteTitleID	
Source Component Name	STRING	sourceComponentName	WatchPoint
Source Entity Name	STRING	sourceEntityName	Workflow
Source Id	STRING	sourceId	1504 1666
unknown	STRING	processId	1504

Retry Restart Cancel Work Order Save Delete

Additional notes can be added after the work order has been created. Existing notes cannot be modified or deleted.

Working with Work Orders




Depending on the work order's current status, options to pause, resume, cancel, retry, restart, or delete the work order are available.





Determining Work Order Status

The Work Order View displays both a *Status* and an *Admin Status*.

Status indicates the real-time, current operational status of the Work Order. *Admin Status* indicates the requested status of the Work Order. For example, if a work order is paused while processing a task, the Admin Status immediately changes to *Paused*, but the operational *Status* changes when the task has completed or the resource can pause its task safely.

Several stages are available, each identified by one of the following icons:

-  In-Process – Work Order is currently executing.
-  Completed – Work Order has completed all tasks.
-  Failed – Work Order has failed one task.

-  Cancelled – Work Order was cancelled by a user.
-  Queued – Work Order is waiting for resource availability.
-  Paused – Work Order was paused by a user.
-  Branched – Work Order arrives at a start of parallel execution steps.

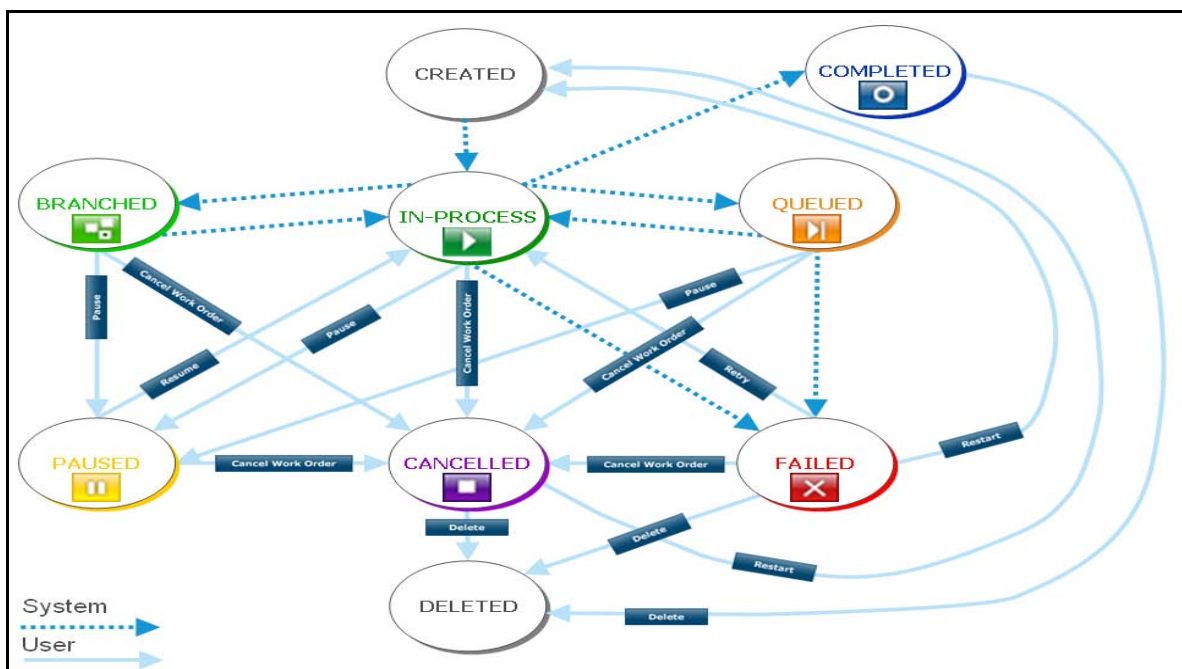
Status and Actions

The following list defines actions that are available at different stages of the process:

- *Pause* – Only in-process, queued, and branched work orders can be paused.
- *Resume* – Paused work orders can be resumed.
- *Cancel* – In-process, failed, paused, queued, and branched work orders can be cancelled.
- *Retry* – Failed work orders can be retried and will start executing from the step where they last failed. Branched work orders can be retried if any of the branches are in a failed state.
- *Restart* – Restarts the work order from the beginning. A restart creates a new work order so the history of the original work order is maintained. Only failed and cancelled work orders can be restarted.
- *Delete* – Only completed, failed, or cancelled work orders can be deleted.

When a pause or cancel operation is attempted, the system waits to perform the action until the current task completes. The time required to complete the current task determines the time the operation takes. The Admin Status changes instantly, based on the user action taken. The Operation Status changes after the current task is finished.

Figure 6.16: Work Order State Transition Diagram



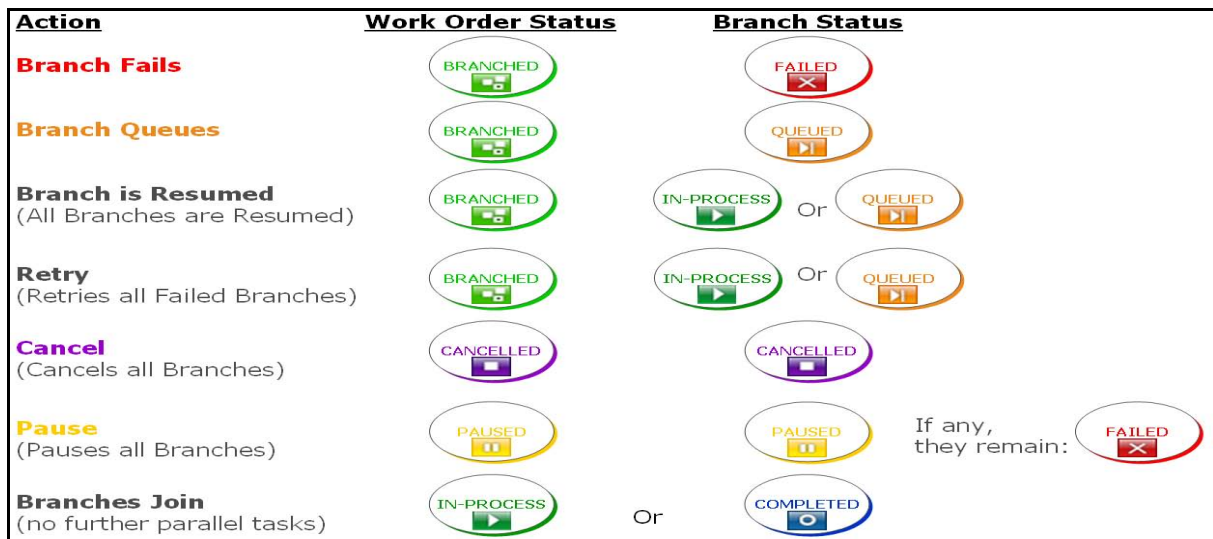
Branched Work Order Status Transitions

A work order remains in branched status when:

- *Work Order Branch Fails* – The Branch moves to Failed
- *Work Order Branch Queues* – The Branch moves to Queued
- *Resume on Branched Work Order* – Resumes all branches
- *Retry on a Branched Work Order* – Retries all Failed branches; each moves to an In-Process or Queued state, depending on resource availability
- *Cancel on a Branched Work Order* – Cancels all branches; the Work Order moves to Cancelled
- *Pause on a Branched Work Order* – Pauses all branches; the Work Order moves to Paused
- *Failed Branches* – Remain Failed (not Paused)

On successful join of all the branches, a Branched Work Order moves to In-Process (out of Branched).

Figure 6.17: Actions for Branched Work Orders



Change Work Order Priority

Priority determines the work order that is processed first within the queue. With all other things being equal, a work order with a higher priority is moved in front of an order with a lower priority within the queue. Priority can only be changed while the work order state is In-Process, Paused, or Queued.

The priority can be changed on the View Work Order Properties page for all types of work orders except Failed. The priority levels available include Lowest, Low, Normal, High, and Highest.

To change the work order priority:

1. Select **Workflow -> Work Orders -> Search** and select any Operational Status that is not failed. The Work Orders search results screen displays.
2. Click on the **Work Order ID** number. The Work Order Tasks screen displays.
3. Click on the **Properties** tab. The screen displays the following:

Figure 6.18: Change Work Order Priority

The screenshot shows the 'Work Order Properties' page. The 'Priority' dropdown menu is set to 'HIGHEST'. The 'Notes' field is empty, and the 'Additional Notes' field contains the text 'add note again' with an 'Add' button next to it. Below the form is a table of 'Work Order Parameters'.

Name	Type	Variable	Value
_external_page	BOOLEAN	_external_page	false
_externally_performed	BOOLEAN	_externally_performed	true
aspectratio	STRING	aspectratio	
Asset Mapping Message	STRING	assetMapMessage	
Asset Mapping Status	BOOLEAN	assetMapStatus	false
assetid	STRING	assetid	
bitrate	STRING	bitrate	
Content Folder Path	STRING	extractFilePath	/content/data/DTV.com/2010_05_08/original/asset
Create Title if not present?	BOOLEAN	createTitleIfNotPresent	true

Select the new Priority from the drop-down menu. Click **Save**.

The priority level can also be changed within the queue.

Add Notes to a Work Order

Notes can be added to a work order on the Properties page. Once the Notes are added, the entry cannot be deleted. Added notes are appended to the previous comments.

Figure 6.19: View Work Order Properties: Add Notes

The screenshot shows the 'Work Order Properties' page. The 'Notes' field contains the text 'Add note test [admin at Fri May 14 2010 12:39:19 GMT-0700 (Pacific Daylight Time)]'. The 'Additional Notes' field contains the text 'add note again' with an 'Add' button next to it. Below the form is a table of 'Work Order Parameters'.

Name	Type	Variable	Value
adiDtdFile	FILE	adiDtdFile	/opt/tandbergtv/cms/workflow/ADI.DTD
aspectratio	STRING	aspectratio	1.7777777777777777
aspectratioReencode	STRING	aspectratioReencode	

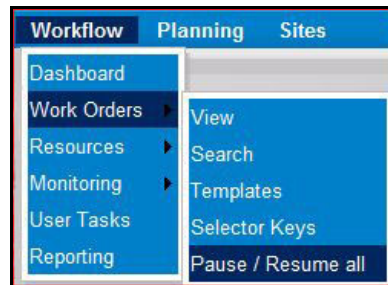
Pause All/Resume All

Currently processing work orders can be managed as a single unit.

To pause or resume all processing work orders:

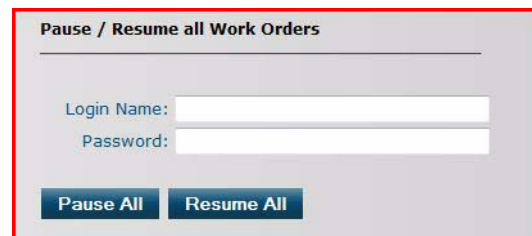
1. From the **Workflow** menu, select **Work Orders** -> **Pause/Resume All**.

Figure 6.20: Pause/Resume All Menu



2. The login page displays.

Figure 6.21: Pause/Resume All Login



3. Enter your *Login Name* and *Password*. Your entries must match the login name and password used at the start of the session.
4. Click **Pause All** or **Resume All**.
Pausing all work orders pauses all current work orders as well as any incoming work orders.
5. To resume paused work orders, repeat the steps and click **Resume All**.

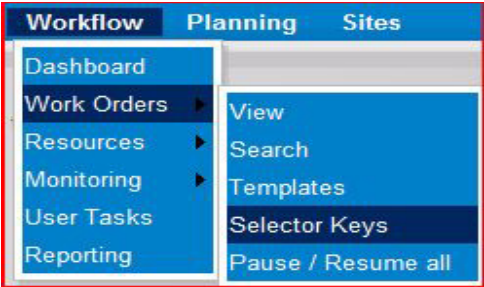


Selecting Resume All resumes ALL work orders, including any that were paused prior to the last Pause All.

Assigning Selector Keys

Selector keys are attached to the template so that work orders can be automated. Incoming messages have selector tags, which call for a selector class. This selector class returns the selector key. These selector keys are defined at the time of template implementation and customization. Refer to the *WatchPoint SDK Guide* for details on how the selector keys are defined and used.

Figure 6.22: Accessing Selector Keys



To view selector keys, from the **Workflow** menu, select **Work Orders** then **Selector Keys**.

Figure 6.23: View Template Selector Key Details

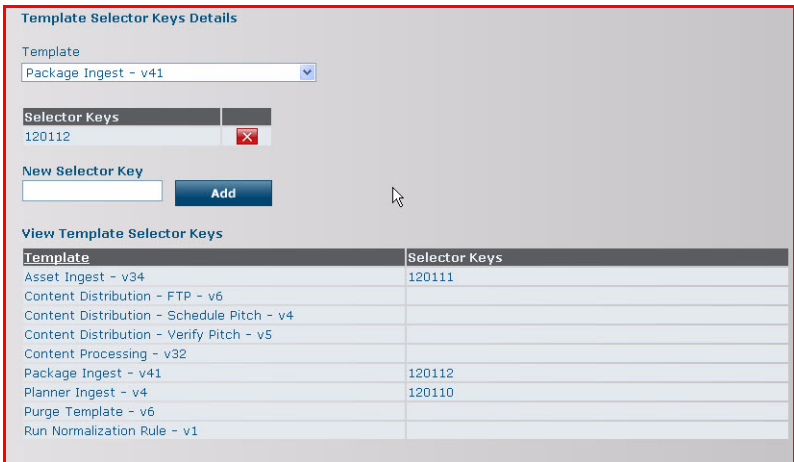


Assign a New Selector Key

To assign a new selector key:

1. Select the template from the drop-down list.

Figure 6.24: Select a Template



2. Type the new selector key (any string) in the *New Selector Key* field. A key can only be used once. If the key has already been assigned, the system returns an error.

Figure 6.25: Assign New Selector Key

Template Selector Keys

Baton Test - v18

Selector Keys

666

New Selector Key

Add

All Selector Keys

Template	Selector Keys
Asset Ingest - v48	120111
Baton Test - v18	666
Content Distribution - FTP - v6	
Content Distribution - Schedule Pitch - v4	
Content Distribution - Verify Pitch - v5	
Content Normalization - v1	
Content Processing - v34	
DigitalRapids - v4	
Package Ingest - v45	120112,AD0101
Planner Ingest - v5	120110
Purge Template - v6	
Target Title - v11	SM0103

Reporting Pause / Resume all

3. Click **Add**. The new key is displayed.
4. More than one key can be assigned. A message might need more than one template to be executed. In this case, each key initiates a different template. However, each selector key can only be assigned to one template.

Deleting a Selector Key

To delete a selector key:

1. Select the template from the drop-down list.
2. Click the Red X next to the selector key to delete.

User Tasks

Tasks in a work order are assigned to resource groups and distributed to the individual resources in the assigned group. Each resource group is assigned to a resource type. When the resource type is *Human* and the work order moves to this task, the task displays as a user task that must be performed manually. When this happens, the users who are part of that resource group will see the tasks in the *User Tasks* section of the home page.

Viewing Pending Tasks

To view pending tasks that you have permission to perform:

1. From the **Workflow** menu, select **User Tasks**. The screen displays the following:

Figure 6.26: Assigned User Tasks

Assigned Tasks [Ungroup]

Resources: admin Templates: Tasks:

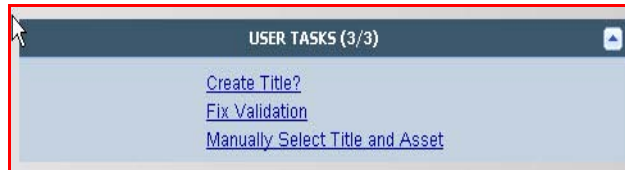
Package Ingest - v45 : Create Title from Package?

	Task Name	ID	Title ID	Template	Resource Group	Assigned Date Time
<input type="checkbox"/>	Create Title from Package?	1282		Package Ingest - v45	Content Manager	2010-05-20 14:50:02
<input type="checkbox"/>	Create Title from Package?	1284		Package Ingest - v45	Content Manager	2010-05-20 14:51:02
<input type="checkbox"/>	Create Title from Package?	1275		Package Ingest - v45	Content Manager	2010-05-20 14:48:54
<input type="checkbox"/>	Create Title from Package?	1281		Package Ingest - v45	Content Manager	2010-05-20 14:49:54
<input type="checkbox"/>	Create Title from Package?	1280		Package Ingest - v45	Content Manager	2010-05-20 14:49:43
<input type="checkbox"/>	Create Title from Package?	1279		Package Ingest - v45	Content Manager	2010-05-20 14:49:34
<input type="checkbox"/>	Create Title from Package?	1277		Package Ingest - v45	Content Manager	2010-05-20 14:49:14
<input type="checkbox"/>	Create Title from Package?	1278		Package Ingest - v45	Content Manager	2010-05-20 14:49:23
<input type="checkbox"/>	Create Title from Package?	1283		Package Ingest - v45	Content Manager	2010-05-20 14:50:46
<input type="checkbox"/>	Create Title from Package?	1276		Package Ingest - v45	Content Manager	2010-05-20 14:49:04

Perform

You can also access user tasks from the home page as shown below:

Figure 6.27: User Tasks on Home Page



Tasks are grouped based on the template and task. The *Templates* and *Tasks* drop-down lists are used to add filters.

Figure 6.28: Pending Tasks

View User Tasks [Ungroup]

Resources: admin Templates: Tasks:

Asset Ingest - v26 : Fix Validation

	Task Name	ID	Title ID	Template	Resource Group	Assigned Date Time
<input type="checkbox"/>	Fix Validation	218	126	Asset Ingest - v26	Content Manager	2009-09-30 14:07:08

Asset Ingest - v26 : Manually Select Title and Asset

	Task Name	ID	Title ID	Template	Resource Group	Assigned Date Time
<input type="checkbox"/>	Manually Select Title and Asset	36		Asset Ingest - v26	Content Manager	2009-09-30 14:07:07

Perform

2. To view the tasks as a flat list, click [Ungroup](#).

Figure 6.29: Ungrouped User Tasks

Assigned Tasks [Group]

Resources: admin Templates: Package Ingest - v45 Tasks: Create Title from Package?

User Tasks

	Task Name	ID	Title ID	Template	Resource Group	Assigned Date Time
<input type="checkbox"/>	Create Title from Package?	1282		Package Ingest - v45	Content Manager	2010-05-20 14:50:02
<input type="checkbox"/>	Create Title from Package?	1284		Package Ingest - v45	Content Manager	2010-05-20 14:51:02
<input type="checkbox"/>	Create Title from Package?	1275		Package Ingest - v45	Content Manager	2010-05-20 14:48:54
<input type="checkbox"/>	Create Title from Package?	1281		Package Ingest - v45	Content Manager	2010-05-20 14:49:54
<input type="checkbox"/>	Create Title from Package?	1280		Package Ingest - v45	Content Manager	2010-05-20 14:49:43
<input type="checkbox"/>	Create Title from Package?	1279		Package Ingest - v45	Content Manager	2010-05-20 14:49:34
<input type="checkbox"/>	Create Title from Package?	1277		Package Ingest - v45	Content Manager	2010-05-20 14:49:14
<input type="checkbox"/>	Create Title from Package?	1278		Package Ingest - v45	Content Manager	2010-05-20 14:49:23
<input type="checkbox"/>	Create Title from Package?	1283		Package Ingest - v45	Content Manager	2010-05-20 14:50:46
<input type="checkbox"/>	Create Title from Package?	1276		Package Ingest - v45	Content Manager	2010-05-20 14:49:04

Perform

Tasks can be performed individually or in groups of selected tasks.

Performing Individual Tasks

To perform an individual task:

1. Click the task [name's](#) link on the home page, or from the **Workflow** menu, select **User Tasks** then click the task's [Name](#).
The perform task page is displayed.

Figure 6.30: Perform Task

Create Title from Package?

Metadata File Path: /content/1008/05-20-2010/DAVL0101010101010202/ADI.XML

* Create Title?: NO

Provider Id: 1008

Save Perform Cancel

* Denotes Required Field

2. Complete any necessary actions and then click **Perform**.
The system lists the remaining tasks to be done.

Batch Performing Multiple Tasks

To process more than one task at the same time with the same results (batch submit):

1. From the **Workflow** menu, select **User Tasks**. Pending tasks are displayed.
2. Select the check box next to each task to process.



Batch submissions can only be performed for tasks that belong to the same group.

Figure 6.31: Select Several Tasks Simultaneously

Assigned Tasks [\[Ungroup\]](#)

Resources: Templates: Tasks:

Package Ingest - v45 : Create Title from Package? [\[i\]](#)

<input type="checkbox"/>	Task Name	ID	Title ID	Template	Resource Group	Assigned Date Time
<input checked="" type="checkbox"/>	Create Title from Package?	1282		Package Ingest - v45	Content Manager	2010-05-20 14:50:02
<input checked="" type="checkbox"/>	Create Title from Package?	1275		Package Ingest - v45	Content Manager	2010-05-20 14:48:54
<input type="checkbox"/>	Create Title from Package?	1281		Package Ingest - v45	Content Manager	2010-05-20 14:49:54
<input type="checkbox"/>	Create Title from Package?	1280		Package Ingest - v45	Content Manager	2010-05-20 14:49:43
<input type="checkbox"/>	Create Title from Package?	1279		Package Ingest - v45	Content Manager	2010-05-20 14:49:34
<input type="checkbox"/>	Create Title from Package?	1277		Package Ingest - v45	Content Manager	2010-05-20 14:49:14
<input checked="" type="checkbox"/>	Create Title from Package?	1278		Package Ingest - v45	Content Manager	2010-05-20 14:49:23
<input checked="" type="checkbox"/>	Create Title from Package?	1283		Package Ingest - v45	Content Manager	2010-05-20 14:50:46
<input type="checkbox"/>	Create Title from Package?	1276		Package Ingest - v45	Content Manager	2010-05-20 14:49:04

3. Click **Perform**. The screen displays the following:

Figure 6.32: Perform Several Tasks

Create Title from Package?

Metadata File Path: Multiple Values

* Create Title?: ☒ Apply to all tasks

Provider Id: Multiple Values

* Denotes Required Field

4. Select the appropriate action. The same action must be chosen for all of the tasks. For example, if the task is whether to create a title, either *Yes* or *No* is selected and applied to all instances.
5. Click **Perform** again.

Performing Tasks Assigned to an External Source

This page is displayed when the manual task is completed by using another CMS page or external application integrated with the WatchPoint system. In this type of manual task, going to the designated screen specified by the URL and finishing the task automatically closes the manual tasks and eliminates the need for the user to explicitly close the manual tasks.

Figure 6.33: Task Assigned Externally

Fix Validation

⚠ This task is designed to be completed by an external application or system

Title URL: /portal/#Content.Search?action=CORRECT&titleId=126&request_key=236
 Provider Id: DTV.com
 Validation Message: Title Validation Failed: Error: 500!

☐ I want to perform this task immediately

Cancel

* Denotes Required Field

To perform tasks assigned to an external source:

1. If your role has the correct permission, you can override the external resource. Select *I want to perform this task immediately*. The **Save** and **Perform** options are displayed as shown below:

Figure 6.34: Save and Perform External Task

Fix Validation

⚠ This task is supposed to be completed by an external application or system

Title URL: /portal/#Content.Search?action=CORRECT&titleId=1115&request_key=1874
 Provider Id: 1002
 Title Validation Failed: The title failed validation with the following messages:
 Error:Box Cover.Asset Name is empty Info:Box Cover.Asset Class is empty Info:Box Cover.Asset ID is empty Info:Box Cover.Creation Date is empty Info:Box Cover.Description is empty Info:Box Cover.Product is empty Info:Box Cover.Provider ID is empty Info:Box Cover.Version Major is empty Info:Box Cover.Version Minor is empty Info:Box Cover.Content is empty Info:Box Cover.Content Size is empty
 Validation Message: Info:Box Cover.Content Check Sum is empty Info:Box Cover.Application Type is empty Info:Box Cover.Provider Name is empty Info:Box Cover.Asset Class not equals to box cover Info:Box Cover.Content Check Sum is not in hex format Info:Box Cover.Application Type is not equals to 'MOD', 'VOD' or 'SVOD' Info:Encrypted.Asset Name is empty Info:Encrypted.Asset Class is empty Info:Encrypted.Asset ID is empty Info:Encrypted.Creation Date is empty Info:Encrypted.Description is empty Info:Encrypted.Product is empty Info:Encrypted.Provider Name is e...

☒ I want to perform this task immediately

Save **Perform** **Cancel**

* Denotes Required Field

2. Enter any necessary data and click **Perform**. The system returns to the pending user tasks list.



Your role must have the Override External Tasks option enabled.

Performing Other User's Tasks

When a user has been assigned permission to perform others' tasks, a drop-down list displays the names of other users.

To perform another user's tasks:

1. Select a user from the drop-down list to display tasks. The tasks pending for the selected user display.
2. Perform the tasks.

7

RESOURCES

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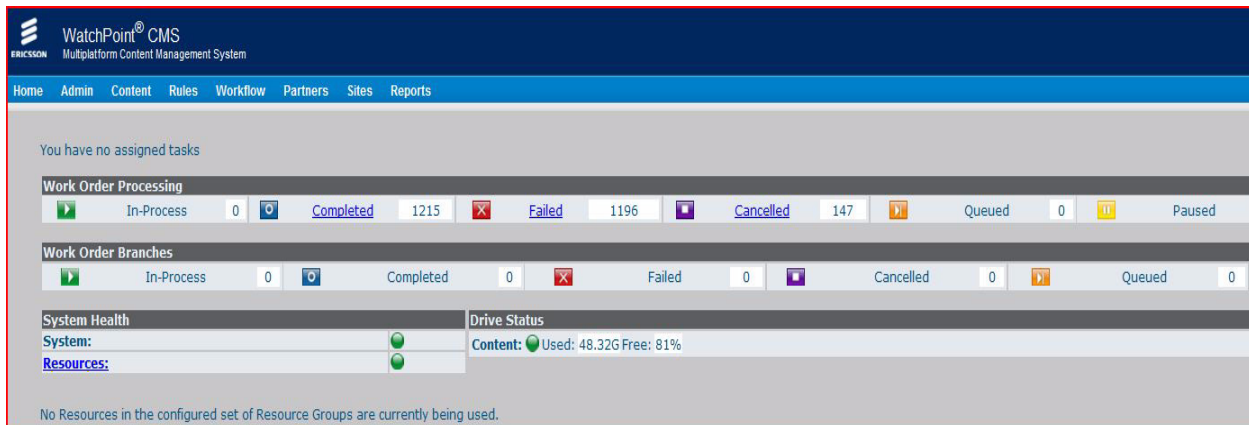
Overview

The Workflow component of CMS manages the various elements needed by the system, including all the resources, templates, and the definition and execution of work orders. Because the component includes so many elements, a second Dashboard view is available that is specific to the Workflow component.

Viewing the Workflow Dashboard

To view the Workflow Dashboard, from the **Workflow** menu, select **Dashboard**.

Figure 7.1: Workflow Dashboard



The following displays on the Workflow Dashboard:

- The *Work Order Processing* area includes work order status and work order process activity.
- The [You have 4 assigned user task\(s\)](#) link, if available, provides a link to the Assigned Tasks page.
- The *System Health* area shows the aggregated status of all resources.
- The *Drive Status* includes the status and current usage of configured drives that are displayed.
- The CMS home page displays selected *Content Manager Queues* only if a resource is currently in use.
- The *Site Manager Queue* displays all of the titles that have been targeted for distribution.

The Assigned Tasks screen is shown below:

Figure 7.2: Assigned Tasks

Assigned Tasks [Ungroup]

Resources: admin

Templates:

Tasks:

Package Ingest - v45 : Create Title from Package?

<input type="checkbox"/>	Task Name	ID	Title ID	Template	Resource Group	Assigned Date Time
<input type="checkbox"/>	Create Title from Package?	1282		Package Ingest - v45	Content Manager	2010-05-20 14:50:02
<input type="checkbox"/>	Create Title from Package?	1284		Package Ingest - v45	Content Manager	2010-05-20 14:51:02
<input type="checkbox"/>	Create Title from Package?	1275		Package Ingest - v45	Content Manager	2010-05-20 14:48:54
<input type="checkbox"/>	Create Title from Package?	1281		Package Ingest - v45	Content Manager	2010-05-20 14:49:54
<input type="checkbox"/>	Create Title from Package?	1280		Package Ingest - v45	Content Manager	2010-05-20 14:49:43
<input type="checkbox"/>	Create Title from Package?	1279		Package Ingest - v45	Content Manager	2010-05-20 14:49:34
<input type="checkbox"/>	Create Title from Package?	1277		Package Ingest - v45	Content Manager	2010-05-20 14:49:14
<input type="checkbox"/>	Create Title from Package?	1278		Package Ingest - v45	Content Manager	2010-05-20 14:49:23
<input type="checkbox"/>	Create Title from Package?	1283		Package Ingest - v45	Content Manager	2010-05-20 14:50:46
<input type="checkbox"/>	Create Title from Package?	1276		Package Ingest - v45	Content Manager	2010-05-20 14:49:04

Perform

The *Resource* area represents an external system used by CMS during work order processing. This can be a hardware device performing a specific task such as encoding, or it can be personnel performing manual tasks within the template, such as quality checks, notifications, and validations. During work order processing, CMS calls on the resource specified within the work order template to perform its assigned task.

Because a resource can be a hardware system or personnel, a resource is identified within the system by its type. To achieve load balancing, resource instances that are the same type and that perform the same set of tasks are managed as part of a resource group. Tasks are then distributed across all the resources within the group. Resource types and groups are defined within WatchPoint Studio and ingested into CMS. Resources are created within CMS.



Resources must be defined before work orders and tasks can be implemented.

Managing Resources

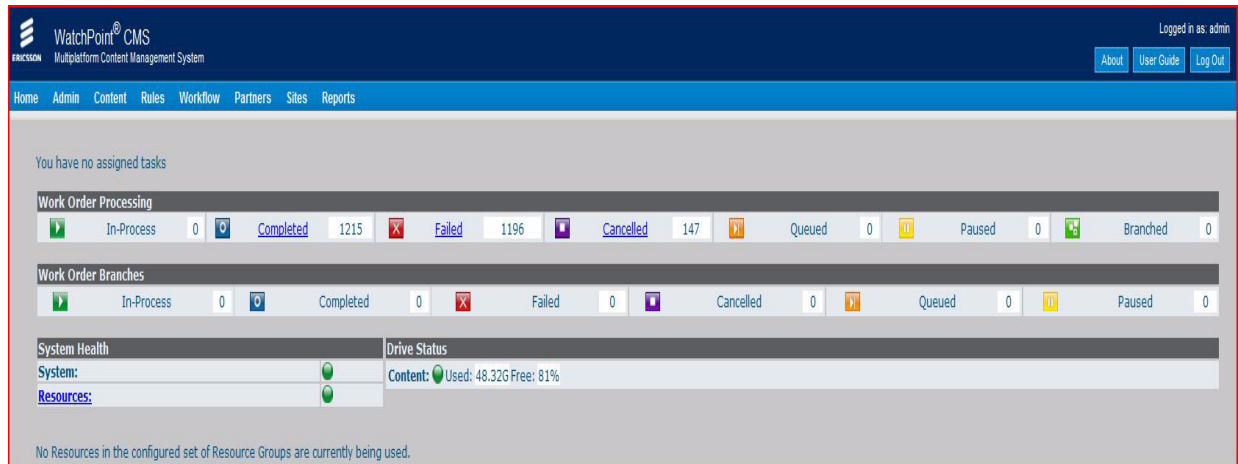
Resources are managed by the Workflow sub-component. You can delete a resource, or take a resource offline for maintenance and bring it back online.

- *Delete* – When the Delete button is clicked, the selected resources are deleted. Deleted resource instances will no longer be available in WatchPoint.
- *Offline/Online* – When you take resources offline, the selected resources are temporarily unavailable for the work orders. This is typically used for maintenance reasons. For example, if you need to perform a software upgrade to a particular transcoder, you can take the resource offline, perform the maintenance, and then bring the resource back online.

To display the list of all defined resources:

1. From the **Workflow** menu, select **Resources** -> **View**.

Figure 7.3: View Resources



The following is displayed for each resource:

- *Resource Name* – Identifies the entity. This provides a link to view the resource's details. To display additional resources, click the box next to the Resource Name field.
- *Connection String* – Specifies how CMS accesses the resource. This can be a URL or an e-mail address.
- *Resource Type* – Identifies the type of resource.
- *Group* – The group to which the resource belongs. This provides a link to the group's detail.
- *Status* – See *Defining Resource Status* below.
- *Admin Status* - See *Defining Resource Status* below.

2. To manage a resource, select the check box for the resource, then click **Delete**, **Take Offline**, or **Bring Online**.



A resource must be taken offline before it can be modified or deleted.

3. You can also create a new resource by clicking **Create**. See *Creating a Resource* for details.

Defining Resource Status

The *Operational Status* is the current status of the resource in real time. The *Admin Status* represents a resource's requested status. For example, when a user takes a resource offline, its *Admin Status* changes to offline. The resource continues to display the *Operational Status* as online until it has completed its current task. Then, it changes the *Operational Status* to offline.

The status icon displays one of five colors:







- *Green* – The resource is online.
- *Yellow* – The resource is offline.

- *Orange* – The resource is initializing. This occurs when the workflow system starts up and is checking whether the resource is ready to be used, or when a resource was taken offline and is in the process of coming back online.
- *Red* – One of two errors has occurred. The type of error can be determined by the information displayed in the row.
- *Gray* - The resource has an invalid license or the license for the resource does not exist.

Recognizing Online and Offline Status

The following table describes the resource status indicated by displayed icons.

Table 7.1: Resource Status Icons

Operational Status	Admin Status	Resource Status
		Online
		Completing work orders that were in progress when the Offline state was requested.
		The user is taking the resource offline to modify the status.

Recognizing Cause of Error

The following sections explain the two potential causes of error: heartbeat and timeout.

Heartbeat Error

A heartbeat error is indicated when the row text is blue and the icons are red in the operational status and green in the admin status. A heartbeat error occurs when a resource fails the periodic heartbeat check performed by WatchPoint. This can be caused by a resource failure or a network interruption. WatchPoint recovers the resource from a heartbeat error automatically when the normal heartbeat response resumes.

Timeout Error

A timeout error is indicated when the *Connection String*, *Resource Type*, and the *Operational Status* are red. The admin status is still green. This type of error occurs when a task is not completed in the time frame. For example, a human resource is in a timeout error state when a user task is not completed within the time frame.





Correcting the Error Status

Heartbeat status is recovered automatically by the system and no user interventions are required.

Recognizing Initializing Status

The following table describes indicators for initialization status.

Table 7.2: Initialization Status Indicators

Operational Status	Admin Status	Resource Status
		The user clicked Bring Online . The resource is initializing.
		Initialization is complete.

Creating a Resource

To create a new resource:

1. From the **Workflow** menu, select **Resources** -> **View**. The Resources list page displays.
2. Click **Create**. The Create Resource page displays. Required fields are marked with an asterisk.

Figure 7.4: Creating a Resource



Create Resource

*Type : Site Manager

Functional Type:

*Group: Site Manager

*Name:

*Connection String: [URL]

*Max Concurrent Usage: [Value 0(zero) means Infinity]

Admin Status: Online

Operational Status: Offline

Ignore Timeouts: ☐ (do not set status to ERROR automatically if a Work Order using this resource times out)

Save Cancel

* Denotes Required Field

4. Select the *Type* of resource being created. Examples of resource types include:
 - ADI 1.1 (ISA)
 - Anystream Agility
 - Cablelabs VOD Metadata Parser
 - Content Management
 - Content Planning
 - File Subsystem
 - Human

- MPlayac
- MPlayer
- Rule Engine
- Site Manager
- XPORT IFrame
- XPort Producer



Resource types are deployment dependent. Users might see different sets of resource types specific to their deployment.

The list is populated by the data ingested from Studio. Displayed parameters change to reflect the selection. For example, the Connection String for a human resource type is an e-mail. For a device or location, the Connection String is a URL. The human resource type does not have a *Heartbeat Connection String* or *Heartbeat Frequency*.

Figure 7.5: Human Resource Type

Create Resource

*Type : Human

Functional Type :

*Group : Content Manager
Quality Control

*Name :

*ConnectionString : [Email Address]

*Max Concurrent Usage : [Value 0(zero) means Infinity]

*Admin Status : Online

*Operational Status : Offline

5. Select the *Functional Type*, which further restricts this resource to specific uses within its specified type. This list might be populated.
6. Select the *Group* this resource will belong to. The options depend on the type of resource being configured. For example, if the resource is a Human type, the groups might be Content Manager, Adult QC, and QC.
7. Select a *Name* that is the unique string used to identify the specific instance.
8. Enter the *ConnectionString* used to communicate with the resource, such as URL or IP:Port.
9. Define the *Heartbeat Connection String* for checking resource availability. Select the check box next to *Same As Connection String* or enter a value.
10. Enter the *Heartbeat Frequency* in seconds to define how often to check the heartbeat.
11. Enter *Max Concurrent Usage* to define the number of work orders this resource can process concurrently.



The status fields are populated by the system and cannot be modified. They are included for informational purposes only.

12. Click *Ignore Timeouts* if desired. This option will be discussed in a subsequent section.
13. Click **Save**.
14. To return to the View Resources page without saving entries, click **Cancel**.

Viewing a Resource

Once a resource is created, you can view its current settings.

To view a resource:

1. Click a resource from the Resource Group page, or click a resource name from the View Resources page. The Modify Resource page displays for the selected resource.

Figure 7.6: Modify Resource (Online)

If the resource is online, the only available actions are **Take Offline** or **Cancel**.

2. To leave the settings unchanged, click **Cancel**. To change a resource's settings, click **Take Offline**.

Modifying a Resource

To be modified, a resource must be taken offline.

To modify a resource:

3. Take the resource offline. The **Take Offline** option is available on the View Resources page and on the Modify Resources page. Click the [Resource Name](#) on the View Resources page. The modify resource page displays.
4. Click **Take Offline**. The screen displays the following:

Figure 7.7: Resource Offline Message

Resource [Content\(# 8\)](#) has been successfully made **Offline**

5. Click the link from this message to modify the resource. The screen displays the following:

Figure 7.8: Modify Resource (Offline)

The screenshot shows the 'Modify Resource' form for an offline resource. The form includes the following fields and options:

- *Type :** Content Trafficking (dropdown menu)
- Functional Type:** (dropdown menu)
- *Group:** Content Planning (dropdown menu), Content Trafficking (dropdown menu), PMM (dropdown menu)
- *Name:** Content (text input field)
- *Connection String:** http://10.232.2.79:8080/portal (text input field) [URL]
- *Max Concurrent Usage:** 0 (text input field) [Value 0(zero) means Infinity]
- Admin Status:** Offline
- Operational Status:** Offline
- Ignore Timeouts:** ☐ (do not set status to ERROR automatically if a Work Order using this resource times out)
- Buttons:** Bring Online, Save, Cancel
- * Denotes Required Field**

6. When the resource is offline, you can modify the fields. The resource's *Type* and *Functional Type* cannot be modified because these define other available attributes. The resource status cannot be changed.
7. Enter changes and click **Save**. Changes are saved and a confirmation displays.
8. To return to the View Resources page without saving entries, click **Cancel**.
9. To bring the resource online, click **Bring Online**. A confirmation message is displayed.

Ignore Timeouts Option

The Modify Resource page contains an option to ignore timeouts if a resource fails. The Work Order will check for pre-set amount of failures before a message is displayed. If this box is checked, and the resource takes a long time to process, an error message will display and the work order will continue to retry. The default amount of retries is currently set to three.

Figure 7.9: Modify Resource Ignore Timeouts

Modify Resource

*Type : Rule Engine

Functional Type:

*Group: Rule Engine
Rule Executor
Rule Progress Tracker

*Name: Yaga rule Manager

*Connection String: http://localhost:8080/portal/#Rule [URL]

*Max Concurrent Usage: 0 [Value 0(zero) means Infinity]

Admin Status: Online

Operational Status: Online

Ignore Timeouts: ☐ (do not set status to ERROR automatically if a Work Order using this resource times out)

Take Offline **Cancel**

* Denotes Required Field

Check this box so resource will not fail

Viewing Resource Plugins

WatchPoint architecture is extensible. You can create your own resource type or group and add it to the system. Plugins provide communication between the resource and CMS.



Instructions for deploying a new resource type or group are described in the *Software Development Kit Guide* that accompanies your system.

Plugins can be displayed by Groups or Type. To display a plugin after it is deployed:

Select **Workflow** -> **Resources** -> **Types** or **Workflow** -> **Resources** -> **Groups**.

A list of plugins displays the status of the plugins and any existing error messages.

Figure 7.10: View Resource Type Plugins

Resource Types			
Name	System ID	Error Messages	Status
ADI 1.1 (ISA)	AD		
AMS	06	• The Plugin for Resource Type: AMS[06] is missing or is invalid.	
Alloy	45	• The Plugin for Resource Type: Alloy[45] is missing or is invalid.	
Anystream Agility	08		
CMS	02		
CableLabs VOD 1.1 Metadata Parser	cl		
Content Management	CM		
Content Trafficking	PM		
DigitalRapids	dr	• The Plugin for Resource Type: DigitalRapids[dr] is missing or is invalid.	
Echo	27	• The Plugin for Resource Type: Echo[27] is missing or is invalid.	
Envivio Adapter	ea	• The Plugin for Resource Type: Envivio Adapter[ea] is missing or is invalid.	
FMS training	zz		
FMS training	zz	• The Plugin for Resource Type: FMS training[zz] is missing or is invalid.	
File Subsystem	07		
Host	ip	• The Plugin for Resource Type: Host[ip] is missing or is invalid.	
Human	04		
Lock	36	• The Plugin for Resource Type: Lock[36] is missing or is invalid.	
Math	28	• The Plugin for Resource Type: Math[28] is missing or is invalid.	
Mediapath Manager	11	• The Plugin for Resource Type: Mediapath Manager[11] is missing or is invalid.	
Mediaware	15	• The Plugin for Resource Type: Mediaware[15] is missing or is invalid.	
Mencoder	17	• The Plugin for Resource Type: Mencoder[17] is missing or is invalid.	
Mplayer	MC		
N2BB Alerts Server	18	• The Plugin for Resource Type: N2BB Alerts Server[18] is missing or is invalid.	
Rhonet Transcoding	tt	• The Plugin for Resource Type: Rhonet Transcoding[tt] is missing or is invalid.	
Rule Engine	re		
Site Manager	SM		
TestVJType	VJ	• The Plugin for Resource Type: TestVJType[VJ] is missing or is invalid.	
Utilities	ut	• The Plugin for Resource Type: Utilities[ut] is missing or is invalid.	
VTPS	03		
Watch Folder	12		

Figure 7.11: View Resource Group Plugins

Resource Groups			
Name	System ID	Error Messages	Status
ADI_Group	AD		
AMS	06	• Resource Type for System ID: 06 is inactive or not found in database	
AMS (Monitoring)	06	• Resource Type cannot be changed.	
AMS External	06	• Plugin is missing.	
Adult AMS	06	• Resource Type for System ID: 06 is inactive or not found in database	
Adult QC	04	• Resource Type cannot be changed.	
Adult Transcoder	08		
Adult VTPS	03		
Adult Video - HD	05	• Resource Type for System ID: 05 is inactive or not found in database	
Adult Video - SD	05	• Resource Type cannot be changed.	
Adult Video - SD - QVGA	05	• Resource Type for System ID: 05 is inactive or not found in database	
Adult XPort Verifier	09	• Resource Type cannot be changed.	
Artwork	10	• Resource Type for System ID: 10 is inactive or not found in database	
Asset Management System	AD		
CIF WatchFolder	12	• Plugin is missing.	
CMS	02		
Clip XPort Verifier	09	• Plugin is missing.	
Content Ingest	PM		
Content Management	CM		
Content Manager	04		
Content Planning	PM	• Plugin is missing.	
Content Trafficking	PM		
DigitalRapids	dr	• Plugin is missing.	
Echo	27	• Plugin is missing.	
Envivio Adapter	ea	• Plugin is missing.	
Episode WatchFolder	12	• Plugin is missing.	
External AMS	06	• Plugin is missing.	

Plugin Errors

If a plugin does not deploy successfully, the resources in that resource type or resource group are not available. Errors can indicate expired licenses, invalid plugins, etc. Errors are displayed in the user interface in the *Error Messages* column.

Developers who have created their own plugins use these pages to identify errors ingesting the plugin into WatchPoint if any occur.

To resolve errors:

1. Return to WatchPoint Studio.
2. Fix the plugins.
3. Export the plugins.
4. Restart CMS.

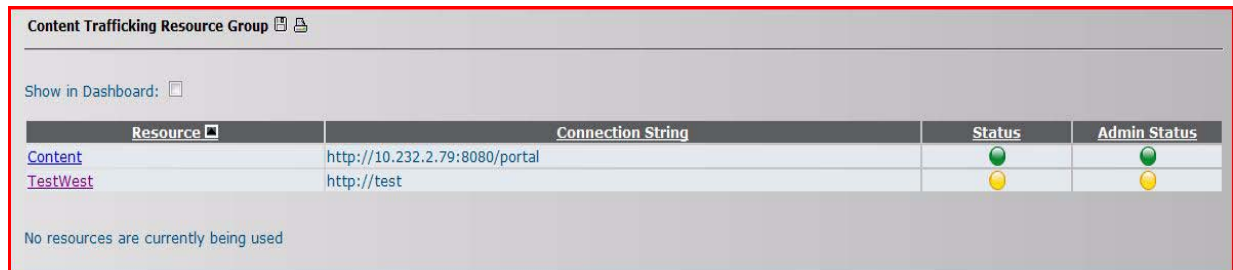
Viewing a Resource Group

Resource groups enable the workflow to balance the workload by distributing tasks among the group members.

To view a resource group:

1. From the *View Resources* page, click a link in the *Group* column. The resources display for the selected group.

Figure 7.12: Resource Group

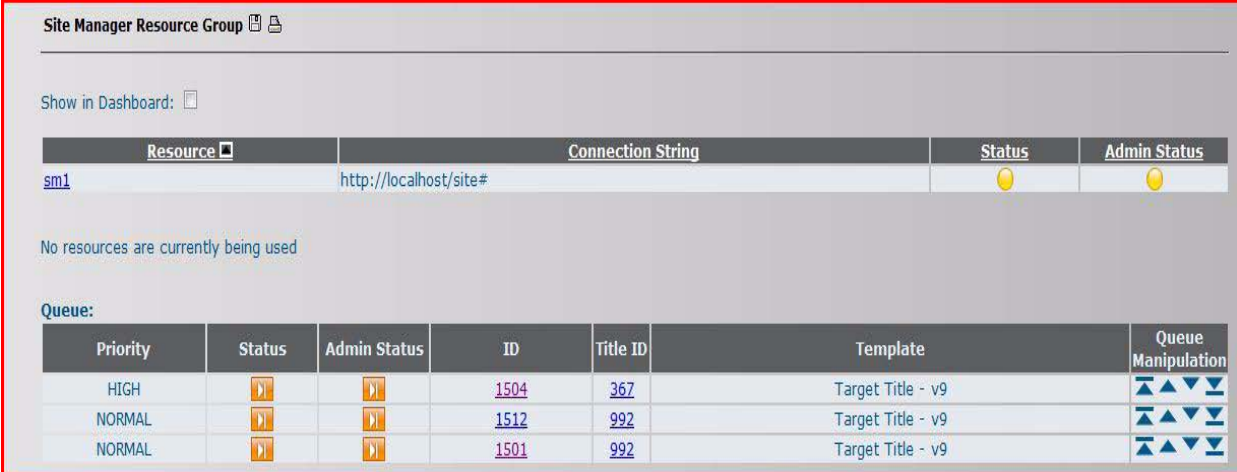


Resource	Connection String	Status	Admin Status
Content	http://10.232.2.79:8080/portal	●	●
TestWest	http://test	●	●

No resources are currently being used

The Resource Group page lists the member resources, including the Resource name, connection string, Status and Admin Status. Any resources that are in use display below the group's information. Any work orders queued for this resource group display on the bottom portion of the page.

Figure 7.13: Resource Group with Queue



The screenshot shows the 'Site Manager Resource Group' interface. At the top, there's a header 'Site Manager Resource Group' with a help icon. Below it, a 'Show in Dashboard' checkbox is present. A table lists resources with columns: Resource, Connection String, Status, and Admin Status. One resource 'sm1' is listed with connection string 'http://localhost/site#'. Below the resource table, a message states 'No resources are currently being used'. A 'Queue:' section contains a table with columns: Priority, Status, Admin Status, ID, Title ID, Template, and Queue Manipulation. The queue contains three items, all with 'Target Title - v9' as the template.

Resource	Connection String	Status	Admin Status
sm1	http://localhost/site#		

No resources are currently being used

Queue:

Priority	Status	Admin Status	ID	Title ID	Template	Queue Manipulation
HIGH			1504	367	Target Title - v9	
NORMAL			1512	992	Target Title - v9	
NORMAL			1501	992	Target Title - v9	

2. To display the number of work orders in the group's queue, select the check box next to *Show in Dashboard*. A confirmation message will display.

Figure 7.14: Resource Group Queue Display on Home Page



The screenshot shows a 'QUEUES' section with a list of subsystems and their corresponding work order counts.

Subsystem	Count
Content Management	0
Content Manager	3
Content Trafficking	0
File Management Subsystem	0
Quality Control	0
Transcoder	0
XPort Verifier	0

Work order priority:

Attribute that influences the order in which tasks are addressed within a queue. Queued orders with a higher priority are processed before those with a lower priority.

Changing Work Order Priority in the Queue

Work order priorities can be changed on the resource group page. Priorities are assigned when a work order is created. This is described further in the next chapter.

To change work order priority:

1. From the **Workflow** menu, select **Resources** -> **View**.
2. From the list of resources, click a link in the *Group* column. The following is displayed for queued work orders in the selected group:
 - *Priority*
 - *Status*
 - *Admin Status*
 - *ID* (Work Order Number)
 - *Title ID*
 - *Template*
 - *Queue Manipulation*

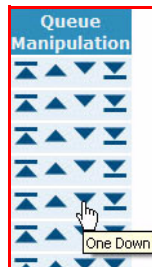
Figure 7.15: Queued Work Orders for a Group

Queue:						
Priority	Status	Admin Status	ID	Title ID	Template	Queue Manipulation
NORMAL			113		Package Ingest - v41	
NORMAL			114		Package Ingest - v41	
NORMAL			115		Package Ingest - v41	

A set of arrows displays in the *Queue Manipulation* column.

- Click an arrow to move a work order up or down within the queue. Arrows move the work order to the top, one position higher, one position lower, or to the bottom of the queue.

Figure 7.16: Change Work Order Priority



Moving a work order above or below another order with the same priority does not change the assigned importance; it only changes the order of processing. When a work order with lower priority is moved above a work order with higher priority, that work order's priority is changed to the higher priority.

- Click an [ID](#) value to open the View Work Order Tasks page. This view is described in Chapter 5.

8

MONITORING

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Overview

WatchPoint provides several layers of system monitoring. The dashboard displays the current resource status and the number of tasks waiting in queue. The CMS home page displays Content Planning alerts. WatchPoint also provides a configurable alert notification system.

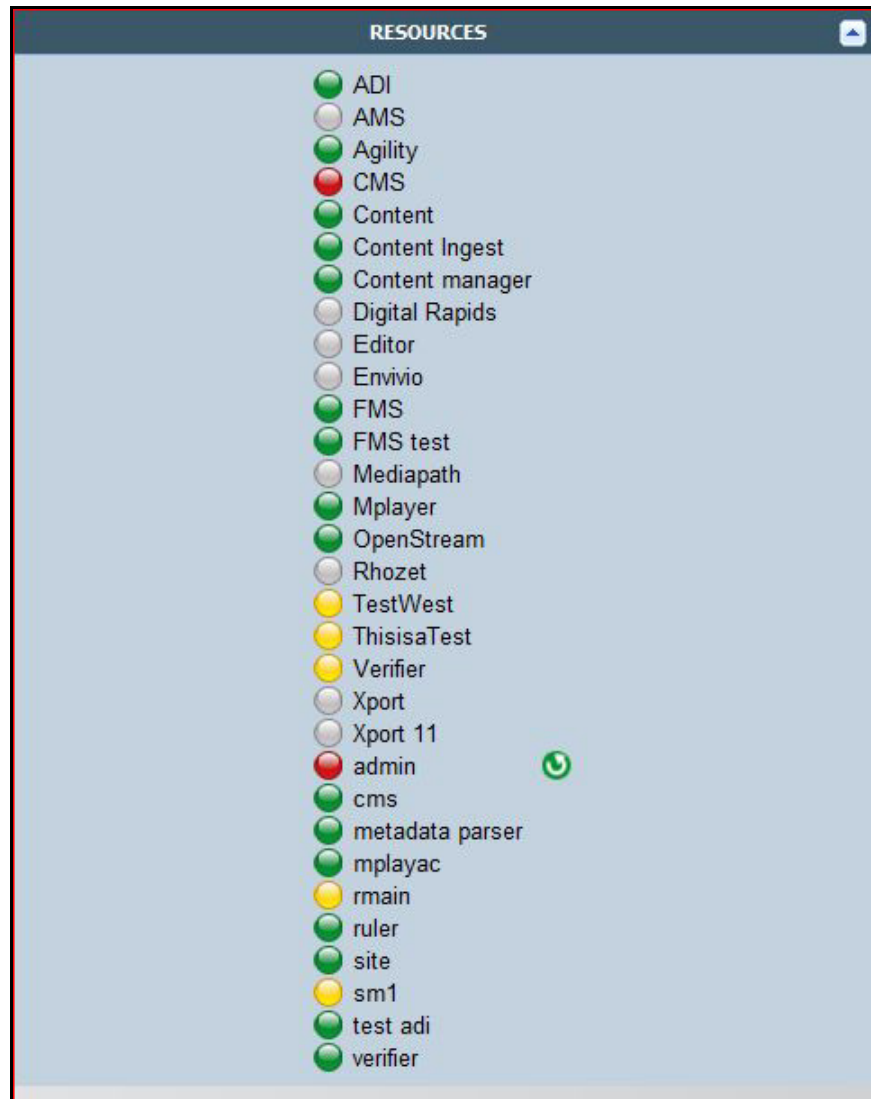
Monitoring Through the Interface

This section examines monitoring provided within the graphical user interface (GUI). The CMS home page and the Workflow component's dashboard view both provide insight into the system's health.

Resources

The Resources area lists the resources used by CMS and their status. Resources can be hardware, software, or human users.

Figure 8.1: CMS Resources Area



Green indicates that the resource is operational, yellow indicates that it is offline, gray indicates that the resource is not licensed, and red indicates that the resource is in an error state.

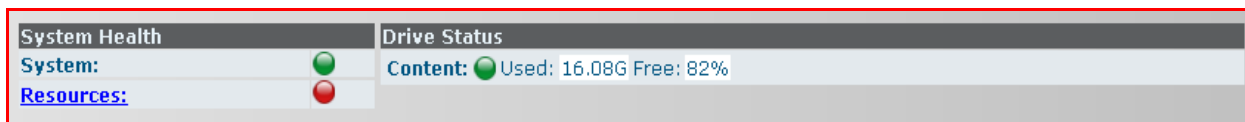


A resource that is displayed as not available might or might not be in an error state.

Visibility into system status is also available in the workflow dashboard because resources are managed by the Workflow component.

To view system resources and status, from the **Workflow** menu, select **Dashboard**.

Figure 8.2: Workflow Resource Health View



In this view, the status of the system and all resources are displayed, but not listed individually. In the previous figure, at least one resource is in an error state. The dashboard provides the current status and usage of configured drives.

Queues

Resource group: A collection of resources that perform the same task. Processes are distributed across the group.

The queues area on the *Home Page* lists the **resource groups** defined in the system as well as the number of work orders in the queue waiting to obtain resources from the resource group associated with the current task.

Figure 8.3: Queues Area



The Resource Group page determines whether the group is listed in the summary.

Figure 8.4: Resource Group Dashboard Visibility



This setting controls whether the group's queue is seen both on the home page and on the Workflow's dashboard view.

Figure 8.5: Workflow Dashboard Queue

Resource 	Status	Admin Status	ID	Title ID	Current Task	Progress
admin			1281		Create Title from Package?	0%
admin			1280		Create Title from Package?	0%
admin			1279		Create Title from Package?	0%
admin			1277		Create Title from Package?	0%
admin			1276		Create Title from Package?	0%

Content Planning Alerts

The CMS home page contains an area listing any alerts related to Content Planning. Content Planning alerts are related to the receipt and distribution of scheduled assets.

About the Alerts System

Alert pattern: A specific character string used to identify messages to trigger an alert.

Alert: The action to take when the pattern is matched.

WatchPoint monitors messages from resources to alert users of errors.

Alert patterns are configured to match possible message strings. When an alert pattern is matched, an **alert** is triggered. WatchPoint includes defined alert patterns and provides alert and alert pattern management capabilities. Alert patterns and the alerts based on those patterns can be created, edited, and removed within the UI.

To display a list of active alerts and their properties:

1. From the **Workflow** menu, select **Monitoring** -> **Alerts**.

Figure 8.6: View Alerts

Alerts  						
<input type="checkbox"/> Alert Identifier	Alert Pattern	Threshold	Frequency	E-mail	SNMP	
<input type="checkbox"/> Database Operation Failed	Database Operation Failed Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Drive Status	Drive Status	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Duplicate Parameters	Duplicate Parameters For Workorder Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Invalid Template License	Invalid License for Templates Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Login Failed	Login Failed Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Pitch Schedule Notification	Pitch Schedule Notification Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Planner Notification	Planner Notification Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Protection Key Mismatch	Protection Key Mismatch Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Resource Failed	Resource Failed Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	
<input type="checkbox"/> Resource Initialization Failure	Resource Initialization Failure Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓	

[Create](#) [Delete](#)

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Defined alerts are listed with their descriptive properties. Alerts are a combination of the triggering event and how the alert will behave when generated.

2. To view an alert's details, click the [Alert Identifier](#).

Figure 8.7: Alert Details

Modify Alert

*Alert Identifier: Duplicate Parameters

*Alert Pattern: Duplicate Parameters For Workorder Pattern ▼

Threshold: Tell me if this alert happens

* 1 time(s) per * 1 : 0 : 0 (hhh:mm:ss)

Frequency: Do not trigger action more than

* 1 time(s) per 1 : 0 : 0 (hhh:mm:ss)

Alert Actions:

☐ E-Mail :

☒ SNMP Trap: 2

Save **Cancel**

* Denotes Required Field

The displayed page illustrates the relationship of the alert pattern to the alert definition.

3. Select an *Alert Pattern* from the drop-down list.
The displayed properties combine to form the alert definition.
Alert patterns form the basis of alerts.

WatchPoint is configured with the following alert patterns and alert definitions.

Table 8.1: Alert Patterns and Alert Definitions

Alert	Alert Pattern Reg Expression	Description
Pitch Schedule Notification	.*titles did not achieve status.*	Title processing milestone was not achieved in the expected timeframe
Planner Notification	.*assets for planner.*	Asset files for a title did not arrive by the expected date
Login Failed	.*Login failed for.*	A failed login attempt is detected

SNMP: *Simple Network Management Protocol.*

On initial installation, these alerts are configured to send **SNMP** traps. They can also be configured to send e-mail alerts by modifying the definition.

Managing Alert Patterns

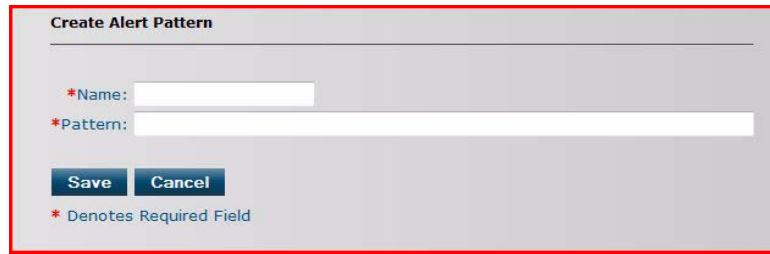
Before additional alerts can be created for other events, a new alert pattern must be defined to match the message string issued by a resource. Alert patterns are a specific set of characters that are stored in the system logs. When the pattern is detected, the alert is triggered. Patterns support the use of wild card characters to maximize matching flexibility.

Adding Alert Patterns

To add an alert pattern:

1. From the **Workflow** menu, select **Monitoring** -> **Alert Patterns**.
Click the **Create** button.

Figure 8.8: Creating an Alert Pattern



Create Alert Pattern

*Name:

*Pattern:

Save **Cancel**

* Denotes Required Field

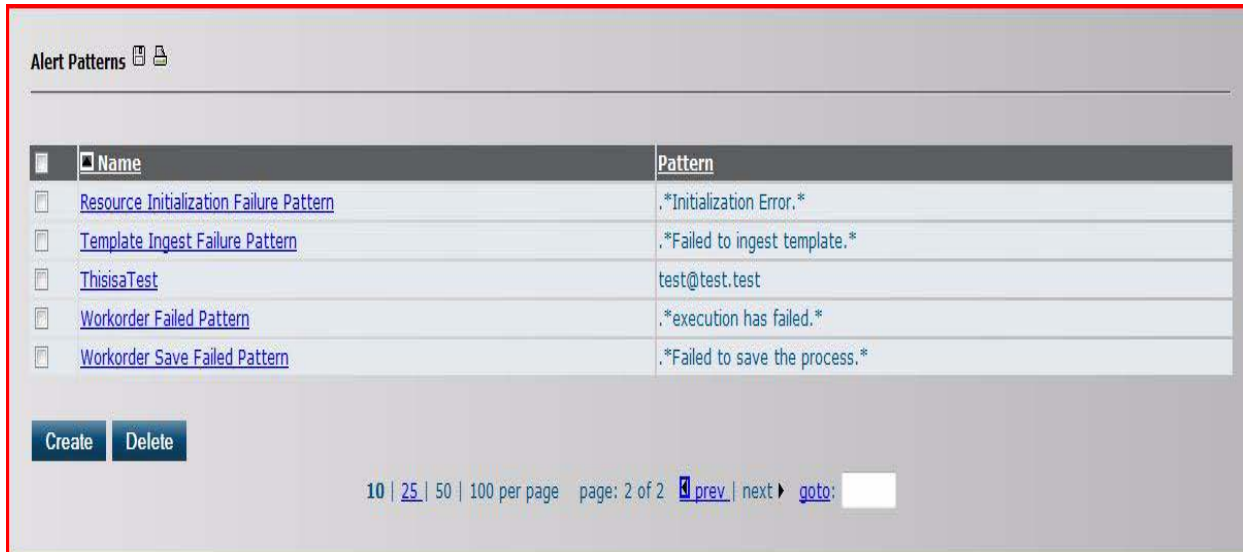
2. Enter a *Name* for the alert pattern.
3. Enter the string *Pattern* to match and click **Create**. The new pattern is added.
4. To return to the View Alerts page without saving changes, click **Cancel**.



Viewing Alert Patterns

To view alert patterns:

1. From the **Workflow** menu, select **Monitoring** -> **Alert Patterns**.

Figure 8.9: View Alert Patterns



Alert Patterns  

<input type="checkbox"/>	Name	Pattern
<input type="checkbox"/>	Resource Initialization Failure Pattern	.*Initialization Error.*
<input type="checkbox"/>	Template Ingest Failure Pattern	.*Failed to ingest template.*
<input type="checkbox"/>	ThisisaTest	test@test.test
<input type="checkbox"/>	Workorder Failed Pattern	.*execution has failed.*
<input type="checkbox"/>	Workorder Save Failed Pattern	.*Failed to save the process.*

Create **Delete**

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Defined alert patterns are displayed with the pattern's *Name* and the specified *Pattern*.

2. To remove a pattern, select the check box next to the pattern name and click **Delete**.

Modifying Alert Patterns

To modify alert patterns:

1. On the View Alert Patterns page, click the alert pattern [Name](#). The Modify Alert Pattern page is displayed.
2. Enter the string modifications.

Figure 8.10: Modify an Alert Pattern



3. Click **Save**. Changes are saved.
4. To return to the View Alerts page without saving changes, click **Cancel**.

Managing Alerts

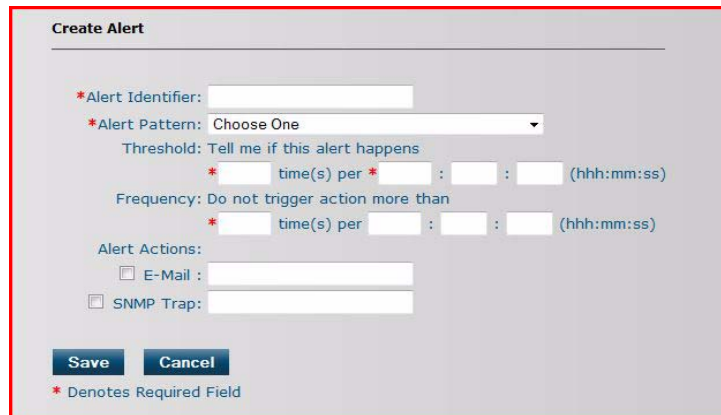
Alerts can be added, modified, and removed from the system. The user can add new alerts to send a notification or display an error message when WatchPoint receives a matching alert pattern communication string.

Adding an Alert

To add an alert:

1. From the **Workflow** menu, select **Monitoring** -> **Alerts**. Click the **Create** button.

Figure 8.11: Add Alert



2. Enter the following information. Required fields are marked with an asterisk:
 - *Alert Identifier* – Unique name given to identify the alert.
 - *Alert Pattern* – The error string that is checked for in the log. This is a drop-down list.
 - *Threshold* – The number of alerts that occur within a given period before notification is sent out.
 - *Frequency* – How often the alert notification is sent out.
 - *E-Mail* – E-mail address that will receive the alert. The system must have access to an e-mail service.
 - *SNMP Trap* – Whether the alert is configured to send SNMP traps. The data is an integer value and conforms to the system's configuration MIB file. Refer to the *WatchPoint Workflow System Field Service Guide* for more information.
3. Click **Save**. The definition is added.

- To return to the View Alerts page without saving changes, click **Cancel**.

Viewing Alerts

To view alerts:

- From the **Workflow** menu, select **Monitoring** -> **Alerts**.

Figure 8.12: Defined Alerts

<input type="checkbox"/> Alert Identifier	Alert Pattern	Threshold	Frequency	E-mail	SNMP
<input type="checkbox"/> Database Operation Failed	Database Operation Failed Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Drive Status	Drive Status	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Duplicate Parameters	Duplicate Parameters For Workorder Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Invalid Template License	Invalid License for Templates Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Login Failed	Login Failed Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Pitch Schedule Notification	Pitch Schedule Notification Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Planner Notification	Planner Notification Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Protection Key Mismatch	Protection Key Mismatch Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Resource Failed	Resource Failed Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓
<input type="checkbox"/> Resource Initialization Failure	Resource Initialization Failure Pattern	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		✓

Create Delete

10 | 25 | 50 | 100 per page page: 1 of 2 ◀ prev | next ▶ goto:

The Alerts page displays the following for defined alerts:

- *Alert Identifier* – Identifies the definition
- *Alert Pattern* – The string that triggers the instance
- *Threshold* – How often the string must be matched within a specific time period for the alert to be triggered
- *Frequency* – How often the alert is triggered within a time period
- *E-mail* – A checkmark in this column indicates that an e-mail notification will be sent for this alert
- *SNMP* – A checkmark in this column indicates that alert is configured to send SNMP traps.

Editing an Alert

To edit an alert:

- On the View Alerts page, click the [Name](#) of the definition in the *Alert Identifier* column. The selected alert is displayed.

Figure 8.13: Modify an Alert

Modify Alert

*Alert Identifier: Duplicate Parameters

*Alert Pattern: Duplicate Parameters For Workorder Pattern ▼

Threshold: Tell me if this alert happens

* 1 time(s) per * 1 : 0 : 0 (hhh:mm:ss)

Frequency: Do not trigger action more than

* 1 time(s) per 1 : 0 : 0 (hhh:mm:ss)

Alert Actions:

☐ E-Mail :

☒ SNMP Trap: 2

Save **Cancel**

* Denotes Required Field


2. Enter changes. All fields can be changed except the *Alert Identifier* field.
3. Click **Save** for changes to take effect immediately.
4. To return to the View Alerts page without saving changes, click **Cancel**.




Viewing Alert History



The Alert History page displays a history of alerts that have occurred. To view alert history:

1. From the **Workflow** menu, select **Monitoring** -> **Alert History**. The Alert History page is displayed.



Figure 8.14: View Alert History

Alert History 

Start Date: 2010-05-10  Alert Identifier: All  Action Taken: All  **Search**

End Date: 2010-05-10  Alert Pattern: All 

<input checked="" type="checkbox"/> Time Logged	Alert Identifier	Alert Pattern	Action Taken
2010-05-22 10:45:02	Workorder Failed	Workorder Failed Pattern	
2010-05-22 10:45:01	Workorder Failed	Workorder Failed Pattern	snmp
2010-05-16 11:00:06	Workorder Failed	Workorder Failed Pattern	
2010-05-16 11:00:05	Workorder Failed	Workorder Failed Pattern	snmp
2010-05-13 09:19:13	Resource Failed	Resource Failed Pattern	
2010-05-13 09:18:13	Resource Failed	Resource Failed Pattern	
2010-05-13 09:17:13	Resource Failed	Resource Failed Pattern	snmp
2010-05-13 09:16:13	Resource Failed	Resource Failed Pattern	
2010-05-13 09:15:13	Resource Failed	Resource Failed Pattern	
2010-05-13 09:14:13	Resource Failed	Resource Failed Pattern	

10 | [25](#) | [50](#) | [100](#) per page page: 1 of 231  [next](#)  goto:

By default, results are limited to the current day and sorted by *Time Logged*. For each alert, the *Alert Identifier*, *Alert Pattern*, and the type of *Action Taken* are displayed.

2. You can filter results by date range, *Alert Identifier*, *Alert Pattern*, and *Action Taken*. Criteria can be applied in any combination. Both the identifier and pattern fields are drop-down lists.
3. To display detail for an alert, click the alert from the *Alert Identifier* column.

Figure 8.15: View Alert History Detail

Alert History Detail

Alert Identifier : Workorder Creation Failed

Emailed To :

SNMP Detail : 9

Log Text : [CMS]-Failed to instantiate Work Order
for message [re0101]

Cancel

The Alert History Detail page provides the specifics of the action taken (e.g., trap ID or e-mail address) and the *Log Text*.

4. Click **Cancel** to return to the history list.

Repository Browser

Files and packages processed by WatchPoint are managed in the content repository, which is set up at the time of system configuration. Often users do not have access to these folders directly. This is done to preserve file security and ensure that additional errors are not introduced by manual edits to these files and folders.

The Repository Browser provides a read-only tree view of the content repository. Displayed information includes the file's name, size, and date modified. The configuration is specified in the database. This includes the storage path, capacity, usage, and threshold percentages. WatchPoint can also be configured so that file names link to the file's creating work order.

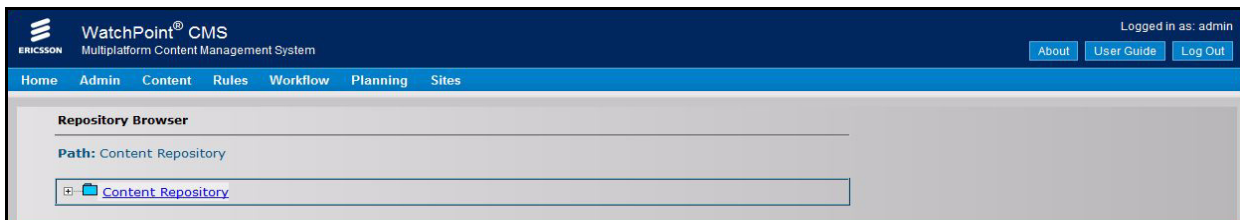
Storage drives cannot be added through the WatchPoint UI.

Viewing the Repository Browser

To view the repository browser:

1. From the **Workflow** menu, select **Monitoring** -> **Repository Browser**. The configured drives are listed as folders within the Content Repository. These correspond with the drive names in the Drive Status table on the dashboard.

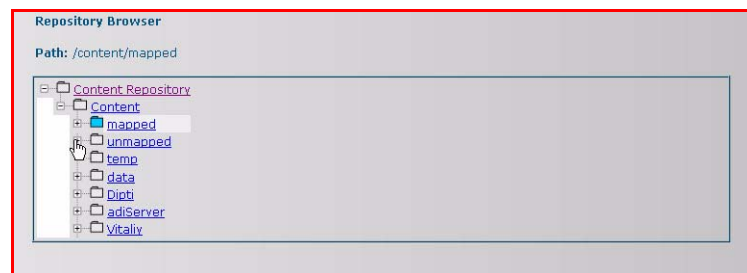
Figure 8.16: Repository Browser



Initially, the root folder of the Content Repository is displayed.

2. To navigate the directory, click the plus sign or the folder name in the tree to expand the folder and display its contents.

Figure 8.17: Folder Contents



3. Select a folder to display the folder's files and file information. Displayed file information includes the file's name, size (in kilobytes), and last modified date and time.

Figure 8.18: File Information

Repository Browser

Path: /content/HBO.com/XPPK0001177539262937

	Name	Size(KB)	Date Modified
Content Repository			
Content			
mapped	ADI.XML	3	2009-08-10 10:52:34
unmapped	ADI.DTD	1	2009-08-10 10:52:34
temp	cap1.mpg	322763	2009-08-10 10:52:46
n2bb.com			
data			
directv.com			
DTV.com			
kk1.com			
HBO.com			
XPPK0001177539262937			
XPPK0001177539262938			
XPPK0001177539262940			
vlada			
g			
export			
failed			
ingest			
1008			
1002			

Performance Monitoring

CMS can expose the following performance and workflow counters over SNMP for applications to query using *SNMP Get* calls:

- Resource Group Queue size
- Count of work orders in a different status
- Count of work order branches in a different status
- Count of unresolved Content Planning alerts
- Work order creation statistics (create rate/sec, create rate/min)
- Work order process cache (cache size, cache hits, cache misses)
- Work order template cache (cache size, cache hits, cache misses)
- Resource log events (average queue delay, max size, current size, total added to queue)
- Process log events (average queue delay, max size, current size, total added to queue)
- Message off load queue: received message for which work orders have not been created (average queue delay, max size, current size, total added to queue)

CHAPTER

9

PARTNERS AND SERVICES

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Introduction

Service: A programming bundle. For example, Starz is a partner and Starz-on-Demand is a service. Partners are associated with a service; in the case of distribution, multiple partners who subscribe to that bundle can be associated. Using the service, a schedule can be created that distributes the same set of titles to multiple partners.

Partner and Service management is the first place to get started with Content Planning. Schedules and jobs are managed on behalf of partners, which are third-party entities such as a content source or distributor. In the context of Content Planning, a service is essentially a defined group of subscribing partners. This means that assets pitched to a service are made available to all of the subscribing partners at once, relieving the system of multiple pitches of the same content to multiple destinations.

The Content Planning module controls the planning of distribution or receipt of content between the provider, the provider aggregator, and the operator, as well as between the aggregator and operator. Using planning scenarios and pitch schedules, work orders can be triggered to process and distribute those assets based on job definitions. A job triggers a work order or it triggers a rule set, for normalization and content processing rules. Only those rule sets with Scheduled events can be triggered by a rule set. When the specific conditions defined in the job are met, the work order is kicked off. A job can be a one-time occurrence or recurring.

Partners

The following are the three types of available partners:

- Source partner – The partner from whom assets are received.
- Distribution partner – The partner to whom the assets are distributed.
- Self partner – The WatchPoint customer organization. The self partner is created so that jobs can be scheduled and run independent of planner or pitch schedules. Only one instance of this partner type exists, which is created during system installation.

Viewing Partners

1. To view partners, select **Partners** -> **View**. The screen displays the following:

Figure 9.1: View Partners

Type	Name	Partner ID	Provider ID	Contact Email Address
DISTRIBUTION	CDN	21	4444@cdn.tv	lol@cdn.com
SOURCE	COMCAST	24	Comcast Cable	bettemidler@comcast.com
DISTRIBUTION	COMCAST6	27	c6	whynot@gmail.com
DISTRIBUTION	COX	15	cox.com	12@cox.com
SOURCE	Columbia	9	Columbia	Columbia@test.com
DISTRIBUTION	Comcast	5	comcast.com	v@v.com
DISTRIBUTION	QISH	25	dishnetwork.com	charo@dishnetwork.com
SOURCE	QTV	6	QTV.com	georgelopez@dtv.com
SOURCE	Dreamworks	4	Dreamworks	steven@dreamworks.com
SOURCE	HBO.com	28	HBO.com	test@test.com

The displayed list identifies the partners that have already been created. The following displays for each partner:

- *Type* – DISTRIBUTION, SOURCE, or SELF.
- *Name* – The Name of the partner.
- *Partner ID* – A unique number assigned by the system when the partner is created. This number identifies the partner within WatchPoint and cannot be changed or reused once it has been assigned.

- *Provider ID* – Usually the website of the partners name is entered here, such as DTV.com for DirecTV or comcast.com for Comcast.
- *Contact Email Address* – The partner's e-mail address.

One or more partners can be deleted from this page. A partner can only be deleted if it is not associated with a service, job, or schedule. The SELF partner cannot be removed.



Partners that are referenced within a template can be removed. If a referenced partner has been deleted, any work orders based on that template will fail.

To view a partner's management page, click the partner's [Name](#).

Creating Partners

Distribution and Source partners are defined within the user interface.

To create a partner:

1. Select **Partners** -> **View**. Click the **Create** button. The screen displays the following:

Figure 9.2: Create Partner

Create Partner

Partner Info

*Partner Type: DISTRIBUTION

*Partner Name:

*Provider Id:

Lookup Key:

Thumbnail: NO IMAGE

Select Remove

Contact Info

Contact First Name:

Contact Last Name:

*Contact Email:

Default Pitch Frequency

On MONDAY every week(s)

Partner Properties

Name	Value

Add

Notes

Save Cancel

* Denotes Required Field

2. Enter information for the partner:
 - Select *Distribution* or *Source* from the *Partner Type* drop-down.
 - The *Partner Name*, *Provider ID*, and *Contact Email* are all required fields, indicated by an asterisk.
 - The *Lookup Key* helps to uniquely identify the instance within the system. It is an arbitrary string assigned to a partner or service that is used by a template to look up the entity.
 - The *Default Pitch Frequency* field defines when the assets will be pitched to the destination. This is used for administrative purposes only.
 - The *Partner Properties* are name and value pairs that are accessible from workflow templates.

- The *Notes* field can be used to save any additional notes related to the partner.
3. Click **Save** to add the partner. A message is displayed with the partner name and assigned ID.
 4. Click **Cancel** to dismiss the page without saving.

Figure 9.3: Partner Created Successfully

Partner [ESPN \(#5\)](#) has been successfully created

Modifying Partners

Once the partner has been created, it can be viewed and managed.

To modify a partner:

1. Click the [partner name \(ID\)](#) from the “partner successfully created” message or click the partner name from the *View Partners* page. The area specific to partner management is displayed with the following submenu.

Figure 9.4: Partner Menu

[General](#) [Services](#) [Users](#) [Schedules](#) [Jobs](#) [Content Class](#)

2. The default page displays the **General** tab for the Modify Partner page. Enter changes in any of the desired fields.



Distribution partners will not have the Content Class option.

Figure 9.5: Modify Source Partner

General Services Users Schedules Jobs **Content Class**

Modify Partner

Partner Info		Contact Info	
*Partner Id:	13	Contact First Name:	Seth
*Partner Type:	SOURCE	Contact Last Name:	McFarlane
*Partner Name:	Warner Bros.	*Contact Email:	provider@test.com
*Provider Id:	Warner Bros.		
Lookup Key:			
Thumbnail:	<div>NO IMAGE</div> <div>Select Remove</div>		

Default Pitch Frequency
On MONDAY every 1 week(s)

Partner Properties		Notes
Name	Value	
Add		

Save Cancel

* Denotes Required Field

The *ID* and the *Type* cannot be changed for any partner type.

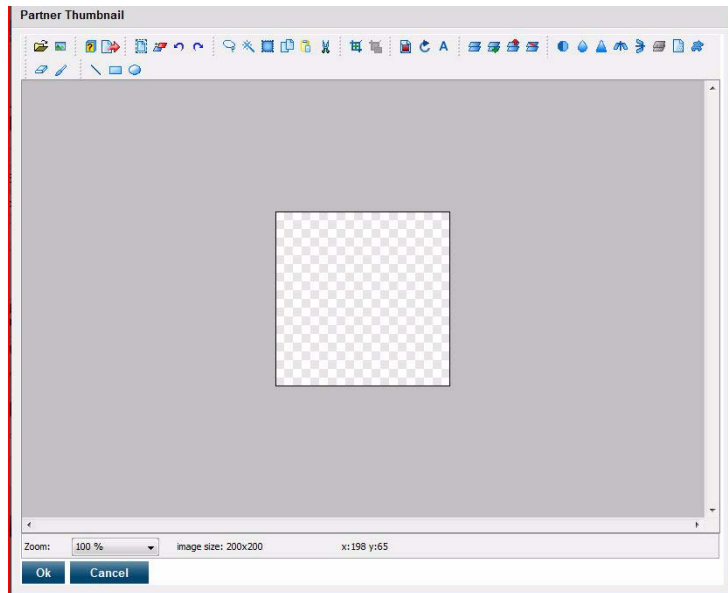
3. Click **Save**. The confirmation message displays.

Select Partner Thumbnail

Partner Thumbnails are displayed on Title pages and Search Results screens for titles that do not have title asset thumbnails available.

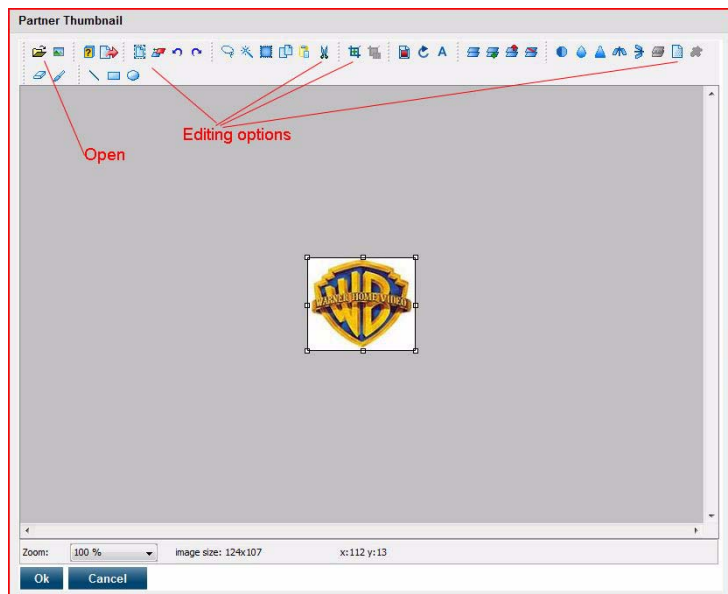
1. To add a thumbnail to the Modify Partner page, click the **Select** button. The screen displays the following:

Figure 9.6: Partner Thumbnail Edit Screen



2. Click the *Open* folder icon to browse for the desired thumbnail.
3. Select the thumbnail from the directory. The Thumbnail will be added to the Partner Thumbnail page as shown below:

Figure 9.7: Partner Thumbnail Added to Screen



4. Use the toolbar options to crop, edit or resize the thumbnail. Click **OK**

5. The thumbnail will be added to the Modify Partner page as shown below:

Figure 9.8: Source Partner with Thumbnail

The screenshot shows the 'Modify Partner' page with the following sections:

- General** (selected), Services, Users, Schedules, Jobs, Content Class
- Modify Partner**
- Partner Info**:
 - *Partner Id: 9
 - *Partner Type: SOURCE
 - *Partner Name: Warner Bros
 - *Provider Id: Warner.com
 - Lookup Key:
- Contact Info**:
 - Contact First Name: Seth
 - Contact Last Name: McFarlane
 - *Contact Email: warner@warnerbro.com
- Thumbnail**: A Warner Bros logo is shown with 'Select' and 'Remove' buttons.
- Default Pitch Frequency**: On MONDAY every week(s)
- Partner Properties**: A table with 'Name' and 'Value' columns, an 'Add' button, and a red 'X' icon.
- Notes**: A text area for notes.

6. Click **Save**. The confirmation message displays.
7. To delete the thumbnail, click **Remove**.

Services

To view subscribed services, select **Partners->Services** or click the **Services** tab. The screen displays the following:

Figure 9.9: View Partner Services

The screenshot shows the 'View Partner Services' page with the following table:

Associated Services for Partner: Warner Bros.		
Service Name	Service Id	Description
AdultSwim	10	Cartoon network
Miramax	2	

This page lists the partner's associated services. Assets distributed on behalf of a service are made available to all of the subscribing partners. Content is pitched to each target which allows content to be processed a single time and pitched to multiple targets.

The list displays the *Service Name*, *Service Id*, *Description*, *Associated Distribution Partners*, and *Associated Source Partners*. The associations are managed in the **Services** area.



The **Services** are filtered based on the user's provider association. The filtering is based on the source partner associated with the service. If no source partner is associated, the services are only visible to users with Self partner association.

Creating Services

The *Service Id* is a unique number assigned by the system when the service is created. The number cannot be reused or changed.

1. To create a new service, click the **Services** tab. The *View Services* screen displays.
2. Click the **Create** button from the *View Services* screen. The screen displays the following:

Figure 9.10: Create Services

Service Info	
*Service Name:	<input type="text"/>
Lookup Key:	<input type="text"/>

Service Properties	
Name	Value
<input type="text"/>	<input type="text"/>

Add

Save Cancel

* Denotes Required Field

3. Enter the *Service Name*.
The only required field is the *Service Name*. This can be any alphanumeric string. The *Service Name* identifies the service within the system; the service ID that is generated and assigned by the system when the instance is saved is used as the identifier.
4. Optionally, enter the *Lookup Key* and a *Description*. The *Lookup Key* is a string that the template uses to identify this entity.
5. Optionally, enter any *Service Properties*. These are name and value associations that can be called from a template.
6. Click **Save**. The confirmation message displays:



This feature is disabled if the Content Planning Module is not licensed.

Figure 9.11: Service Created message

Service [DISH \(#4\)](#) has been successfully created

Modifying Services

Once a service has been created, it can be modified and associated with partners.

There are three ways to modify services:

- Click the [Service Name \(ID\)](#) from the successfully saved message
- Click the [Service Name](#) from the *Services* page.
- Click the **Services** tab from the *View Partners* screen. The screen displays the following:

Figure 9.12: Modify Service

Modify Service

General Partners Schedules Jobs

Service Info

*Service Id: 5

*Service Name: Bosch Telekom

Lookup Key:

Service Properties

Name	Value
Norddeutscher Rundfunk	
Mitteldeutscher Rundfunk	

Add

Save Cancel

* Denotes Required Field

Description

German Cable TV

1. Enter changes.
2. Click **Save**. The confirmation message displays.

Associating Partners

To associate partners:

1. Select the **Partners** tab from the Modify Services screen.

Figure 9.13: Service Partners

General Partners Schedules Jobs

Partners for Service: TimeWarner

Distribution Partners

CDN
COMCAST6
Comcast
DISH
MGM
Mobile Portal
Syndicates
Web Portal
integration
new partner

Associated Distribution Partners

COX
MediaCable
Telekon

Source Partners

Columbia
DTV
Dreamworks
HBO.com
MOVIEPASS
MOVIEPLEX
Paramount
Universal Pictures
Warner Bros.

Associated Source Partners

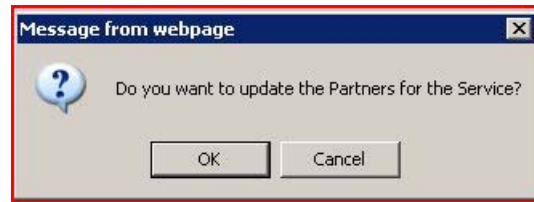
COMCAST

Save Cancel

A service can be associated with any number of and types of partners. Normally, a service is associated with distribution or source partners, but not both because jobs and schedules are relevant to one type or the other.

2. To associate a partner, select the partner name and click the right arrow. To remove a partner from an association, select the partner name and click the left arrow.
3. Click **Save**. The confirmation dialog displays:

Figure 9.14: Confirm update partners



4. Click **OK**. A confirmation message displays.

Once the partners and services are set up, you can create jobs, users, and schedules as described in the next sections.

Adding Users

The **Users** Tab is used to display the list of users authorized to access data associated with a content provider. A content provider is either a 'Source' partner or the 'Self' partner. The Users Tab also provides the ability to add or remove authorized users for a partner. Authorized users for a partner may view titles created for that partner as well as work orders that process such titles.

A user associated with the Self Partner is granted authorization to view data for all partners. The Users Tab only appears for 'Source' partners and the 'Self' partner. You can add users to any Source Partner.

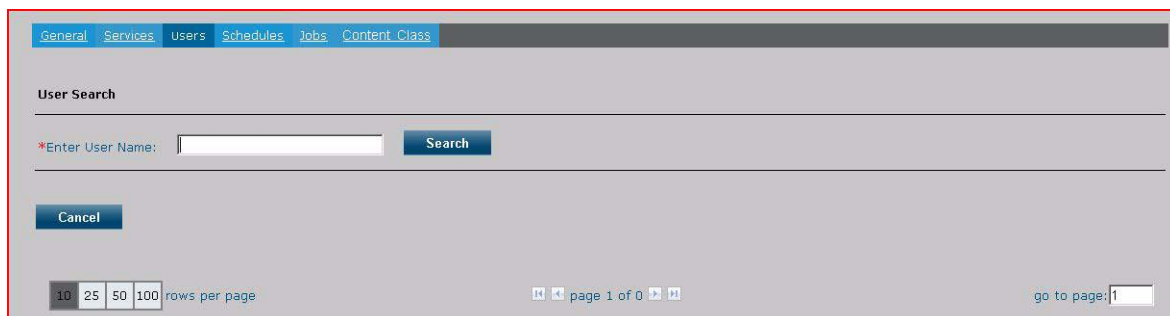
1. To add a new user, click the **User** tab. The screen displays the following:

Figure 9.15: Add User



2. Click the **Add** button. The screen displays the following:

Figure 9.16: Add User



- Enter the name of a valid user in the *Enter User Name* Field. Click Search. The screen displays the following:



To obtain a list of valid users, [See “Managing Users” on page 26.](#)

Figure 9.17: User Search Results

	User Name	First Name	Last Name	Status	Roles
<input type="checkbox"/>	roytest	Dimebag	Darrel		Admin
<input type="checkbox"/>	test	Layne	Staley		Executive

- Check the box next to the user(s) you wish to add to this partner. Click **Select**. The screen displays the following confirmation:

Figure 9.18: User Add Confirmation

	User Name	First Name	Last Name	Status	Roles
<input type="checkbox"/>	roytest	Dimebag	Darrel		Admin
<input type="checkbox"/>	test	Layne	Staley		Executive

About Schedules

Schedules define when and what titles are received from whom or pitched to where. The content planning component within CMS facilitates management of planners and schedules, the reconciliation of planned assets with content availability, the processing of the assets that are in the pitch schedule, and the actual asset delivery.

Job schedule specifies the timing information related to a job definition. Two types of content distribution schedules are available:

- Planning scenarios* – (planners) received from source partners and are ingested.
- Pitch schedules* – sent to distribution partners or services which are manually created in CMS.

Schedules Content

A schedule contains the following elements:

- ID* – Used to identify the schedule within CMS. This is generated by the database.

- *Status* – The status of this schedule. This is either New or Approved. Only Approved schedules are processed by jobs. Only New schedules can be changed or have titles added or removed.
- *Partner or Service ID* – The ID of the partner or service associated with this schedule.
- *Date* – The Date on which the list of assets are received or distributed.

Although schedules contain lists of assets to be processed, the list is not part of the schedule definition. When a schedule is created, the attributes are necessary. Titles are then added or removed separately.



Schedules can only be modified when they are in the *New* state. Once a schedule is *Approved*, the schedule cannot be modified unless its status has changed.

View Schedules by Month

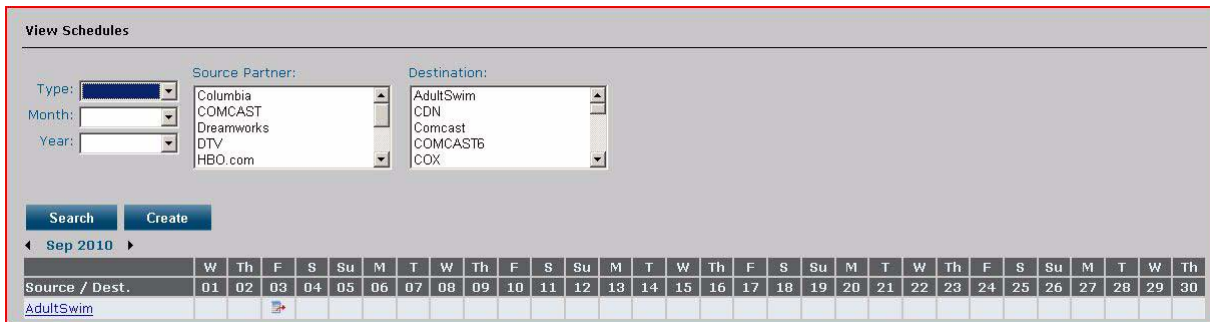
1. To create or edit schedules, select the **Schedules** tab. The screen displays the following:

Figure 9.19: View Schedules



2. Click the [View all for this month](#) link. The screen displays the following:

Figure 9.20: View Schedules for this month



To search for schedules for a different month, use the right and left arrows to select the month.

Viewing a Schedule Timeline

To view a schedule timeline for all partners:

1. From the **Partners** menu, select **Schedule**. The schedules listing displays:

Figure 9.21: Schedule Timeline





The screenshot shows the 'View Schedules' interface. At the top, there are three filter sections: 'Type' with a dropdown menu, 'Source Partner' with a list box containing 'Columbia', 'COMCAST', 'Dreamworks', 'DTV', and 'HBO.com', and 'Destination' with a list box containing 'AdultSwim', 'CDN', 'Comcast', 'COMCAST6', and 'COX'. Below these filters are 'Search' and 'Create' buttons. A navigation bar shows 'Sep 2010' with left and right arrows. The main area is a calendar grid for September 2010, with days of the week as column headers and dates 01 through 30 as row headers. The grid contains several rows of schedule data, each with a source/destination link (e.g., 'AdultSwim', 'CDN', 'Funimation', 'Telekon') and a small icon in the date cells. The icons represent different schedule types and statuses as detailed in the text.

The View Schedules page provides a calendar timeline of schedules listed by associated service or partner. The current month is displayed first by default.

2. To navigate through the calendar year, click the arrows below the **Search** button or select the *Month* and *Year* from the drop-down lists.
3. To filter the display, select the *Type* of schedule (Planner or Pitch) or select one or more entities in the *Source Partner* or *Distribution* boxes.

Pitch and Planner Icons

Icons are used to represent the different schedule type and status:

-  – Represents a pitch schedule. The arrow is pointing out of the icon.
-  – Represents a planner schedule. The arrow is pointing into the icon, indicating that the title is being received.
-  – If a user sets up several content processing milestones, including the final distribution, and the milestones are not achieved in a timely manner, this icon displays.
-  – Represents a planner with one or more titles that have not received content by the expected date. The threshold can be configured as to when a user is alerted, for example, X days before the planner date. The user can then investigate the status of the missing assets.

Creating Schedules

Schedules can be created by triggering a job for a partner or service. Schedules can also be created manually. Schedule creation is simply a matter of defining a source, a destination, and a pitch date.

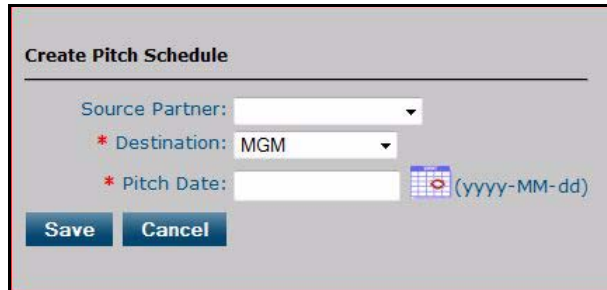


Within CMS, schedule creation is only related to pitch schedule types. Planner schedules are received from source partners.

To create a schedule:

1. From the **Partners** menu, select **Schedule**. The *View Schedules* screen displays. Click **Create**.

Figure 9.22: Create Schedule



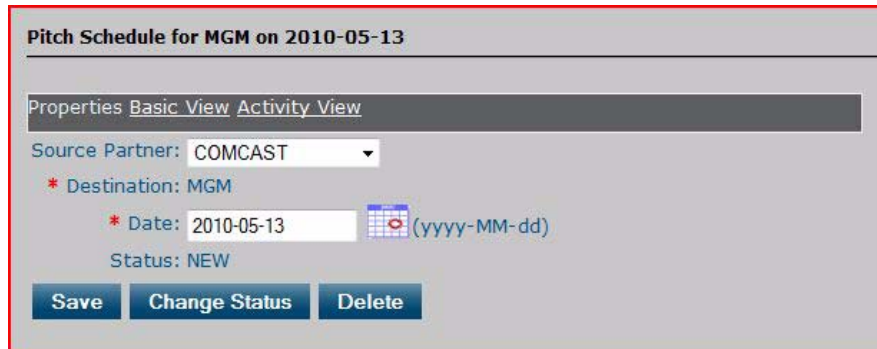
The screenshot shows a web form titled "Create Pitch Schedule". It contains three input fields: "Source Partner:" with a dropdown arrow, "* Destination:" with a dropdown menu showing "MGM", and "* Pitch Date:" with a date picker icon and the text "(yyyy-MM-dd)". At the bottom are two buttons: "Save" and "Cancel".



Only one pitch schedule for a given partner on a given date can be created.

2. Optionally, specify the source partner that provides the content. The only options listed are partners specified as a source type. This is for the aggregators who receive content from providers, so the aggregator can specify the source partner for the content in order to distribute the content to their distribution partner.
3. Select the *Destination*. This can be a partner or a service.
4. Select the *Pitch Date*.
5. Click **Save**. The created schedule's Properties page is displayed.

Figure 9.23: New Schedule's Properties



The screenshot shows a web page titled "Pitch Schedule for MGM on 2010-05-13". It has tabs for "Properties", "Basic View", and "Activity View". The "Properties" tab is active. It displays the following information: "Source Partner:" with a dropdown menu showing "COMCAST", "* Destination:" with a dropdown menu showing "MGM", and "* Date:" with a date picker icon and the text "(yyyy-MM-dd)" showing "2010-05-13". Below this, it says "Status: NEW". At the bottom are three buttons: "Save", "Change Status", and "Delete".

Viewing a Single Schedule

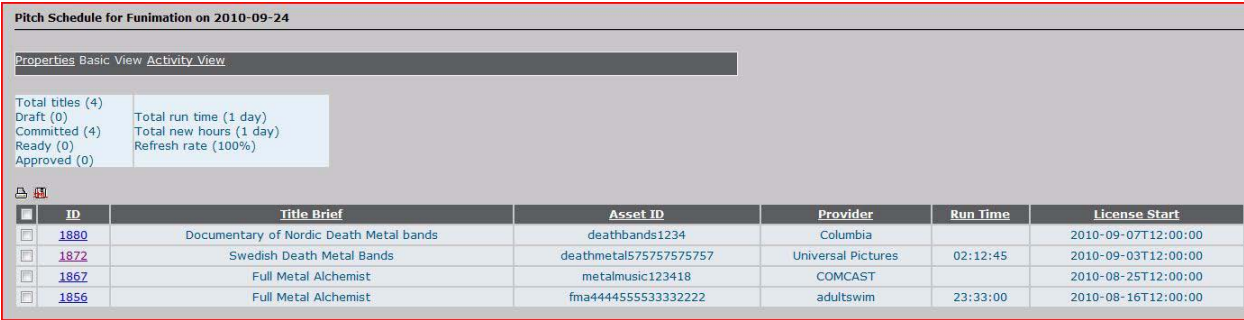
Once the schedule has been created, titles can be added and their progress monitored.



Although WatchPoint supports management of both incoming (planner) and outgoing (pitch) schedules, the functions are applied at different times depending on the schedule type.

To view a schedule for a single partner, click an icon from the calendar on the *View Schedules* page shown in Figure 9.31. The screen displays the following:

Figure 9.24: Pitch Schedule Basic View



Three views are available for a schedule: Basic View, which is the default, Properties, and Activity View. These are displayed in an additional submenu.

Figure 9.25: Schedule View Options



Each view identifies the currently viewed schedule by provider and date. A description of each view follows:

- Basic View – Displays current associated titles and provides options to add and remove titles.
- Properties View – Allows you to edit the schedule attributes and status.
- Activity View – Provides insight into the title activity, with options to add and remove titles.

Basic View

When the schedule is selected, the **Basic View** is displayed.

A summary of the title data is displayed in the upper table. This includes the total number of titles assigned, how many titles have a status of *Draft*, *Committed* or *Ready*, how many are *Approved*, the *Total run time* of the assets in hours, minutes, and seconds, how much of that run time is new content (*Total new Hours*), and the percentage of new content contained within this pitch (*Refresh Rate*).

The titles are listed in blue. For a pitch schedule, the assigned titles have a status of **READY**. For a planner, this means the content has arrived.

Icons with a red arrow indicate that the schedule either requires attention or did not pitch successfully. Click the icon to view the schedule.

Figure 9.26: Pitch Schedule with Issue

Pitch Schedule for BBC on 2010-05-20

Properties Basic View Activity View

Total titles (1)
Draft (0)
Committed (1)
Ready (0)
Approved (0)

Total run time (00:00:00)
Total new hours (00:00:00)
Refresh rate (0%)

ID	Title Brief	Asset ID	Provider	Run Time	License Start	License End
2010	Spongebob works at the Krusty Krab	Jeff0009	Nickelodeon		2010-05-21T12:00:00	2010-07-16T12:00:00

Add Titles Remove Titles

Titles listed in red indicate there is a problem.

Depending on the fields displayed, links are provided to view the specific element within the system. For example, the [ID](#) link provides a link to the Title Details page.

Activity View

To view activity, select **Activity View** from the Schedules page menu.

Figure 9.27: Activity View

Pitch Schedule for BBC on 2010-05-24

Properties Basic View Activity View

Total titles (2)
Draft (0)
Committed (0)
Ready (2)
Approved (0)

Total run time (01:28:08)
Total new hours (01:28:08)
Refresh rate (63%)

Print

Export to XML

ID	Title Brief	Metadata Received	Movie Received	Planner	Encoding Complete	Package Created	Pitch Scheduled	Distributed	Work Order
2243	The Lake House	OK	OK						view
2239	Inside Edition	OK	OK						view

Add Titles Remove Titles

Displayed fields are configurable based on specifications and selected activities. Values can be linked depending on the configuration and available information. For example, the sample reflects that metadata and movie assets have been received for the titles in this pitch schedule and that the titles did not belong to a planner.



Use the font colors and available links to troubleshoot any issues.

If there are errors, the Titles will be in red font as shown below:

Figure 9.28: Activity View with errors

Pitch Schedule for BBC on 2010-09-22

Properties Basic View Activity View

Total titles (4)
 Draft (0)
 Committed (4)
 Ready (0)
 Approved (0)

Total run time (00:22:32)
 Total new hours (00:22:32)
 Refresh rate (100%)

ID	Title Brief	Metadata Received	Movie Received	Planner	Encoding Complete	Package Created	Pitch Scheduled	Distributed	Work Orders
10	The Spongebob SquarePants Movie								
9	Death Metal Bands								
8	VH1 Metal Mania!								
7	Full Metal Alchemist Brotherhood								

Add Titles Remove Titles

Properties View

To view properties, select **Properties** from the Schedules page menu.

Figure 9.29: Schedule Properties

Pitch Schedule for Funimation on 2010-09-24

Properties Basic View Activity View

Source Partner:

* Destination: Funimation

* Date: (yyyy-MM-dd)

Status: APPROVED

Change Status Delete

Schedule properties include *Source Partner*, *Destination*, *Date*, and *Status*.

Modifying a Schedule

The properties can be modified on the Properties page. The schedule can be deleted and the status can be changed here.

To make property changes:

1. From the Properties page, select one or more fields.
2. Enter changes.
3. Click **Save**.
4. Click **Change Status** to toggle the current value. If the status is changed to APPROVED, further changes cannot be made. The **Update** button is removed from the page and the title management options are no longer displayed on the **Basic View**.

Figure 9.30: Approved Schedule Properties

Pitch Schedule for DISH on 2010-05-21

Properties Basic View Activity View

Source Partner: MOVIEPLEX

* Destination: DISH

* Date: 2010-05-21 (yyyy-MM-dd)

Status: APPROVED

Change StatusDelete

Title changes cannot be made in the Activity View.

Figure 9.31: Approved Schedule Activity View

Pitch Schedule for MGM on 2010-05-13

Properties Basic View Activity View

Total titles (2)
Draft (0)
Committed (0)
Ready (2)
Approved (0)

Total run time (10:00:19)
Total new hours (10:00:19)
Refresh rate (100%)

ID	Title Brief	Metadata Received	Movie Received	Planner	Encoding Complete	Package Created	Pitch Scheduled	Distributed	Work Orders
1007	HAHAHAHA	OK	OK						view
994	automation_The Counterfeiters	OK	OK		OK	OK			view



Only APPROVED schedules are processed.

If further changes are needed and the schedule has been APPROVED, click the **Change Status** button to revert the schedule back to NEW.

Adding/Removing Titles

To add or remove a title:

- 1. Select a schedule icon from the timeline. The Basic View is displayed.



If the Add Titles button is not seen, the schedule has been marked as Approved. Go to the Properties view and change the status, then return to the Activity or the Basic View.

Figure 9.32: Add Titles to New Schedule



If the schedule has just been created, no titles appear because none have been selected. Titles that have been assigned are listed.

2. Click **Add Titles**. The *Search* screen displays. [See "Basic Search Options" on page 34.](#) You can select a saved search from the drop-down menu, make a Quick Search, or select the default *Show All*.
3. To customize your search click **Advanced**. [See "Advanced Search Options" on page 36.](#)



Only titles registered with CMS can be scheduled.

4. After making your selection, click **Search**. The search results display as shown below.

Figure 9.33: Choosing Titles from Search Results

Search Results

Select Titles

	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	129	C		It's a Black President, Huey Freeman	boondocks1231231		2010-09-20 00:00	2011-05-26 00:00
<input type="checkbox"/>	126	C		Scorpions - the first German Metal band	CMPA0401285096605517	10		
<input type="checkbox"/>	125	C		Ichigo Becomes a Hollow!	ich123412341234	6	2010-09-21 00:00	2011-02-25 00:00
<input type="checkbox"/>	124	C		AC/DC Live in London	ACDC123412341234	5	2010-09-21 00:00	2011-04-30 00:00
<input type="checkbox"/>	118	C		Full Metal Alchemist Movie - Conqueror of Shamballa (Full English)	CMPA0401285093689335			
<input type="checkbox"/>	112	C		How to Fix your Car	CMPA0401285093125968		2009-08-12 00:00	2011-07-30 00:00

Title status does not affect its eligibility to be scheduled. How the titles were created in CMS is also not a factor. The license window end date cannot be on or before the pitch date.

5. Select the titles, and then select **Add to existing pitch schedule** from the drop-down list. Click **Go**.

Figure 9.34: Adding Titles to Basic View

Pitch Schedule for Telekon on 2010-09-15

Properties Basic View Activity View

Total titles (4)
Draft (0)
Committed (4)
Ready (0)
Approved (0)

Total run time (1 day)
Total new hours (1 day)
Refresh rate (99%)

ID	Title Brief	Asset ID	Provider	Run Time	License Start	License End
1880	Documentary of Nordic Death Metal bands	deathbands1234	Columbia		2010-09-07T12:00:00	2010-11-27T12:00:00
1872	Swedish Death Metal Bands	deathmetal5757575757	Universal Pictures	02:12:45	2010-09-03T12:00:00	2011-07-22T12:00:00
1867	Full Metal Alchemist	metalmusic123418	COMCAST		2010-08-25T12:00:00	2011-04-20T12:00:00
1856	Full Metal Alchemist	fma4444555533332222	adultswim	23:33:00	2010-08-16T12:00:00	2011-06-09T12:00:00



Add Titles Remove Titles

WatchPoint checks the license end date for each title that is selected. If one or more titles has an end date on or before the pitch date, an invalid license error is displayed as shown below:

Figure 9.35: Invalid License Message

Search Results

Errors(1)
Failed to add title(s): License end date for selected title(s) should be after the schedule date.

ID	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
29	C	NO IMAGE		CMPA0391285092604660			
28	C		Jellyfishing	CMPA0391285092590251	4		
27	C		Jellyfishing	1111spongebob333	4		

When the titles are added successfully, the schedule's *Basic* view displays the added titles.

- To remove a title from a schedule or planner, click **Remove Titles** from either the Basic or Activity view.

Viewing Schedules by Partner

Schedule viewing and management can also be accessed through the associated partner or service.

- To view schedules, select **Partners - > View**. The *View Partners* screen displays.
- Select the partner from the *Name* field whose schedule you want to view. Click the **Schedules** tab from the *Modify Partner* menu. The *Schedules for Partner* screen shown on [page 162](#) is displayed.

Up to five upcoming pitch schedules are displayed for each distribution partner and up to five upcoming planners are displayed for each source partner.

- To display the complete list for a given partner, click [View all for this month](#).

Figure 9.36: Schedules for Partner Timeline

View Schedules

Type: Source Partner: Destination:

Month: Year:

Search Create

May 2010

Source / Dest.	S	Su	M	T	W	Th	F	S	Su	M	T	W	Th	F	S	Su	M	T	W	Th	F	S	Su	M	T	W	Th	F	S	Su	M	T	W	Th	F	S	Su	M
COX	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							

The *View Schedules* page is filtered by the partner or service. This is the same view displayed by entering the service or partner selection and clicking **Search**.

Viewing Jobs

A list of jobs assigned to a partner can be viewed.

- To view a job, click a partner [Name](#) in the *View Partners* page to access its management area.
- Click **Jobs**.

The *Job Schedule Rule* options change. This job type can be run once or on a recurring basis based on the partner's preferred pitch date.

Figure 9.37: View Partner Jobs

General Services Users Schedules **Jobs**

Jobs for Partner: CDN

Name	Id	Template/Rule set Name	Job Schedule Rule
GenerateSnap	30	Generate SnapShot Image	1 day(s) before Schedule - Date at 12:00 am

Create Delete

Each job is displayed with its *Name*, *ID*, *Template/Rule set Name*, and *Job Schedule Rule*. The ID is assigned by the system when the job is saved and is a unique integer that cannot be changed or reused.

- Optionally, delete jobs from this page. The job cannot be removed if it is currently being executed.
- Click the job's [Name](#) to display its definition.

Creating Jobs

Jobs are created for a service or partner. There is no limit to how many jobs a partner or service can have. The process used to create a job for a partner is the same as creating one for a service. For the purposes of this section, jobs for partners are created.

The type of partner chosen determines the jobs that are needed. Source partners submit planning scenarios and need jobs related to title and asset management. Distribution partners need jobs related to pitch schedules and asset delivery. For source partners, content processing based on planners is one example of how jobs can be used. For distribution partners, a job can verify that the titles to be pitched are ready for distribution.

Job parameters are dependent on available work order templates and are defined by template variables. The variables eligible to be used as a job parameter are those designated as required in the corresponding template. Jobs can be created at a source/distribution partner or service level. Jobs can also be created at the self partner level. This enables job actions and values to be partner specific. For example, one partner might want encoding to be enabled while another partner does not. To perform custom processing for a partner or for a given schedule, jobs are created for that partner and job parameter values are specified so that job creation applies to that partner only.

To perform tasks at a system level irrespective of schedules or partners, jobs are created at the self partner level, which applies the process to all titles in the system based on the job scheduling rule. Thus, one template can result in different executions. Scheduling work orders can be part of a job definition, enabling the module to start work orders automatically.

The parameters used are determined by the template. When defining the job, users can only specify parameter values that are required by the chosen template. Parameters can be both constant values and parameter reference values.

Parameter Reference Values

The following are supported reference values:

- *Metadata Reference* – Indicates which metadata values of a title will be supplied to the work order. The available metadata is limited to the metadata supported in Planning titles and is specification and deployment dependent.
- *Schedule Property Reference* – Refers to a property of the schedule to which the job is applied. As presently implemented, the supported property is the pitch date and ID for the schedule to which the job is applied.
- *Planner Property Reference* – Refers to a property of the planner to which the job is applied. As presently implemented, the supported property is the planner date and ID.
- *Partner Property Reference* – Refers to a property of the partner to which the job is applied. Available properties are contextId, emailId, name and providerID.
- *Service Property Reference* – Refers to a property of the service to which the job is applied. Available properties are contextId, emailId, name and providerID.
- *Title Property Reference* – Refers to all non-metadata property values of the title.



General Property Reference – Refers to system level parameters. The only parameter that is currently available is the job execution date.

Other Variables

The job can have other variables to be completed during processing. If these are not constant, not part of the metadata specification, or not part of the title metadata, the template queries the appropriate resource to obtain the information to run the work orders. These variables are not required in the template, so the user does not need to enter these values during job management.

Property Selections

Available property references change based on the various associations. The system does not display options or choices that are invalid based on whether a service or partner is chosen and if the job is specific to titles matching a certain metadata condition. When a partner is selected, the type of partner also influences the type of properties available.

Creating a New Job

1. To create a new job, click the **Jobs** tab. The screen displays the following:

Figure 9.38: Create Job

Name	Id	Template/Ruleset Name	Job Schedule Rule
<input type="checkbox"/> GenerateSnap	30	Generate SnapShot Image	1 day(s) before Schedule - Date at 12:00 am

Jobs for Partner: CDN

Create Delete

2. Click **Create**. The screen displays the following:

Figure 9.39: Create Job

Create job for PARTNER : COMCAST

* Job Name:

Job Schedule Information

* Associate with Titles: ☒ Yes ☐ No

* Job Schedule Rule:

Start Date:

End Date:

☒ day(s) before at 12:00 am

☒ Execute Rule Set

☐ Execute Work Order

Priority:

* Template:

* Denotes Required Field
 Indicates parameter reference

3. Enter the *Job Name* to identify this set of parameters. Next you must enter the Job Schedule rules.

In the *Job Schedule Information* area, two parameters are displayed; jobs set up with title association enabled and without title association enabled.

The first type determines if the work orders should be created for every matching title given the condition—metadata or schedule based in a schedule. Selecting this parameter causes a new work order to be triggered with each matching asset associated with this partner. For example, *Associate with Titles* is enabled. Three days after a planner date is reached (and therefore three days after the assets have arrived), the system attempts to map physical assets to each title included. This job needs to be initiated based on a planner date and not on a recurring time frame because a planner specifies when titles are expected to arrive.

Jobs that are set up without title association enabled are the types of work orders that do not operate on a specific title. For example, a process can be scheduled that will clean up various temporary folders every two days at midnight.

Both of these scenarios are illustrated in the following sections.

Enabling Associate with Titles

4. To enable the associate with titles feature, select **Yes** to activate title association as shown in the following screen:

Figure 9.40: Associate with Title Scheduling

Job Schedule Information

* Associate with Titles: ☒ Yes ☐ No

* Job Schedule Rule:

Start Date:

End Date:

☒ day(s) before

Jobs for source or distribution partners that associate assets with titles are based around schedules, whether it is the planning scenario submitted by the source partner or the pitch schedule of assets that will be distributed. Therefore, this type of schedule rule is based on schedule activity.

The *Start Date* and *End Date* set the window when this job can be run.

5. If this job is to be run indefinitely, enter no date in the *End Date* field. Entering no value in the *End Date* field causes the job to run in perpetuity. To enter a date, click the icon and select a date from the calendar.

Figure 9.41: Selecting a Date Range

< Jun 2010 > : tc_37510

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

End Date:

6. The first text box is for the number of days to be offset from the planner or schedule date. Enter the number of days.
7. Select *before* or *after* to define the offset relationship.
8. From the drop-down list, select whether this is based on the planner or schedule and the field the date is based upon. Planner schedules serve as notifications of the assets that will be sent at the scheduled time.

Figure 9.42: Select Planner or Schedule

☒ 1 day(s) after \$Planner.Date at 12:00 am

☒ Schedule
☐ Planner
☐ Date

[Click here to change time](#)

For this example, the job is initiated one day after the date in the planner schedule. For each title in the associated planner, a new work order is initiated by this job.



For Licensed Based Distribution, select the number of days before or after the License Window Start from the drop-down menu.

Jobs created for the *Self* partner that have *Associate with Titles* enabled are centered around a title metadata field.

9. The default time is 12:00 am. To change this time, click on the clock icon and select a new time.
10. Select the Execute Rule Set or Execute Work Order radio button.
 - If you select Execute Work Order, select the *Priority* from the drop-down menu.
 - Select the *Template* from the drop-down menu
11. Click **Save**. A confirmation message displays.

Disabling Associate with Titles

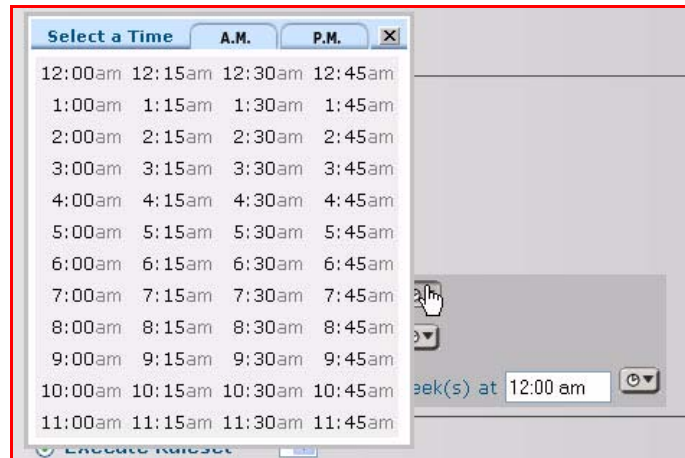
To disable the associate with titles feature:

1. Unless a job is related to title management, select *No* for this option.

Figure 9.43: Do Not Associate with Titles Scheduling

2. Enter the information as defined by the selected partner. The job can run on a specific day or after a specified number of days have passed. The default pitch time is midnight, but this can be changed by selecting the icon.

Figure 9.44: Select Time



3. Enter the job's *Start Date* and *End Date*. To run the job in perpetuity, do not enter an *End Date*.

Execute a Rule Set

A job can either execute a rule set or work order.

To execute a rule set for the *Scheduled* check box you selected, select the rule set name from the drop-down list.



Validation and targeting rules cannot be scheduled.

Scheduling Rules

During job creation or edit, you can define a work order schedule for each job. Available scheduling rules are described in the following table.

Table 9.1: Work Order Scheduling Rules

Scheduling Rule	Description
[n] days before/after [title metadata] at [time]	The schedule is based on a specific day relative to the metadata value of a title. For example, this could be 5 days before the license window start date at 3:00 AM. This rule is applicable when creating jobs for the SELF partner.
[n] days before/after [planner/schedule date] at [time]	The schedule is based on a specific day relative to the date specified in the planner or pitch schedule. For example, this could be 2 days after the planner date at 3:00 PM. This rule is applicable when creating jobs for SOURCE or DISTRIBUTION partners.

Table 9.1: Work Order Scheduling Rules

Scheduling Rule	Description
On [day of week] every [n] weeks at [time]	This initiates work orders based on a recurring schedule. For example, this could be on Monday every 2 weeks at 3:00 AM.
Every [n] days at [time]	This schedules recurring work orders based on a number of days between executions. For example, this could be every 3 days at 3:00 AM.
On [specified date] at [time]	This rule is used for one-time scheduling.



It is the user's responsibility to specify the right job schedule rule based on the job's associated template.

When scheduling rules are applied, work orders are automatically started according to the time structure specified.



If jobs are associated with a schedule, the job module only starts work orders for "approved" schedules.

Work order scheduling rules only apply to titles included in the matching pitch schedule or planner associated with the job's partner or service. If a scheduled work order is applicable to all titles, the job is associated with the self partner.

To schedule a rule:

1. Select **Partner -> View**. The *View Partners* page displays.
2. From the View Partners page, click the [Name](#) of the partner you want to manage. In this example, a source partner is selected. The *Modify Partner* page displays.
3. Select the **Jobs** tab. The Jobs page displays any jobs that have already been created.
4. Select **Create** to create a new entry. This procedure is described in ["Creating a New Job" on page 173](#).

Execute Work Order

If a rule set is not triggered, a work order is initiated. A priority and template must be selected.

1. To execute a work order, select a priority from the drop-down list as shown in the following screen.

Figure 9.45: Select a Job Priority

☐ Execute Rule Set
☒ Execute Work Order
 Priority: NORMAL
 *Template:
 Save Cancel
 * Denotes Required Field
 Indicates parameter reference

There are five levels of priority. Jobs with a higher priority are moved ahead of jobs with a lower priority within a queue. Job templates are based on a series of tasks and processes. The priority stays with the job throughout its execution. The default *Priority* is NORMAL.

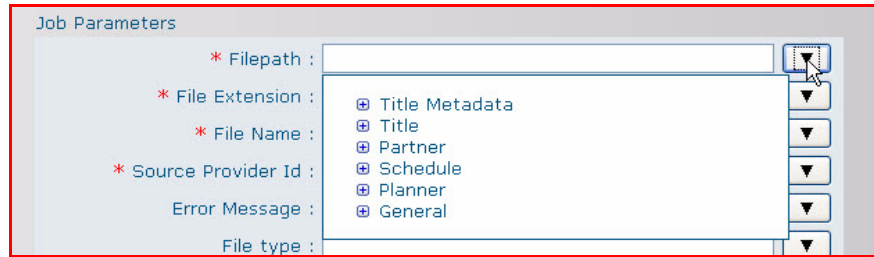
2. Select the template. The template determines what happens during the work order execution. When selected, the associated parameters for the template are displayed.

Figure 9.46: Select Job Template

Create job for PARTNER : CartoonNetwork
 * Job Name: FullMetalAlchemist
Job Schedule Information
 * Associate with Titles: Yes No
 * Job Schedule Rule:
 Start Date: 2010-05-31
 End Date: 2010-06-12
 3 day(s) before \$Schedule.Date at 12:00 am
☐ Execute Rule Set
☒ Execute Work Order
 Priority: NORMAL
 *Template: Target Title
Job Parameters
 * Master Title ID :
 * Site IDs :
 Site Title ID :
 Content Processing Scheduled? :
 Source Component Name :
 Source Entity Name :
 Source Id :
 Site Id :
 Has More Sites? :
 Save Cancel
 * Denotes Required Field
 Indicates parameter reference

3. To view the available references for a parameter, select the drop-down arrow. Required parameters are indicated by a red asterisk.

Figure 9.47: Select Parameter Reference



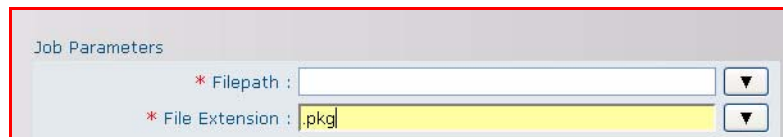
4. Enter the reference. It will be filled in by the value found in the matching title's selected field.



The system does not limit references that are shown to what might be appropriate for that parameter. It is up to you to make a logical choice.

5. Optionally, map a reference or enter a constant value into the text box.

Figure 9.48: Assigning Constant Values for Job Parameters



Only the parameters marked as required must be completed during initial creation.

Parameters that are not required are used by the template during job execution. Some parameters are calculated and used as processing input, and other variables might be populated during execution by a node. These values can be changed by selecting a reference or entering a set value within the job definition. When doing this, it is important to understand the template and how the variables are being used.



Whether the user-specified value is used depends on how the template is designed. If the template is using the variable value to perform a task, the user input is used. However, if the template is not reading the variable value but is instead populating the field, the value is overwritten.

6. Click **Save**. The job is added to the list of jobs created for that partner. A confirmation message displays.

Figure 9.49: Job Created Confirmation



When the *Start Date* has been met, the system initiates a job instance based on the schedule rule and system conditions.

Partner Content Class

The Content Class tab is available for Source and Self partners only.

1. To display the Content Class for a partner, select **Partners-> View**. The *View Partners* screen shown in Figure 9-1 displays.
2. Click the partner name from the *View Partners* page. The *Modify Partner* screen shown in Figure 9-5 displays.
3. Click on the **Content Class** tab. The screen displays the following:

Figure 9.50: Partner Content Class



ID	Name	Description	Special Usage
1	Default	Default content class	None

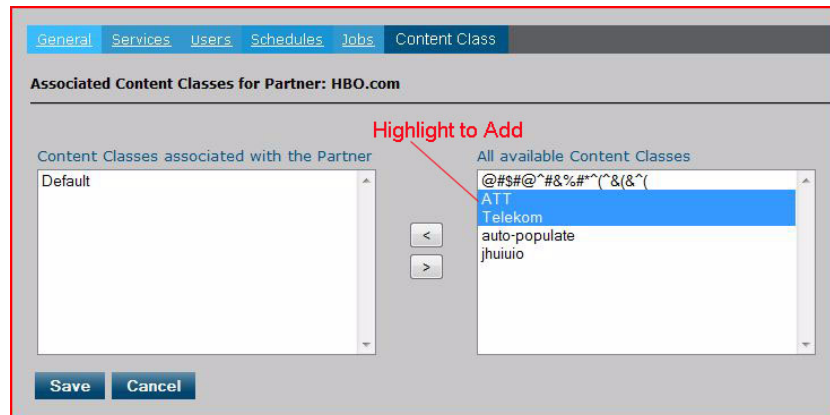
Edit

4. New partners will have the
5. Default content classes associated as shown in the figure above.

Adding Content Class Associations

6. Click **Edit** to modify the content class list. The screen displays the following:

Figure 9.51: Highlight Content Classes to Add



Associated Content Classes for Partner: HBO.com

Content Classes associated with the Partner

Default

All available Content Classes

@#\$\$@^#&%#*^(&(^('

ATT

Telekom

auto-populate

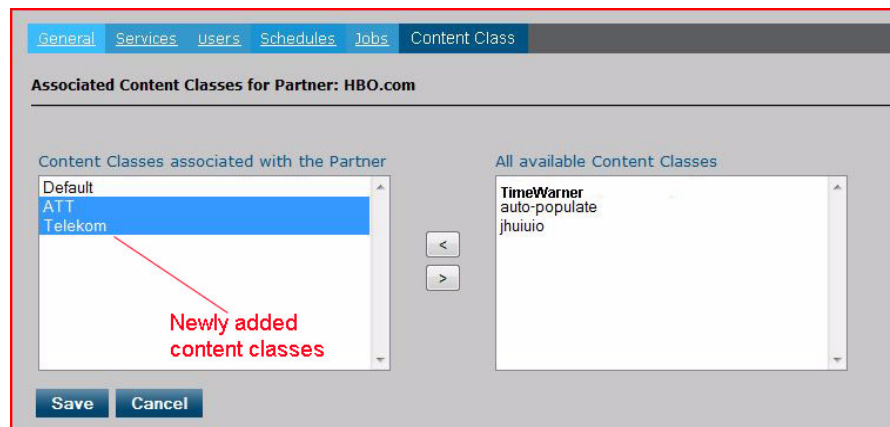
jhuiuo

Highlight to Add

Save Cancel

7. To add content classes, highlight the desired Content Classes from the *All Available Content Classes* location and click the < arrow key. The screen displays the following:

Figure 9.52: Added Content Classes



8. Click **Save** to save your changes. The content classes are added to the partner as shown below:

Figure 9.53: Partner Content Classes Added

ID	Name	Description	Special Usage	Metadata
1	Default	Default content class	None	Metadata
21	Telekom	Austria	None	Metadata
61	ATT	Content for AT&T	None	Metadata

Edit

Deleting Content Class Associations

9. To delete content classes, highlight the desired Content Classes from the *Content Classes associated with Partner* location and click the > arrow key. The selected content class will be moved to the *All Available Content Classes* location.
10. Click **Save**. The content class will be removed from the listing.

Editing Partner Content Class Metadata

You can also edit the metadata for a content class from the *View Partners* screen.

1. Select the Source or Self partner that you wish to edit.
2. Click on the **Content Class** tab. The Partner Content Class screen displays.
3. Click on the metadata link. The screen displays the following:

Figure 9.54: Edit Partner Content Class Metadata

4. Edit the metadata fields. Click **Save**. The confirmation screen displays:

Figure 9.55: Edit Partner Content Class Metadata

5. Click **Cancel** to return to the previous screen.

Content Class Metadata Icons

Three icons can appear on the Edit Partner Content Metadata screen. The Locked and Auto-populate icons also appear on the Title Content Class Metadata screen. [See "Locked Fields" on page 69](#) for details.

The Global icon is unique to the Partners Content Class. This icon indicates that the field's value is at the global content class level. The screen below shows that this value has been set to SVOD:

Figure 9.56: Content Class Metadata Global Icon

Edit Metadata for Partner 'HBO.com' and Content Class 'Default'

Package

- Title
- Movie
- Preview
- Poster
- Box Cover
- Trick File
- Barker
- Encrypted

Asset Name

Asset Class

Package Asset ID

Creation Date

Description

Product

Version Major

Version Minor

Content Class Value: VOD

When fields are locked for a Content Class, this icon will display.

SITE MANAGER

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System Overview

Tracking Site:

A tracking site license is required for every site to which metadata/content is not being directly distributed but status is being tracked centrally.

Site Management enables targeting and distribution to multiple locations in different formats. It allows for the combination of multiple sites into one logical site. For example, you may have several distribution sites each going to several more tracking sites. These tracking sites may then go to a combination of STBs, mobile devices or web portals. These sites can be grouped together according to a set of rules. For example, all West Coast tracking sites can be grouped into one *logical distribution site*, or all HBO feeds can be grouped into another logical site, depending on the rules specified in CMS. These rules will be described in further detail in the *Rules* section.

Some of the features of Site Manager include:

- Keeping track of where content and metadata have been distributed
- Viewing the sites and locations of titles
- Viewing the statuses of distributed content by site
- Support for site-specific metadata
- Support for site-specific rules for normalization, validation and content processing. See [“Creating Targeting Rules” on page 91](#) for details.
- The ability to manually update metadata for a title for a particular site and view any changes made to that metadata. See [“Editing Metadata” on page 51](#) for details.
- Propagating central metadata updates to downstream sites

Distribution Site:

Used to represent different platforms or other distribution locations. A site can only receive one package for a given title.



If multiple packages are necessary to support multiple file formats, multiple Distribution sites would be required.

Logical Site:

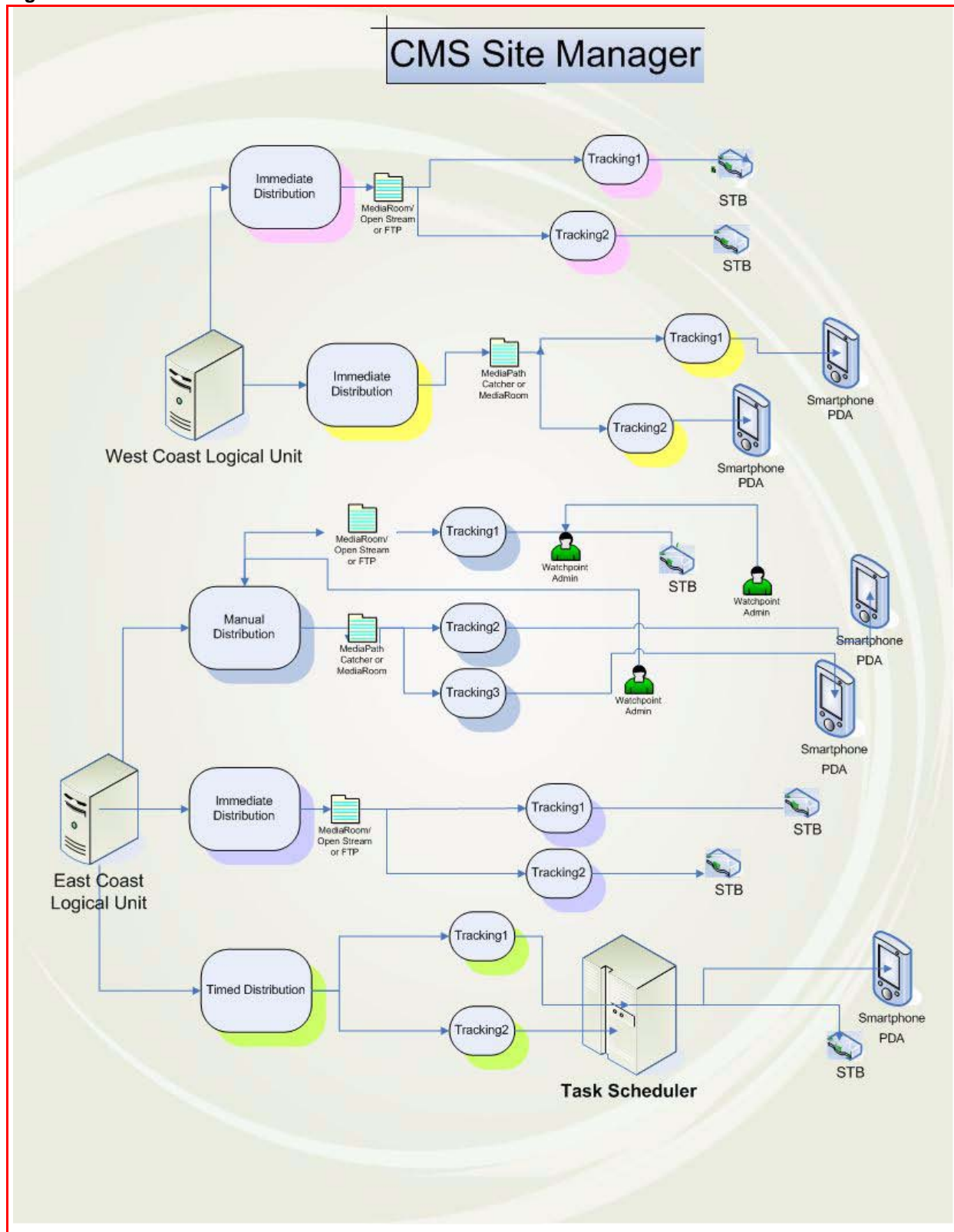
A logical site is a grouping of tracking or distribution sites. Support for logical sites enables creation of a site hierarchy and also makes it easier to apply rules to multiple child nodes.

Distribution Types

Distributions can be timed, manual, or immediate. Immediate distribution is done as soon as the title has been targeted. Manual distribution requires human intervention, such as a Watchpoint Administrator, or anyone who has Site Distribution permission, at the site. An operator manually selects the title and then distributes the targeted title. A timed distribution can be set up to distribute the targeted title at a specified time.

The following diagram shows the distribution types for two logical units, West Coast and East Coast. In this example, when the tracking site goes to an *STB*, Media Room 3.2 is used, whereas if it goes to a Mobile device or *PDA*, Media Room 2.0 is used. CMS constantly polls for data posted by the System Center Operations Manager (SCOM) server and parses the status information. The CMS SCOM plugin is responsible for updating the status based on the information obtained.

Figure 10.1: Distribution Flowchart



Other Supported Site Types

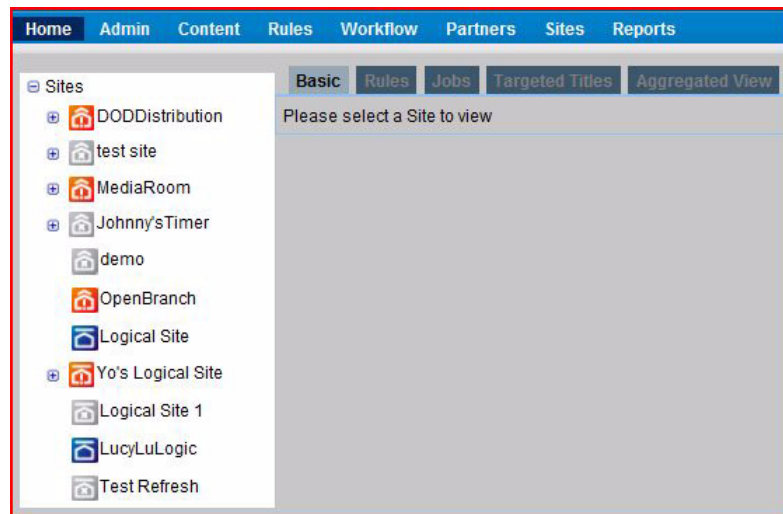
Figure 10-1 shows a sample configuration of how sites might be set up, however, sites are defined as any platform or location that receives content. This could be a publishing system, a web portal such as Youtube, an IPTV system, or an FTP folder. In these cases, the tracking site might use MediaRoom sites or MediaPath Catcher locations to track the status, and the distribution site may employ Openstream or MediaPath Manager.

Viewing Sites

To display a list of active distribution sites:

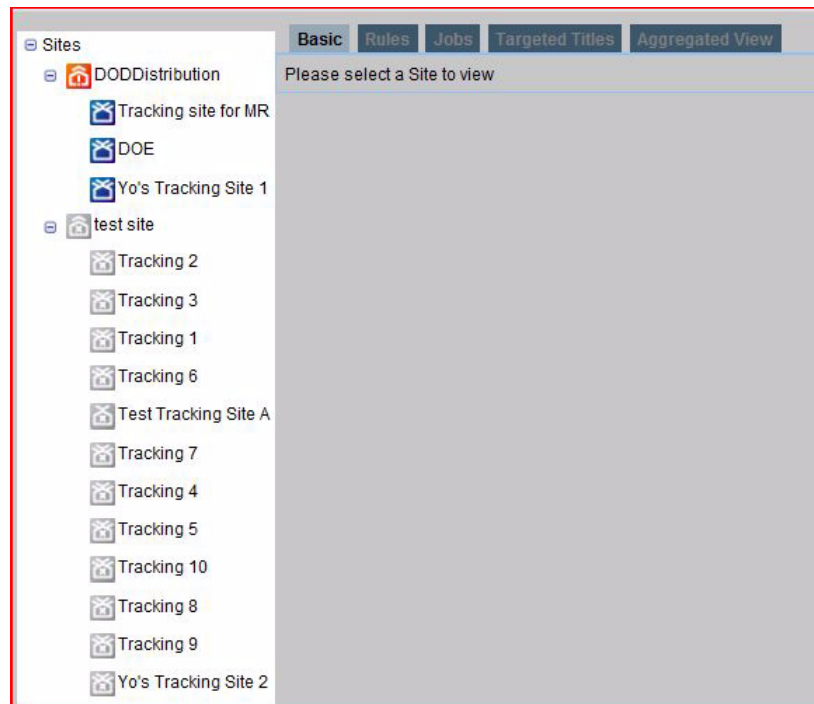
1. From the **Sites** menu, select **View**. The screen displays the following

Figure 10.2: View List of Distribution Sites



2. To navigate the directory, click the plus sign or the folder name in the tree to expand the folder and display its contents.

Figure 10.3: Expanded View of Sites List



The icons displayed next to the site name indicates the type of site. Some examples include tracking, distribution, logical, or shared. These icons are described in [“Site Icons” on page 17](#).

Displaying Site Details

To display site details:

1. Double click on the desired site name from the expanded list. The screen displays the following:

Figure 10.4: Distribution Site Details

The screenshot shows a web application interface for managing distribution sites. The 'Basic' tab is active, displaying the following fields and values:

- Status:
- Name: MediaRoom
- Site Type: Distribution
- External Id: 1
- Description: CableLabs distribution
- File Lookup Keys: (empty list)
- Metadata Format: CableLabsVOD1.1
- Distribution Option: Immediate
- Distribution Configuration: Asset Distribution - FTP
- Context Id: 1
- Schedule Id: 1
- FTP Location: f
- Alert Delay Period: 15 minutes
- Distribution Status Plugin: com.ericsson.title.status.distribution.test.plugin#CONFIG_001
- Asset Status Data File: file1.csv
- Configuration ID: CONFIG_001
- Display Name: Test Plugin
- Polling Interval: 90000
- Deployment Status Plugin: com.ericsson.title.status.deployment.test.plugin#DEPLOYMENT_CONFIG_001
- Asset Status Data Path: deployment_data_1.csv
- Configuration ID: DEPLOYMENT_CONFIG_0
- Display Name: Test Deployment Plugin
- Polling Interval: 90000

Buttons at the bottom: Save, Inactivate, Delete.

2. The following fields are displayed on the screen:

VOD:

Systems which allow users to select and watch/listen to video or audio content on demand

- Status - Icon indicating if the site is activated or de-activated. A green check indicates that it is activated, while a red X indicates that it is de-activated. These icons are further described in ["Site Icons" on page 17](#)
- Name – Unique name given to identify the site.
- Site Type – Can be standard Distribution, Logical distribution or tracking.
- Description – Describes the type of distribution site and what it is used for.
- File Lookup Keys–A list of file types that are supported for the site. When creating a title copy for the site, only the types listed in these fields will be retained. Examples include VOD or Original.
- Metadata Format– The format that the Metadata must conform to, such as CableLabs VOD1.1 or MSTV2.
- Distribution Option– Can be timed, manual or immediate as described in the previous section.
- Distribution Configuration– Displays a list of distribution templates that determine how the content will be distributed. Once the template is selected, it displays the associated resource which is used by the work order based on the configuration.
- Alert Delay Period–
 - For a distribution site, the number of minutes to wait for the distribution status before setting the status to *FAILED*.

-
- For a tracking site, the number of minutes to wait for the deployment status before setting the status to *FAILED*.
 - *Distribution Status Plugin*– The plugin that is used to monitor the distribution status of the site titles. The plugins displayed in the drop down are developed for each customer.
 - *Deployment Status Plugin*– The plugin that is used to monitor the deployment status of the site titles. The plugins displayed in the drop down are developed for each customer. When configured at the distribution site, they monitor the status for the site titles for all child tracking sites.



Site Status icons are described in **[“Site Activation Icons”](#)** on page 18.

3. Click **Save**. The distribution site is added.

To delete the distribution site, click **Delete**.



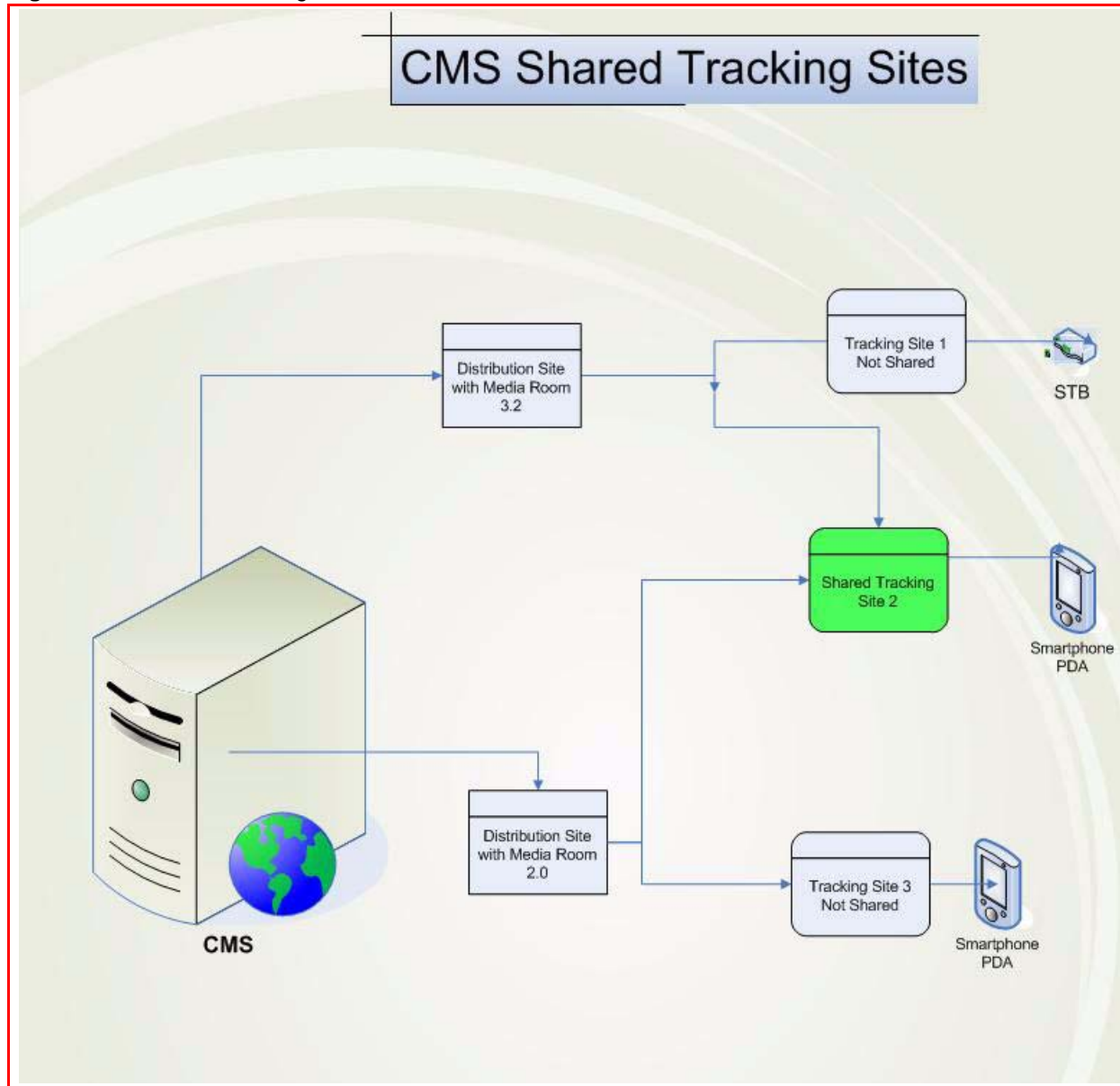
If there was a previously configured status plugin which no longer exists, an indicator (red exclamation icon) is displayed indicating that the status plugin is invalid and the user should change it.

To de-activate the distribution site, click **Inactivate**. This option is described in the next section.

Shared Tracking Sites

Tracking sites can be shared. These are used when CMS is sending more than one type of formatted content to the same downstream. In this case, the tracking site can be shared between two or more distribution sites that are using multiple formats. Figure 10.5 below shows an example of how a tracking site can be shared between two distribution sites, one using MediaRoom 2.0 formatting and one using MediaRoom 3.2.

Figure 10.5: Shared Tracking Sites Flowchart



Activating and De-Activating Sites

Activating and de-activating a Distribution Site performs a recursive action on all of its child tracking sites.

Upon activation of a distribution site, if the distribution option is *Immediate*, all titles with the status of *Ready* will be confirmed for distribution.

If approved by the user, activating a site performs a Synchronization of the titles status.

1. If you wish to activate an inactive Site, click the **Activate** button. The following message displays.

Figure 10.6: Synchronize Status Message

This message is shown because there may be status plugins associated with a site, and monitoring may have stopped while the site was inactive.

2. Click **Yes** to synchronize the status, or **No** to quit. If you select **Yes**, the Status icon changes to *Activated* and the confirmation message displays as shown below.

Figure 10.7: Activated Titles with Site Message

1. If you wish to de-activate a site, click the **Inactivate** button.
 - a. If the site you wish to de-activate is a distribution site with immediate distribution, the following message will display:

Figure 10.8: De-activate Sites Message

- b. Click **Yes** to synchronize the status, or **No** to leave the status unchanged.
2. The Status icon will change to a red X and the screen will display the following confirmation:

Figure 10.9: De-activated Site Message

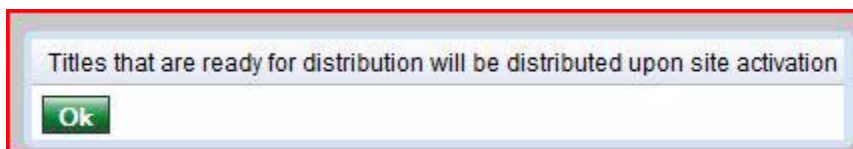
The screenshot shows the 'Basic' tab of the Site Manager configuration page. At the top, a message states 'Site was inactivated successfully' with a red 'X' icon. Below this, the site details are as follows:

- Name:** MediaRoom
- Site Type:** Distribution
- External Id:** 1
- Description:** CableLabs distribution
- File Lookup Keys:** (empty list)
- Metadata Format:** CableLabsVOD1.1
- Distribution Option:** Immediate
- Distribution Configuration:** Asset Distribution - FTP
 - Context Id:** 1
 - Schedule Id:** 1
 - FTP Location:** f
- Alert Delay Period:** 15 minutes
- Distribution Status Plugin:** com.ericsson.title.status.distribution.test.plugin#CONFIG_001
 - Asset Status Data File:** file1.csv
 - Configuration ID:** CONFIG_001
 - Display Name:** Test Plugin
 - Polling Interval:** 90000
- Deployment Status Plugin:** com.ericsson.title.status.deployment.test.plugin#DEPLOYMENT_CONFIG_001
 - Asset Status Data Path:** deployment_data_1.csv
 - Configuration ID:** DEPLOYMENT_CONFIG_001
 - Display Name:** Test Deployment Plugin
 - Polling Interval:** 90000

At the bottom, there are three buttons: **Save**, **Activate**, and **Delete**.

Re-Activating from Immediate Distribution Sites

If you wish to re-activate an immediate distribution site, after repeating the activation steps shown above, the following message will display:

Figure 10.10: Site Manager Menu

Activating a site performs a Synchronization of the titles status if you approve it. Click **Ok**. The Synchronize status message displays. Click **Yes**. The screen will display the confirmation message.

Navigating Site Manager

A menu is always available to allow the user to move from one area to another from any point within the system. The menu allows the access of a particular tool or management feature.

Figure 10.11: Site Manager Menu



The **Basic** tab displays the default view. The other tabs will be described in subsequent sections.

Creating a New Site

To create a new Logical or Distribution Site:

1. Select **Sites ->View**. The list of Logical and Top Level Distribution sites displays.
2. Right click *Sites* from the top of the list. The following pop-up displays:

Figure 10.12: Create New Site Popup



To create a logical site, select *Create Top Level Logical Site*. The screen displays the following:

Figure 10.13: Create New Logical Site

The image shows a form for creating a new logical site. The form has a 'Status' field with a red 'X' icon. Below it are fields for 'Name', 'Site Type' (set to 'Logical'), 'External Id', and 'Description'. A 'Save' button is at the bottom.

3. Fill in the required fields. The *Site Type* field automatically contains *Logical* and is not editable.
4. Enter the *External ID*. This ID is used by the status plugins for Distribution and Tracking sites. The name entered should match the one specified at the physical downstream so that it can match responses coming from the status plugin.
5. Click **Save**. The confirmation will display.
6. Click **Activate** if you wish to activate this site.

To create a distribution site, select *Create Top Level Distribution Site*. The screen displays the following:

Figure 10.14: Create New Distribution Site

The screenshot shows a web form for creating a new distribution site. The form is titled 'Create New Distribution Site' and has five tabs: Basic, Rules, Jobs, Targeted Titles, and Aggregated View. The 'Basic' tab is selected. The form contains the following fields:

- Status: (with a red 'X' icon)
- * Name: (text input)
- Site Type: (dropdown menu, set to 'Distribution')
- * External Id: (text input)
- Description: (text input)
- File Lookup Keys: (dropdown menu, set to 'MOVIE-ORIGINAL')
- * Metadata Format: (dropdown menu)
- * Distribution Option: (dropdown menu, set to 'Immediate')
- * Distribution Configuration: (dropdown menu)
- * Alert Delay Period: (text input) minutes
- * Distribution Status Plugin: (dropdown menu)
- Deployment Status Plugin: (dropdown menu)
- Save: (green button)

1. Fill in the required fields. The *Site Type* field automatically contains *Distribution* and is not editable.
2. Click **Save**. The confirmation will display.
3. Click **Activate** if you wish to activate this site.

Validation Failure Message

If you enter incorrect parameters while creating a site, the screen will display the appropriate message as shown in the screen below:

Figure 10.15: New Distribution Site Validation Failed

The screenshot shows a web form for creating a new distribution site. At the top, there are tabs: Basic, Rules, Jobs, Targeted Titles, and Aggregated View. Below the tabs, a red status bar indicates a validation failure with the message: "Validation Failed: [contextId Parameter Value is required., scheduleId Parameter Value is required., ftpLocation Parameter Value is required.]". A purple arrow points to this message with the label "Failure messages".

The form fields are as follows:

- * Name: DODDistribution
- Site Type: Distribution
- * External Id: redneck
- Description: Military channel
- File Lookup Keys: (empty)
- * Metadata Format: CableLabsVOD1.1
- * Distribution Option: Immediate
- * Distribution Configuration: Asset Distribution - FTP
- * Context Id: (empty)
- * Schedule Id: (empty)
- * FTP Location: (empty)
- * Alert Delay Period: 12 minutes
- Distribution Status Plugin: com.ericsson.title.status.distribution.test.plugin#CONFIG_001
 - Asset Status Data File: file1.csv
 - Configuration ID: CONFIG_001
 - Display Name: Test Plugin
 - Polling Interval: 90000
- Deployment Status Plugin: com.ericsson.title.status.deployment.test.plugin#DEPLOYMENT_CONFIG_001
 - Asset Status Data Path: deployment_data_1.csv
 - Configuration ID: DEPLOYMENT_CONFIG_001
 - Display Name: Test Deployment Plugin
 - Polling Interval: 90000

A green "Save" button is located at the bottom left of the form.

Editing a Distribution Site

To edit distribution site details:

1. Click on the desired site name from the expanded list
2. Enter the following information. Required fields are marked with an asterisk:
 - *Name* – Unique name given to identify the site.
 - *Site Type*– The distribution site type, such as logical or standard.
 - *Description* – Describes the type of distribution site and what it is used for.
 - *File Lookup Keys*– Keys used to lookup the distribution pathway.
 - *Metadata Format*– The format that the Metadata must conform to, such as CableLabs VOD1.1 or MSTV.
 - *Distribution Option*– Can be timed, manual or immediate as described in the previous section.
 - *Distribution Configuration*– Select the content distribution configuration from the drop-down menu. Selections can include *Asset Distribution* or *Content Distribution - FTP*.
 - *Alert Delay Period*– The number of minutes the alert will be delayed.

- *Distribution Status Plugin* – Select the plugin from the drop-down menu.
 - *Deployment Status Plugin*– Select the plugin from the drop-down menu.
3. Click **Save**. The changes are saved.
The screen will display a message that the site was saved successfully.

Additional fields

Depending on which configuration is selected from the **Content Distribution** drop-down, additional fields will display. The *Associated Resource* field is optional. Other fields will be populated based on the required variables for the selected a template.

Child Distribution and Tracking Sites

Distribution Sites can have child tracking sites. These sites will not have as many parameters. These child sites can be edited, created, or disassociated from the parent site.

Logical sites can only have child distribution sites. These distribution sites can then have child tracking sites.

1. To edit a child tracking site, click on the parent distribution site to display the associated child sites.
2. Click on the child site and enter the following information. Required fields are marked with an asterisk:
 - *Name* – Unique name given to identify the site.
 - *Site Type* – The distribution site type, which is *tracking*. This field is not editable.
 - *External ID* – This field is required and will take any alphanumeric entry.
 - *Description* – Describes the type of distribution site and what it is used for.
 - *Alert Delay Period*– The number of minutes the alert will be delayed.
 - *Deployment Status Plugin*– Select the plugin from the drop-down menu.

Creating Child Tracking Sites

To create a child tracking site, right click the parent site. The following popup displays:

Figure 10.16: Create Child Tracking Site



1. Select *Create Child Tracking Site*. The following screen displays:

Figure 10.17: Create Child Tracking Site

Basic Rules Jobs Targeted Titles Aggregated View

Status: X

* Name

Site Type Tracking

* External Id

Description

* Alert Delay Period minutes

Deployment Status Plugin

Save

2. Fill in the required fields. The *Site Type* field automatically contains *Tracking* and is not editable.
3. Click **Save**. The confirmation will display.
4. Click **Activate** if you wish to activate this site.

Adding an Existing Child Tracking Site

To add an existing Child Tracking site to a Distribution Site, right-click on the parent site. The popup displays.

1. Select *Add Existing Tracking Site*. The following screen displays:

Figure 10.18: Existing Child Tracking Site List

Sites

- S_D
- Kann_Distribution
- Mobile
- Amit Logical
- DestinysChild
- Amit Tracking
- MI

Basic Rules Jobs Targeted Titles Aggregated View

	Name	External Id	Description
<input type="checkbox"/>	Kann_Deployment	Kann_Deploy_160901	
<input type="checkbox"/>	S_T	12345	

Add

Check here to add all sites

2. Check the sites you wish to add from the list, or click the check box in the header row to select All sites. Click **Add**.
3. The child tracking sites will be added to the sites listing. The Distribution site will display. Click **Save** to save this site.

Creating Child Distribution Sites

Logical sites can have both child distribution sites and child tracking sites.

1. To add a distribution site to a logical site, right click on the parent logical site and select *Create Child Distribution Site* from the pop-up.

2. Fill in the required fields. A child distribution site will contain all of the same fields as a parent distribution site. The Site Type will be automatically populated with *Distribution*.
3. Click **Save**. The confirmation message displays. You can now add child tracking sites to the child distribution site.

Disassociating Child Sites

To disassociate a shared child tracking site from a parent site, right click on the child site. The following popup displays:

Figure 10.19: Disassociate Child Site



Timed Distribution Sites

If you select **Timed** from the *Distribution Option* drop-down, you will also get the option to edit the timer after you have created the timed site.



Timer jobs created for a site can also be associated with titles.

1. Click on [Edit Timer](#) from the screen displayed below:

Figure 10.20: Edit Timer Option

A screenshot of a web form titled 'Edit Timer'. The form has tabs for 'Basic', 'Rules', 'Jobs', 'Targeted Titles', and 'Aggregated View', with 'Basic' selected. A message at the top says 'Site was saved successfully' with a red 'X' icon. The form contains several fields: 'Name' (TimedTest), 'Site Type' (Distribution), 'External Id' (666), 'Description' (test), 'File Lookup Keys' (Metadata Format: MSTV2), 'Distribution Option' (Timed, with an 'Edit Timer' link), 'Distribution Configuration' (Content Distribution - FTP), 'Schedule Id' (45), 'Provider ID' (dtv), 'FTP Location' (sftp/test/test), and 'Associated Resource' (File Management Subsystem).

Clicking this option brings up the following screen:

Figure 10.21: Create Timed Distribution Job

Create job for SITE : Test Timed Site

Job Schedule Information

* Job Schedule Rule:

Start Date:

End Date:

☐ On at 12:00 am

☐ Every day(s) at 12:00 am

☐ On MONDAY every week(s) at 12:00 am

Save **Cancel**

* Denotes Required Field

2. Enter the following information. Required fields are marked with an asterisk:
 - *Job Schedule Rule* – Click on the calendars to select the Start Date and End Date for the job.
 - Select one of the radio buttons to schedule the rule. The default time is 12:00 am. Click on the clock icon to change the time.
 - Click **Save**. The job will be created. It will not display in the listing.



The Start Date time must be in the future or an error will display.

Figure 10.22: Created Timed Distribution Job

Basic Rules **Jobs** Targeted Titles Aggregated View

Jobs for SITE : S_D

Create

Click the **Create** button to create another job for the Distribution Site or **Delete** to delete a selected job.



If you change a Timed Distribution job to Manual or Automatic, the job will be deleted. If you switch from Manual or Immediate to Timed, you will be prompted that the site will be de-activated. You will have to set the timer job for distribution. The link for this only appears after the site has been saved.

Rules

The Rules Tab is only available for Logical and Distribution Sites. Rules set for a logical site are applicable to all of its child distribution sites. Editing the rule set from any of its child distribution sites will change the rule set for all distribution sites under that logical site.

When *importing* rule sets, sites are matched by Site Name. For example, if a matching site name exists in the importing system, the imported Rule Set would be associated with that site.

1. Click on the **Rules** tab. The screen displays the following:

Figure 10.23: Rule Sets

Basic

Rules

Jobs

Targeted Titles

Aggregated View

Validation Rule Sets

<input type="checkbox"/>	ID	Enabled	Rule Set Name	Update Date
<input type="checkbox"/>	17		RetiredTitles	2010-10-04 17:32:31
<div>Create</div>		<div>Dissociate</div>		

Normalization Rule Sets

<input type="checkbox"/>	ID	Enabled	Rule Set Name	Update Date
<div>Create</div>		<div>Dissociate</div>		

Content Processing Rule Sets

<input type="checkbox"/>	ID	Enabled	Rule Set Name	Update Date
<div>Create</div>		<div>Dissociate</div>		

Rule sets can be used for Validation, Normalization, and Content Processing. See [“Defining Rules” on page 75](#) for more details.



Normalization rules cannot be reordered from this screen.

The **Rule Sets** screen contains the following fields:

- *ID* – Unique identifier given to the rule set.
 - *Enabled*– Indicates whether the rule set is enabled or disabled. A green button indicates that the rule set is enabled, while a red one indicates that it is disabled.
 - *Rule Set Name*– Unique name given to the rule set to describe its functionality.
 - *Update Date*– The date the rule set was last updated in YYYY-MM-DD HH:mm:ss format.
2. Click the **Create** button to create another rule set for this site.
 3. To disassociate the rule set with the site, click the checkbox next to the rule set and click **Dissociate**. The screen displays the following:

Figure 10.24: Rule Sets Disassociated

Normalization Rule Sets

Rule sets were dissociated successfully

<input type="checkbox"/>	ID	Enabled	Rule Set Name
--------------------------	----	---------	---------------

Create Dissociate

Displaying Rule Set Details

To display the details of a rule set:

1. Click on the ID number from the list.
2. The following screen displays:

Figure 10.25: Rule Set Details

Targeting Rule Set Details: noemptyfieldes

▼ Title Filter

☒ Not Package Is Empty

☒ Not Package.Asset Name Is Empty

☒ Not Package.Product Name Is Empty

AND

+

○

▼ Sites

Select: All None

☐ test site

☐ MediaRoom

☐ OpenBranch

☐ Logical Site

☒ Yo's Logical Site

☐ LucyLuLogic

▼ Rule Set Properties

Rule Set Name noemptyfieldes ☒ Enabled

Save Cancel



You can also display the Rule Set details by clicking on the Rule Set Name from the list. This can be done for all types of rule sets. Only rule sets that are associated with that site will be available from the drop down menu.

Creating and Deleting Jobs

Jobs can only be created for Distribution Sites. To create or view a job, click on the **Jobs** tab. The screen displays the following:

Figure 10.26: Jobs for Site

Create job for SITE : TimedTest

* Job Name:

Job Schedule Information

* Associate with Titles: ☒ Yes ☐ No

* Job Schedule Rule:

Start Date:

End Date:

☒ day(s) before at 12:00 am

☒ Execute Rule Set

☐ Execute Work Order

Priority: NORMAL

* Template:

* Denotes Required Field
 Indicates parameter reference

To create a job:

1. Click the **Create** button. The following screen displays:

Figure 10.27: Jobs for Site

Create job for SITE : newTest

* Job Name: NewATTSHO

Job Schedule Information

* Associate with Titles: ☒ Yes ☐ No

* Job Schedule Rule:

Start Date:

End Date:

☒ 3 day(s) before \$Title Metadata.Title.Asset Rights Information.Licensing Window End at 12:00 am

☐ Execute Rule Set

☒ Execute Work Order

Priority: HIGHEST

* Template: Date Test5

Job Parameters

* Required Date : \$Title Metadata.Poster.Asset Identifier.Asset ID

* Required Read Only Date : \$Title.Id

Optional Date :

Optional Read Only Date :

* Denotes Required Field
 Indicates parameter reference

2. Enter the following information. Required fields are marked with an asterisk:
 - *Job Name* – Unique name given to identify the job.
 - *Job Schedule Information*– Use the radio button to indicate whether or not the job should be associated with titles. Click on the calendars to select the Start Date and End Date for the job.



The Start Date must be in the future or an error will display.

- *Day(s)* – Indicate how many days before or after an event the job should run. Indicate the time the window should end.

- *Execute Rule Set*– If this radio button is selected, you must also select a rule set to execute from the drop-down.
- *Execute Work Order*– If this radio button is selected, you must also select the Priority and the Template from the drop-down menus.
- Click **Save**. The job will be created. The following screen displays:



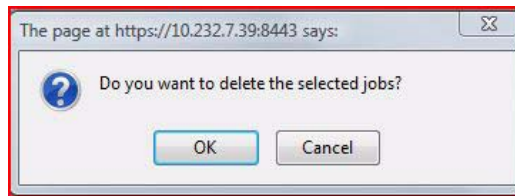
Depending on the template selected, various Job Parameters will have to be selected.

Figure 10.28: Created Job List

Jobs for SITE : TimedTest			
Name	Id	Template/RuleSet Name	Job Schedule Rule
test	7	Resize	4 day(s) before Title Metadata - Licensing Window End at 12:00 am
<div> <div>Create</div> <div>Delete</div> </div>			

To delete a job, click the **Delete** button. The following screen displays:

Figure 10.29: Delete Job Confirmation



Click **OK** to delete the job or **Cancel** to return to the created job list.

To view jobs for a site, click on the job link from the Job List screen. The job update page will display for that site.

Targeted Titles

The Targeted Titles Tab is available for Distribution and Tracking sites. For a distribution site, it shows the distribution status of the titles that were targeted to the site. For a tracking site, it shows the deployment status of the title that was targeted to the site from its parent distribution site. You can also run a template against a title from this tab.

1. Click on the **Targeted Titles** tab. The screen displays the following:



The columns for the Targeted Titles screen are configurable and may change for another deployment. The screen and fields shown below are an example of a typical configuration.

Figure 10.30: Targeted Titles List

Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
52871			said Monte Cristo,	PACK0271285576809654	22	1959-09-21T07:28:49	2024-07-26T08:28:06
52858			Spongebob Squarepants Movie	CMPA0581285632028352		2010-09-13T00:00:00	
50067			Sons of Anarchy Season 3	CMPA0581285652303124			

The **Targeted Titles** screen contains the following fields:

- *ID* – Unique identifier given to the title.
- *Status* - Icon that should indicate that the title is Targeted or In Process.
- *Thumbnail* - Image displaying the source partner, or an image from the asset such as box cover or poster.
- *Title Brief* – Abbreviated description of the title.
- *Asset ID* - Asset ID that uniquely identifies the specific asset.
- *Asset ID* - Asset ID that uniquely identifies the specific asset.
- *Major Version* – Major version specified in the metadata.
- *License Start* – Date the asset is available for viewing.
- *License End* – Date the asset is no longer available for viewing.

To distribute title(s):

- Put a check mark next to all title(s) that you wish to distribute. Select *Distribute* from the drop-down menu.
- Click the **Go** button from the bottom of the listing as shown in the following screen:

Figure 10.31: Distribute Titles Bottom of screen

Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
52803	<input type="checkbox"/>		The Incredible Hulk - Stan Marvel Kannan	CMPA0581285310599363			
52802	<input checked="" type="checkbox"/>		Sons of Anarchy Season 3	CMPA0581285382994837		2010-09-24T00:00:00	2011-01-14T00:00:00
52860	<input checked="" type="checkbox"/>		Spongebob Squarepants Movie	CMPA0581285632028352		2010-09-13T00:00:00	







- The icon will change to "*in progress*" and the confirmation will display:

Figure 10.32: Distribution in Progress Message

Targeted Titles

Scheduled distribution work orders for selected titles

Confirmation message

	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	59803			The Incredible Hulk - Stan Marvel Kannan	CMPA0581285310599363			
<input type="checkbox"/>	59802			Sons of Anarchy Season 3	CMPA0581285382994837		2010-09-24T00:00:00	2011-01-14T00:00:00
<input type="checkbox"/>	53860			Spongebob Squarepants Movie	CMPA0581285632028352		2010-09-13T00:00:00	

Distribute

10 25 50 100 rows per page

page 1 of 1

go to page: 1

Distribution in progress icon

5. To delete a title, put a check mark next to all title(s) that you wish to delete.
6. Select **Delete** from the drop-down menu.
7. Click the **Go** button from the bottom of the listing. The screen will display a confirmation message stating that the titles have been successfully deleted.
8. To run a template against a title, select the title, and then select **Run Template** from the drop-down menu.

Figure 10.33: Run Template Drop-down options

Basic Rules Jobs Targeted Titles Aggregated View

Targeted Titles

Select titles

	Id	Status	Thumbnail	Title Brief	Asset ID	Major Version	License Start	License End
<input checked="" type="checkbox"/>	59803			The Incredible Hulk - Stan Marvel Kannan	CMPA0581285310599363			
<input checked="" type="checkbox"/>	59802			Sons of Anarchy Season 3	CMPA0581285382994837		2010-09-24T00:00:00	2011-01-14T00:00:00
<input checked="" type="checkbox"/>	53860			Spongebob Squarepants Movie	CMPA0581285632028352		2010-09-13T00:00:00	

Run Template Demo Content Processing

10 25 50 100 rows per page

page 1 of 1

go to page: 1

Select template

9. Select the template that you want to run from the drop-down menu.
10. Click the **Go** button from the bottom of the listing. A confirmation message is displayed.

Targeted Titles Statuses

Targeted titles can have three possible statuses:

- Targeted - the title has been successfully targeted
- Distributed - title distribution is in progress
- Failed - the title has failed to be targeted or distributed.

The screen below shows the title status icons:

Figure 10.34: Targeted Titles Status Icons



Displaying Aggregated Views

The **Aggregated Views** tab is available for Logical and Distribution sites only. For a logical site, it displays all titles distributed and deployed from all its child distribution sites. For a distribution site, it shows all titles distributed and deployed from all its child tracking sites. The Aggregated Views function gives you a picture of all titles for a particular site and what status those titles are in for that site. It also provides a link to those titles.

Select the site that you wish to view. Click on the **Aggregated Views** tab. The screen displays the following:

Figure 10.35: Aggregated Views

Basic Rules Jobs Targeted Titles Aggregated View								
Title Brief	Targeted	Ready for distribution	Distribution in progress	Distributed	Distribution failed	Targeted	Deployment in progress	Deployment failed
The Incredible Hulk - Stan Marvel Kannan	0	0	0	0	1	1	0	0
Sons of Anarchy Season 3	0	0	0	0	1	1	0	0
Spongebob Squarepants Movie	0	0	1	0	0	1	0	0

10 25 50 100 rows per page

page 1 of 1

This screen contains the following fields:

- *Title Brief*– Unique identifier given to the title.
- *Targeted* - Number of titles that are in a targeted state.
- *Ready for distribution*- Number of titles that are in the Ready state.
- *Distribution in Progress*- Number of titles that are being distributed.
- *Distributed*- Number of titles that have been distributed.
- *Distribution failed*- Number of titles that have not been successfully distributed.
- *Targeted* - Number of titles that have been targeted for deployment.
- *Deployment in Progress* - Number of titles that are being deployed.

- *Deployment Failed* - Number of titles could not be deployed.
- *Deployed* - Number of titles have been deployed successfully.
- *Not Deployed*- Number of titles for which deployment status was not received.

To see details for any of these fields, click on the number link. For this example, we clicked the number [3](#) under *Targeted*. The following screen displays:

Figure 10.36: Aggregated Views Title Details

Basic Rules Jobs Targeted Titles Aggregated View						
Title ID	Title Brief	Asset ID	Major Version	License Start	License End	Site
1909	Sons of Anarchy Season 3	CPMA0331286476177017		2010-10-07T00:00:00	2011-02-11T00:00:00	Tracking site for MR
1909	Sons of Anarchy Season 3	CPMA0331286476177017		2010-10-07T00:00:00	2011-02-11T00:00:00	DOE
1909	Sons of Anarchy Season 3	CPMA0331286476177017		2010-10-07T00:00:00	2011-02-11T00:00:00	Yo's Tracking Site 1

10 25 50 100 rows per page page 1 of 1 go to page:

This shows the details for the three times that the title was targeted.

Aggregated Views Screens



The Aggregated Views screens contain another method for viewing various kinds of Title Details. These are the same screens that are described in [“Title Distribution Sites” on page 57](#), with another method for accessing them.

To view the titles from the Aggregated Views screen:

1. Click the link under the *Title Brief* field. The screen displayed in Figure 4-40 displays. [See the Title Metadata Tab Figure](#)
2. To view the XML metadata for this Title, click the **Preview** button. The screen shown in [“Previewing the XML” on page 53](#) displays.

To save a draft version of this title:

Click on the **Save as Draft** button. The screen will display a message that the title has been successfully saved. The title will have a Status = Draft.

To edit this title:

Change or enter data in any of the allowable fields. Click on the **Save** button. The screen will display a message that the title has been successfully saved.

To return to the **Search** screen, click the **Cancel** button.

To view the history of all actions taken for this title, click the **History** tab. The screen shown in [“Previewing the XML” on page 53](#) displays.

The **History** screen contains the following fields:

- *User*– User ID of the person that ran the action.

- *Action*– Indicates what action was taken for this title, such as updated or validated.
- *Date*– The date the title was last updated in YYYY-MM-DD HH:mm:ss format.
- *Revision* - The Revision number

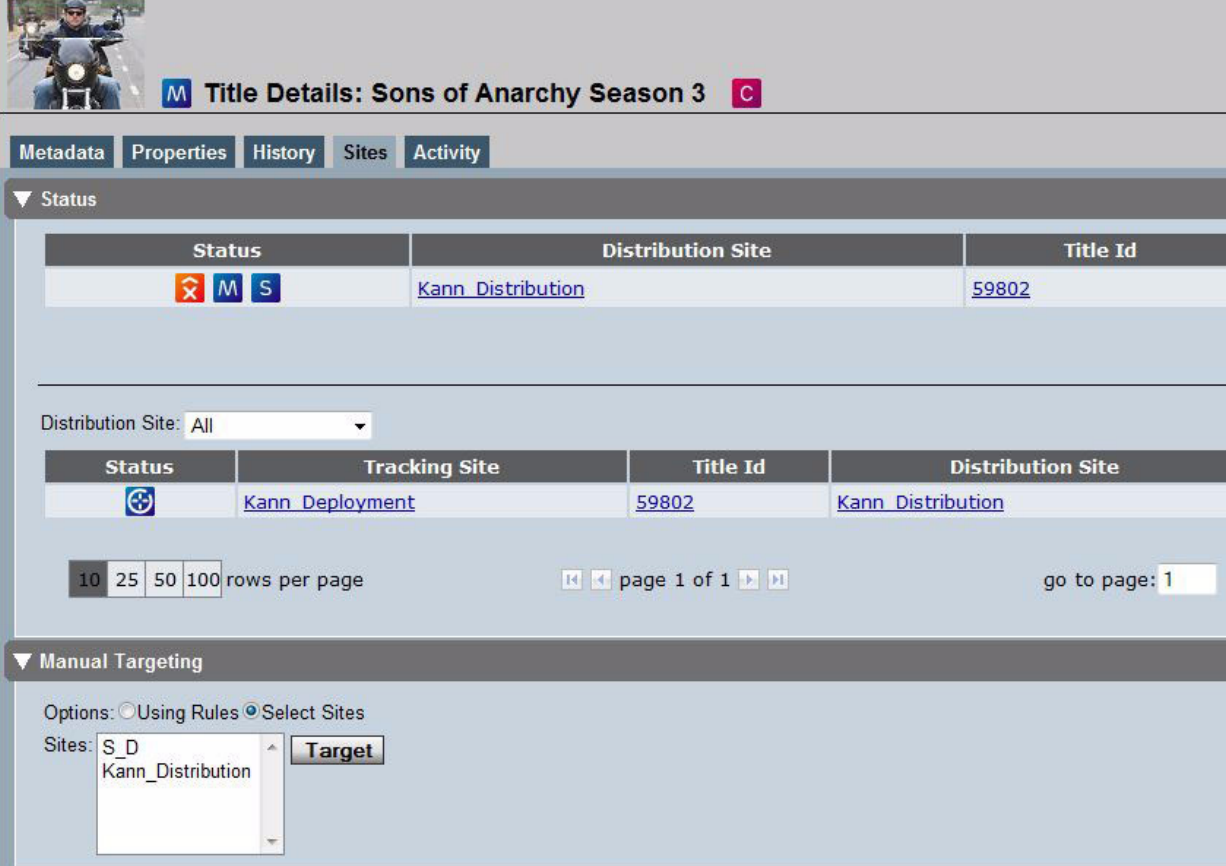
Click the link under the User field to display the Work Order Tasks associated with this title.

Click the link under the *Revision* field to display previous revisions for this title. The current revision does not have a link.

Aggregated Views Sites Tab

To view the sites that this title is targeted to, click the **Sites** tab. The screen displays the following:

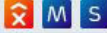
Figure 10.37: Aggregate Views Distribution Sites




Title Details: Sons of Anarchy Season 3

Metadata Properties History **Sites** Activity

▼ Status

Status	Distribution Site	Title Id
	Kann_Distribution	59802

Distribution Site: All

Status	Tracking Site	Title Id	Distribution Site
	Kann_Deployment	59802	Kann_Distribution

10 25 50 100 rows per page page 1 of 1 go to page: 1

▼ Manual Targeting

Options: ☐ Using Rules ☒ Select Sites

Sites: S_D
Kann_Distribution Target

This screen contains two sections; *Status* and *Manual Targeting*. The *Status* section contains two tables. The first table shows the status of distribution sites for the title and the other table displays the status of the tracking sites. In the second table, you can choose to see the status of tracking sites from all distribution sites by choosing *All* in the pick-list or you can view the status of tracking sites from a specific distribution site.

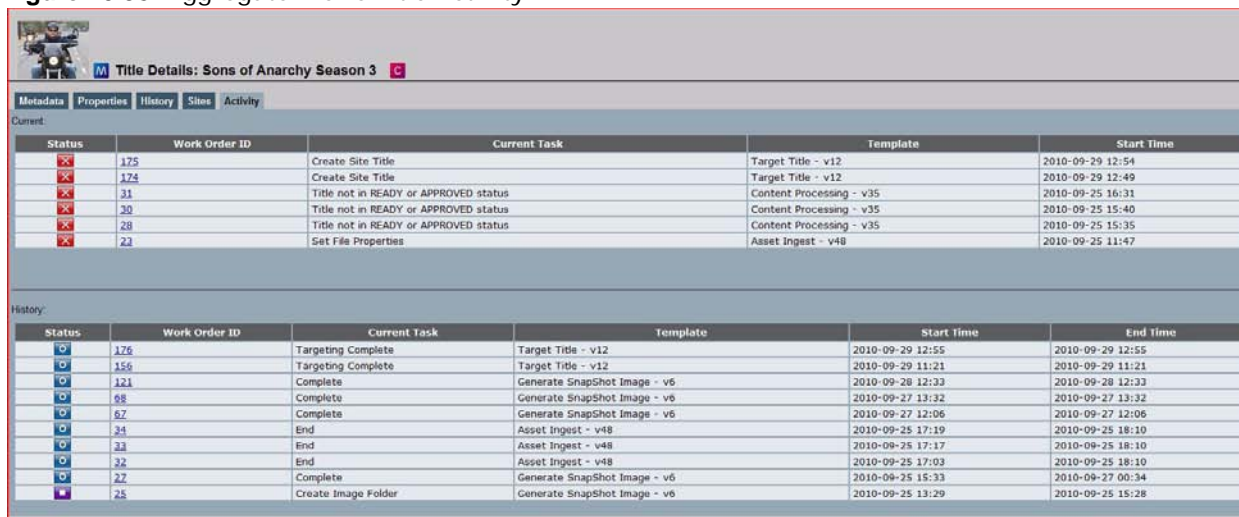
The **Sites** tab contains the following fields:

1. Status Section:
 - *Status (left column)*- Displays a distribution icon, which could indicate Targeted, Deployment In Process, Deployment Failed, Distributed, Ready for Distribution, Distribution Failed, or Completed.
 - *Master Status (middle column)* - Displays an icon stating whether or not the master title was changed after targeting.
 - *Site Status (right column)* - Displays an icon stating whether or not the site title was changed after distribution. These icons are described in ["Site Icons" on page 17](#).
 - *Title ID* - Unique identifier given to the title
 - *Distribution Site*- Unique name given to the site.
 - *Distribution Status* - Should be Targeted, Deployment In Process, Deployment Failed, Distributed, Ready for Distribution, or Completed. *Tracking Site*- Unique name given to the site.
 - *Title ID* - Unique identifier given to the title
 - *Distribution Site*- The site that was targeted.
2. Manual Targeting section - This section is described in ["Manually Targeting Titles" on page 59](#). To get details on this tracking site, click on the site name from the Tracking Site field. The **Basic** tab will display with the site details.

Aggregate Views Activity Tab

To view the Activity for this title, click the **Activity** tab. The screen displays the following:

Figure 10.38: Aggregate Views Title Activity



Status	Work Order ID	Current Task	Template	Start Time
	175	Create Site Title	Target Title - v12	2010-09-29 12:54
	174	Create Site Title	Target Title - v12	2010-09-29 12:49
	31	Title not in READY or APPROVED status	Content Processing - v35	2010-09-25 16:31
	30	Title not in READY or APPROVED status	Content Processing - v35	2010-09-25 15:40
	28	Title not in READY or APPROVED status	Content Processing - v35	2010-09-25 15:35
	23	Set File Properties	Asset Ingest - v48	2010-09-25 11:47

Status	Work Order ID	Current Task	Template	Start Time	End Time
	176	Targeting Complete	Target Title - v12	2010-09-29 12:55	2010-09-29 12:55
	156	Targeting Complete	Target Title - v12	2010-09-29 11:21	2010-09-29 11:21
	121	Complete	Generate Snapshot Image - v6	2010-09-28 12:33	2010-09-28 12:33
	88	Complete	Generate Snapshot Image - v6	2010-09-27 13:32	2010-09-27 13:32
	67	Complete	Generate Snapshot Image - v6	2010-09-27 12:06	2010-09-27 12:06
	34	End	Asset Ingest - v48	2010-09-25 17:19	2010-09-25 18:10
	33	End	Asset Ingest - v48	2010-09-25 17:17	2010-09-25 18:10
	32	End	Asset Ingest - v48	2010-09-25 17:03	2010-09-25 18:10
	27	Complete	Generate Snapshot Image - v6	2010-09-25 15:33	2010-09-27 00:34
	25	Create Image Folder	Generate Snapshot Image - v6	2010-09-25 13:29	2010-09-25 15:28

The *Current* section of the **Activity** screen contains the following fields:

- *Status Icon* – Indicates the status of the title.
- *Work Order ID*- Unique ID assigned to the work order for this title.
- *Current Task* - Describes what task is currently running for each work order. Options can include Targeting Complete, Create Site Title, and Request to Distribute Title.

- *Template* - The template ingested for this title.
- *Start Time*– The date and time the title distribution started in YYYY-MM-DD HH:mm:ss format.

The *History* section of the **Activity** screen also contains the *End Time* field, which indicates when the work order completed.

To get details on this title, click on the number from the *Work Order ID* field. The **Work Order Tasks** tab will display with the task details.

REPORTS

What's Ahead ...

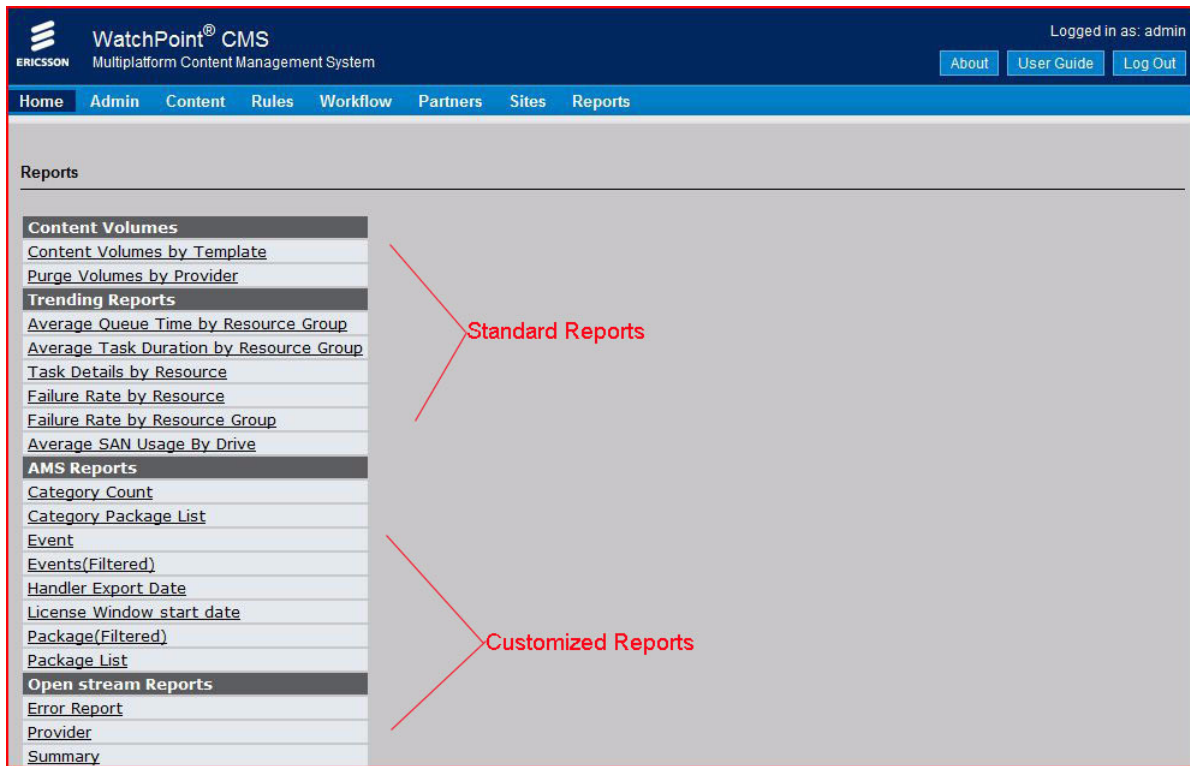
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Listing Reports

WatchPoint supports both standard and custom reports. Both types display in the Reports list.

Click [Reports](#) from the main menu. The list of reports is displayed.

Figure 11.1: Standard Reports



The following standard reports are included with the CMS installation.

Table 11.1: Standard Reports - Content Volumes

Report Name	Description
Content Volumes by Template	Number of work orders for a particular template within a specified date range
Purge Volumes by Provider	Titles that have been purged for a particular provider

Table 11.2: Standard Reports - Trending Reports

Report Name	Description
Average Queue Time by Resource Group	How long a work order stayed waiting on a queue before being processed (within a specified date range); Average time spent in queues for specified Resource Group(s)
Average Task Duration by Resource Group	How long each task takes on average
Task Details by Resource	What tasks (by work order) have been processed by a particular resource (within a specified date range), how long it took, when it was used, and the final status
Failure Rate by Resource	Rate of failure for a particular resource within a specified date range
Failure Rate by Resource Group	Rate of failure for a particular resource within a specified group

Table 11.2: Standard Reports - Trending Reports

Report Name	Description
Average SAN Usage by Drive	How much storage is being used within a specified date range

Additional example custom report templates that support **provider id**, **license window**, and **package asset id** parameters are described in the following table.

Table 11.3: Example Custom Reports

Report Name	Description
Content List by Provider	Assets that have been processed for a specific Provider and Asset Type within a specified date range
License Window Start Date	List of titles (assets) by license start date for MediaPath AMS
Count of Work Orders by Template, Provider	Number of work orders for a specific template and provider, within the specified date range
Work Orders per Package Asset ID	Number of work orders pertaining to a specific package

Running Reports

1. To run a report, click the [Report name](#). The screen below shows the entry screen for the *Average Queue Time by Resource Group* report.

Figure 11.2: Enter Report Parameters screen.

The screenshot displays the 'Enter Report Parameters' interface for the WatchPoint CMS. The header bar is dark blue with the Ericsson logo and 'WatchPoint® CMS Multiplatform Content Management System'. Below the header, the form is white with a light gray border. It features three main input sections: 'Resource Group*' with a dropdown menu currently set to '< All >', 'From Date* (yyyy-MM-dd)' with a text box and a calendar icon, and 'To Date * (yyyy-MM-dd)' with a text box and a calendar icon. At the bottom of the form are two buttons: a green 'Generate' button and a gray 'Cancel' button.

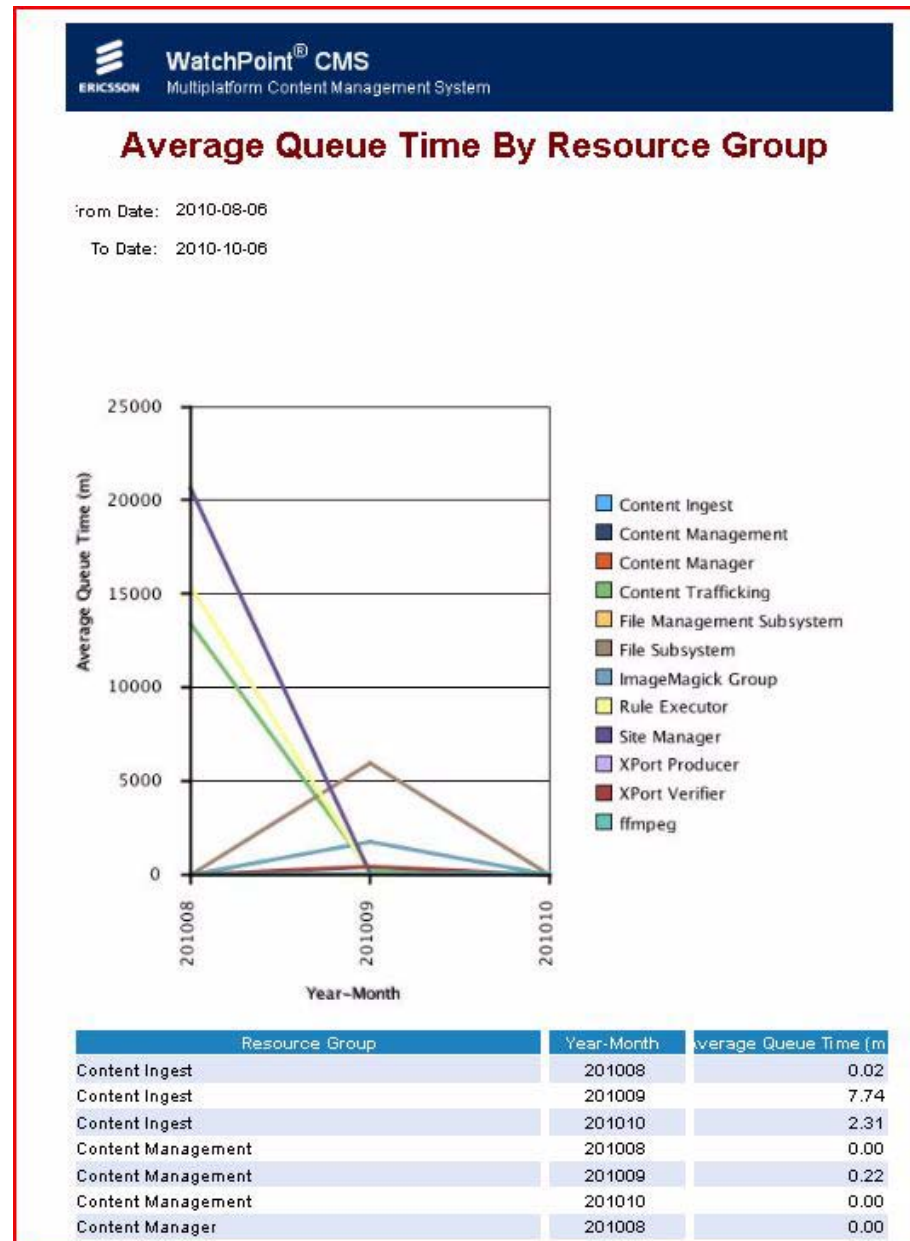
2. Enter the report parameters.
 - Select the Resource Group, or select the default **All**.
 - Click on the Calendar icon to enter the *From Date*.
 - Click on the Calendar icon to enter the *To Date*.

3. Click **Generate**. The screen displays the following:



Access to the reports is limited by the number of user licenses. Therefore, you must close the report window when you are done viewing the report, by clicking either the "x" in the report tool bar or the Close link.

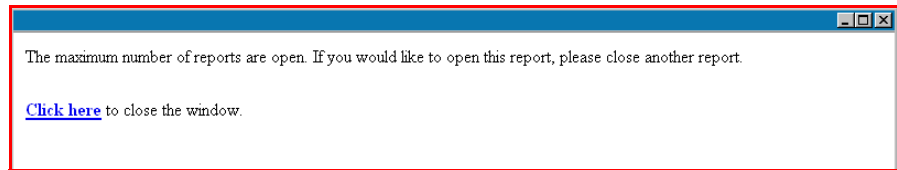
Figure 11.3: Report View



4. To cancel the report and return to the previous screen, click **Cancel**.

The following errors may be generated if the maximum number of reports are opened, or if the parameters are not entered:

Figure 11.4: Error When Maximum Reports Are Open



When parameters are required, a warning displays.

Figure 11.5: Parameters Are Required



Controlling the Report View

You can toggle the available commands from the Basic View to the Interactive View. The Basic View Menu features available for controlling the report view include:

- **File** - Open, rename, close, delete, save, save as, and export the report.
- **Edit** – Undo, Redo, Search
- **View** - Toolbar, Toc Browser, User Info, Refresh, Zoom
- **Report**– Filter, sort, max records, style
- **Help** – Contains links to the JReport users guide, the technical support page, and JInfoNet.

Figure 11.6: Example of JReport Help Window



The following icons, commands and menus are also available:

- **Save Result** – Saves the report result (see next section for further description of Saving Reports)
- **Print** – Prints the report result
- **Sort** – Brings up the sort options menu.
- **Search** – Searches for any text in the report
- **Max Records** – Enter the maximum number of records to be generated
- **Navigation** – use these arrows to go forward, backwards, and view first and last record.
- **Style** - Allows you to choose from a list of customized styles, such as Bottle Green, Classic Blue, Colorful, and Commercial.

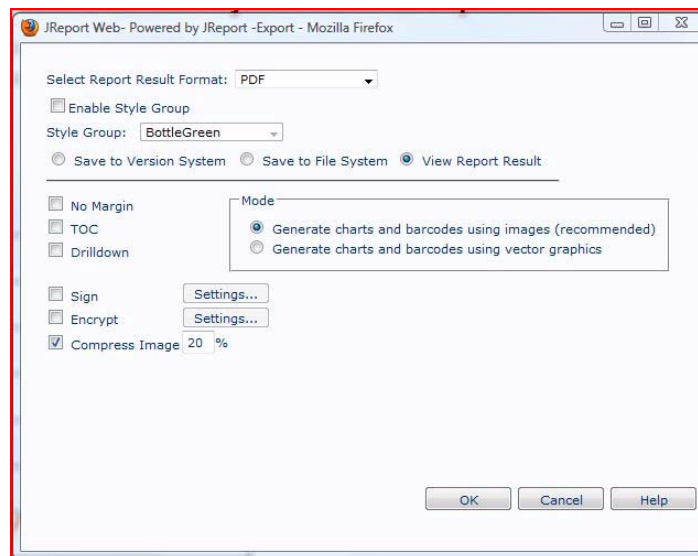
Figure 11.7: Basic View Toolbar



The Interactive View supplies the following icons:

- **Export** – Opens up the Jreport menu. You can export to PDF, Excel, RTF, HTML, Text, PostScript and XML. The following screen displays:

Figure 11.8: Example of JReport Export Window



- **Printable Version** - Brings up a menu that lets you select which page(s) you want to print.
- **Undo and Redo** – Undo recent view change; redo recent view change
- **Filter** – Set a series of conditions to reproduce the report by filtering the data buffer where data is cached
- **Sort** – Sorts records in the data buffer according to settings
- **Search** - Allows you to search up or down throughout the report.
- **Zoom** – Enlarge or reduce the size of the report result (Percentages available: 30, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, and 400%)
- **Navigation** – Navigate through the report with arrows that jump to (First, Previous, Next, or Last) pages or by typing the page number you want to see

Figure 11.9: Interactive View Toolbar

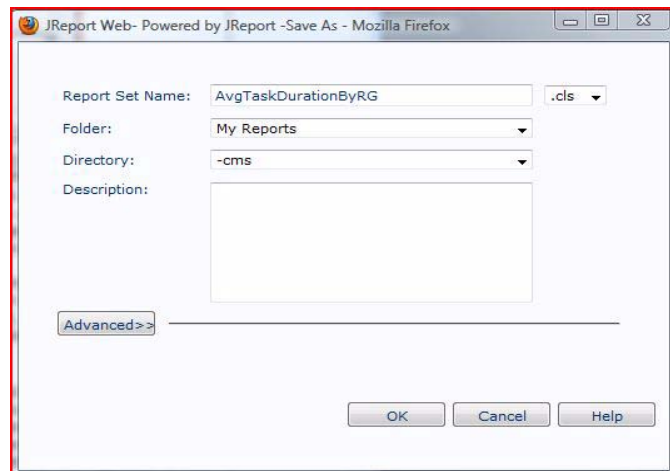


Saving the Report

To export and save the report:

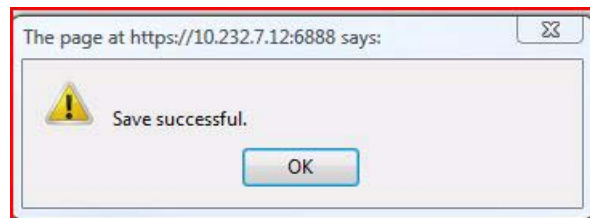
1. Click the *Save As* disk icon in the toolbar. The Save as screen is displayed:

Figure 11.10: Saving the Report



2. The *Report Set Name* field contains the default name for the report. Change the extension for the report if desired. For example, you can save the report as an XML file.
3. Select a folder where you want to save the report.
4. Add a description if desired.
5. Click **OK** to save the report.
6. Click **Advanced** to set additional options.
 - a. Select the Catalog from the drop-down.
 - b. Use the radio button to Select Original Catalog or Catalog Copy
 - c. Use the check boxes to save the sort and filter criteria if desired.
7. Click **OK**. The confirmation will display:

Figure 11.11: Report Saved Confirmation



Purge Volumes by Providers

The *Purge Volumes by Providers* report is new for CMS 1.5, and it contains a list of purged titles for a content provider. This confirms that heavy assets are deleted from the operator's system. Operators often keep the metadata around after deleting the heavy assets. This is referred to as *Retiring* the title as opposed to *Deleting* the title. This report provides the information for the file deletion as opposed to the metadata deletion.

The report displays the list of titles for which the files are purged during a user specified date range for selected content provider(s).

1. To run this report, click [Purge Titles](#). The screen displays the following:

Figure 11.12: Purge Titles parameters

2. Enter the report parameters. Select the Provider Name(s) from the listing.
3. Click on the Calendar icon to enter the *From Date*.
4. Click on the Calendar icon to enter the *To Date*. Click **Generate**. the screen displays the following:

Figure 11.13: Purge Volumes by Providers Report

Asset Name	Package Id	License Start Date	License End Date	Title Brief	Purge Date
Provider : Kann (KANN.com)					
KANN_Package_101	KANN2231220897101067	07/29/2010	07/29/2011	KANN_101067	09/22/2010
Provider : Madh (MADH.com)					
MADH_Package_100	MADH2231220897100921	09/21/2010	09/25/2010	MADH_100921	09/22/2010
	CMPA0121285216149135				09/22/2010
newer_1	CMPA0121285216171804				09/22/2010
Provider : TTV (TTV.COM)					
					09/14/2010
Madhu_pck	MADU1231220897240013			Madhu_Title	09/15/2010

The following table describes the fields displayed in this report:

Column Name	Description
Asset Name	Asset name specified for the top level group of the title.
Package Id	Identifier for the top level group of the title.
Provider Id	provider name
ProviderTitle	Title provider id
License Start Date	Title license start date
Deleted Files	List of deleted files. Only include the Original/Historical files in the reports (only the files delivered by the content provider)
License End Date	Title license end date
Purge Date	Date at which the files are deleted

VIDEO AND IMAGE TOOLS

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Overview

This chapter describes how to manipulate Video and Image Assets using various tools such as the CMS Video Player, Key frame generation, Logical Clips, Image Editor, and the Generate Snapshots tool. It also describes how to add an image to assets such as box covers and posters.

CMS Video Player

The CMS Video Player is used for the following:

- To specify mark in and mark out points for logical clips.
- To take a snapshot and save it as an image which can then be assigned to an asset, for example, a box cover.
- To preview video files

These options are described in the sections below.

Logical Clips

A logical clip is one contiguous part of the parent asset, such as a movie, which contains a short preview with one mark-in and one mark-out point. These clips are usually 5 minutes or less in length.

Logical clips have the same set of metadata as movie assets with the addition of mark-in and mark-out points. All metadata values from the "parent" movie assets are copied over except for the asset ids. A new asset id is generated.

The mark-in and mark-out points are specified in a metadata file. A logical clip is commonly used to create a 5 minute preview of a movie without having to have a separate trailer clip. Logical clips can be created by users with title create permission and modified or deleted by users with title modify permission.

There are two options that can be used to create a logical clip:

- Set Mark-in/Mark-out from Key frames
- Set Mark-in/Mark out from Video.

Logical Clip:

A continuous part of a parent asset, such as a movie, which contains a short preview with one mark-in and one mark-out point.

Creating a Logical Clip from Video

Logical clips can be created through the video preview GUI, the key frame image panel, or by manually specifying the mark in and mark out points. The second two methods will be described in a later section.

When a logical clip is created through the video player, the user designates the mark in and mark out points by pressing the corresponding buttons on the GUI. When the user clicks the "Mark-in" or "Mark-out" button on the video player panel, the current time code is retrieved from the player and displayed on the GUI. When the **Done** button is clicked, CMS creates the logical clip.

1. To create the logical clip, first select the Title from the *Title Search* Results screen or create a new title from the *Create Title* screen. Click on the **Metadata** tab.
2. Right-click on the **Movie** asset. The *Add* pop-up displays.
3. Click **Add**. The screen displays the following:

Figure 12.1: Create Logical Clip

The screenshot shows a web interface for managing media assets. At the top, there's a header with a small image of a motorcycle and the title 'Title Details: Sons of Anarchy Season 3'. Below this is a navigation bar with tabs: 'Metadata', 'Properties', 'History', 'Sites', and 'Activity'. The 'Metadata' tab is selected. On the left, there's a sidebar with a tree view showing 'Package' expanded, with 'Title' and 'Movie' listed. A context menu is open over 'Movie', showing options: 'Add', 'Logical Clip', and 'Create Image from Video'. The 'Logical Clip' option is highlighted. The main area displays the 'Metadata' form for a new asset. The form includes fields for 'Asset Name', 'Asset ID' (pre-filled with 'CMMO0581285382994838'), 'Creation Date', 'Description', 'Product', 'Provider Name' (pre-filled with 'DirecTV'), 'Provider ID' (pre-filled with 'DTV.com'), 'Version Major', 'Version Minor', 'Verb', 'Application Type', 'Screen Format', 'HD Content' (dropdown), 'Video Bit Rate', 'Copy Protection' (dropdown), 'Copy Protection (Verbose)' (dropdown), 'Analog Protection System', 'Encryption Mode Indicator', and 'Constrained Image Trigger'. At the bottom of the form are buttons: 'Save', 'Save as Draft', 'Preview', and 'Cancel'.

4. Select **Logical Clip**. The Logical Clip asset will be added under the Movie hierarchy.
5. Click **Logical Clip** to display the asset page. The screen displays the following:

Figure 12.2: Logical Clip Metadata screen

The screenshot shows the 'Logical Clip Metadata' screen for the title 'Sons of Anarchy Season 3'. The interface includes a sidebar with a tree view showing 'Package', 'Title', 'Movie', 'Logical Clip', and 'Poster'. The main area has tabs for 'Metadata', 'Properties', 'History', 'Sites', and 'Activity'. The 'Metadata' tab is active, displaying a form with the following fields: Asset Name, Asset Class (dropdown), Asset ID, Creation Date, Description, Product, Provider Name (set to 'DirecTV'), Provider ID (set to 'DTV.com'), Version Major, Version Minor, Verb, Application Type, Mark In, and Mark Out. At the bottom, there are buttons for 'Save', 'Save as Draft', 'Preview', and 'Cancel'.

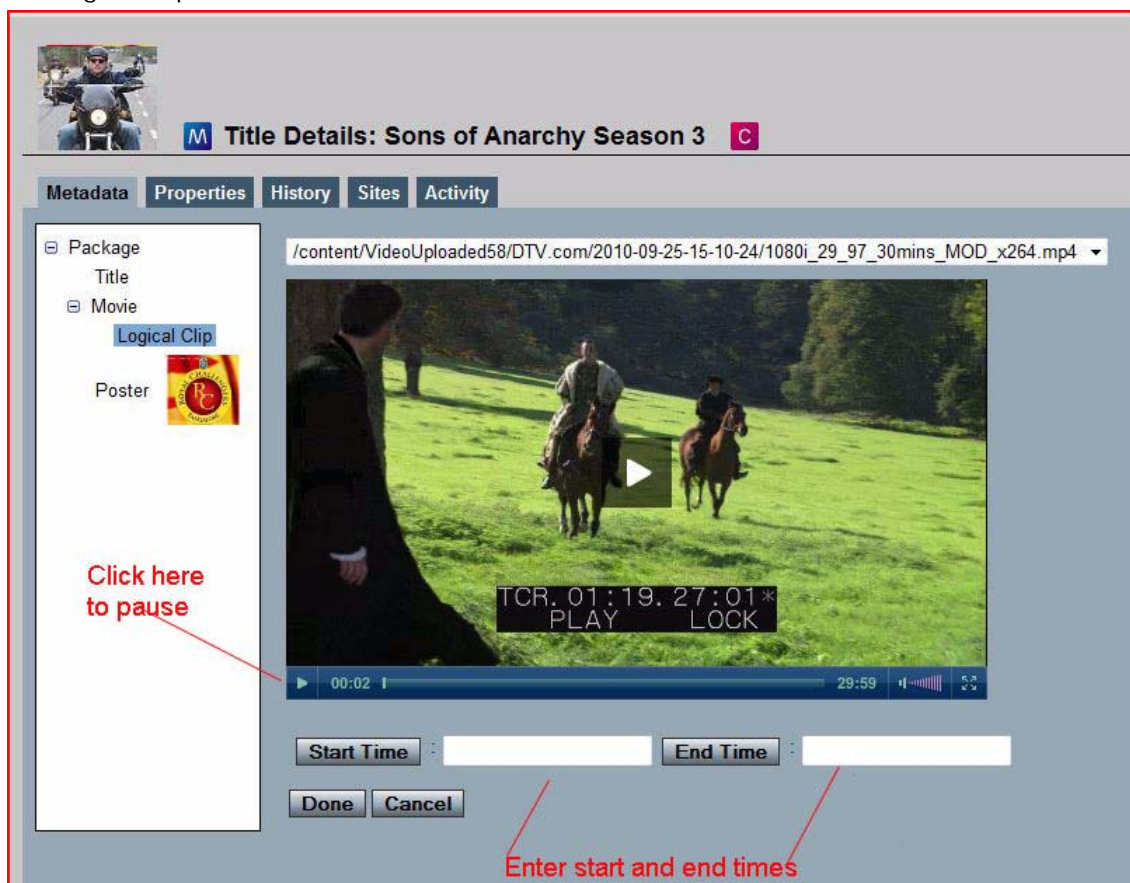
6. Enter the logical clip information. Click **Save** to validate the metadata or **Save as Draft** to save without validating. The confirmation message will display.
7. Select **Movie** to display the list of saved logical clips for this title. Right-click on the logical clip. The screen displays the following:

Figure 12.3: Logical Clip Options

The screenshot shows the 'Logical Clip Options' screen for the title 'Sons of Anarchy Season 3'. The interface is similar to Figure 12.2, but the 'Logical Clip' in the sidebar is selected, and a context menu is open over it. The context menu options are: 'Remove', 'Set Mark-in/Mark-out from Keyframes', and 'Set Mark-in/Mark-out from Video'. The main area shows the 'Metadata' tab with the following fields: Asset Name (set to 'the crow files high'), Asset Class (dropdown), Asset ID (set to '.00581285612930038'), Description (set to 'the crow files high preview song'), Product, Provider Name (set to 'DirecTV'), Provider ID (set to 'DTV.com'), Version Major, and Version Minor.

8. Select **Set Mark In/Mark Out from Video**. The screen displays the following:

Figure 12.4: Logical Clip on GUI



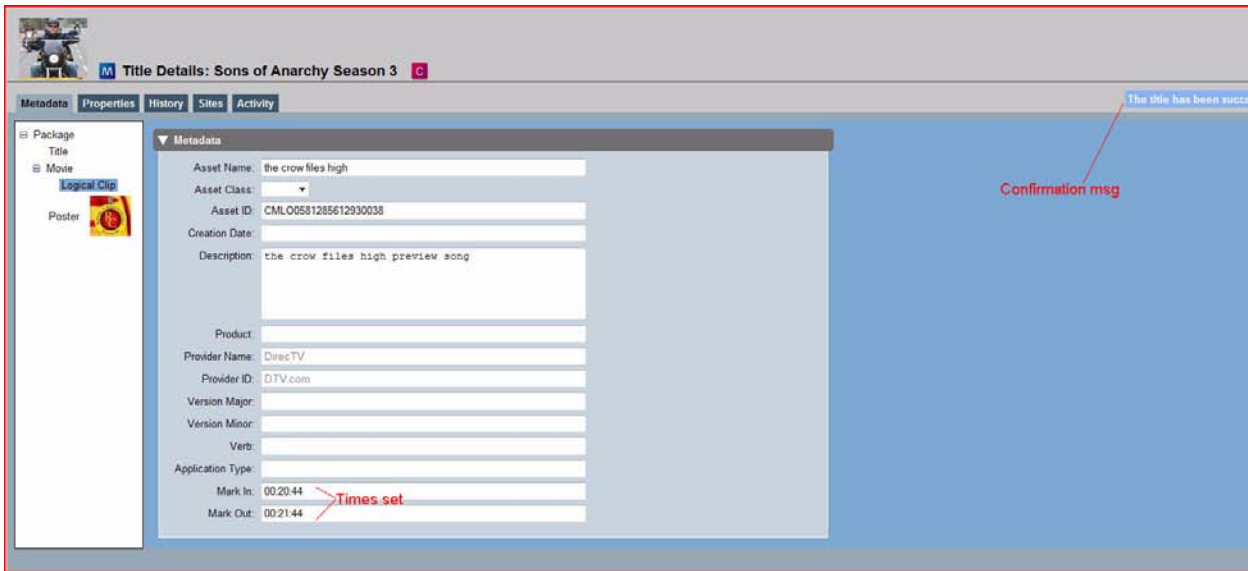
9. Click *Play* to preview the video to the desired position.
10. Click *Pause*, and then click the **Start Time** button to change the mark in time if desired.



You can also use the scroll bar to scroll through the video to capture the start time.
If you know the desired times, you can also type them in manually.

11. Play the video to the desired end position, click *Pause*, and click the **End Time** button to set or change the mark out time.
12. Click **Done** to return to the Metadata tab. The *Mark In* and *Mark Out* times are now set as shown below:

Figure 12.5: Title with Times Set for Logical Clip



13. Click **Save**. The confirmation message will display.



You can also create a logical clip from a Keyframe. See ["Creating Logical Clips from KeyFrames" on page 238](#)

Button Definitions

Mark In - This Button is enabled only when the player is in the *idle* or *paused* state. Retrieve the timeline position to set the mark in position for the logical clip.

Mark Out - This Button is enabled only when the player is in the *idle* or *paused* state. Retrieve the timeline position for setting mark out position for the logical clip.

Since the video is being streamed, you can use the time slider in the player to move to any position. You can also enter and override the values.

Deleting a Logical Clip

1. To delete a logical clip, select a Title from the *Title Search Results* Menu. Click on **Movie** —> **Logical clip**. The Logical Clip Options screen displays as shown in Figure 12-3.
2. Select **Remove**. The logical clip is removed from the listing as shown in Figure 12.2.



The list of playable files does not include historical files.

Creating a Video Image

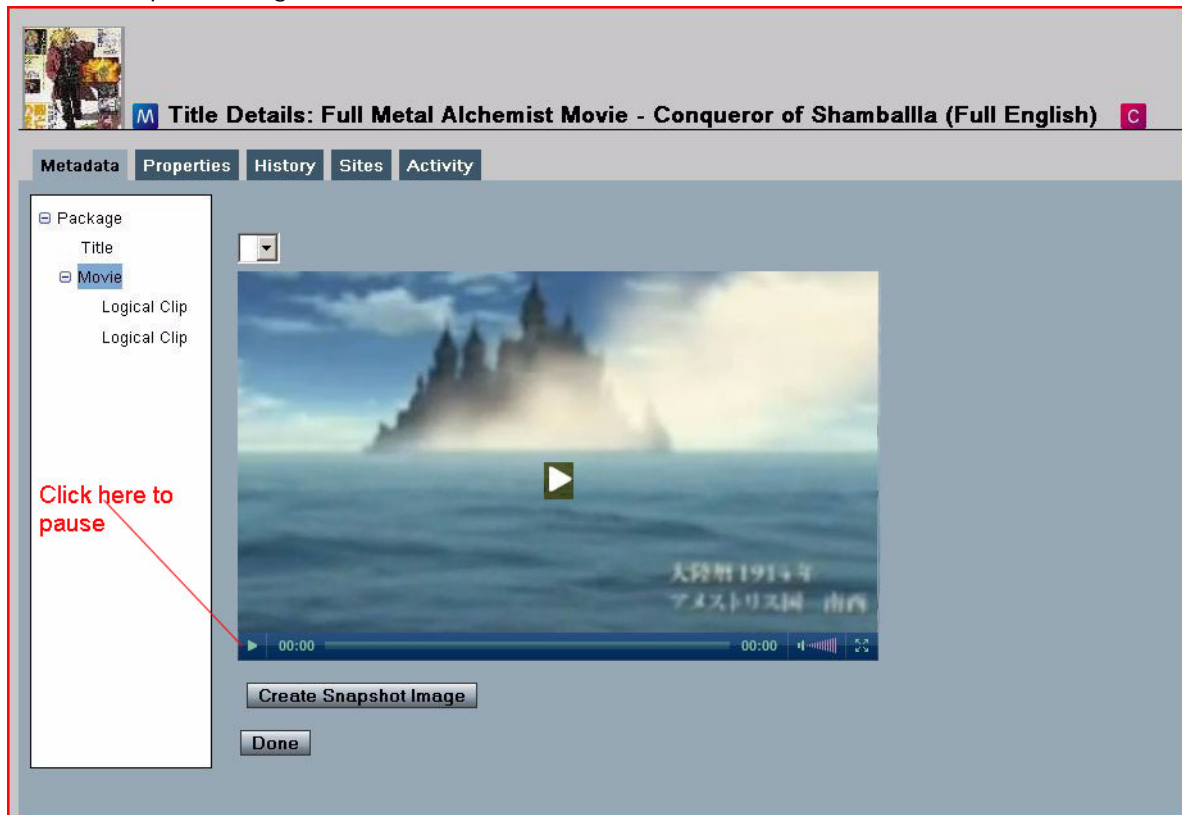
1. To create a Video Snapshot image, first select the Title from the *Title Search Results* screen or create a new title from the *Create Title* screen. Click on the **Metadata** tab.
2. Right-click on the **Movie** asset to access the video player. The screen displays the following:

Figure 12.6: Create Video Image

The screenshot shows a software interface with a top navigation bar containing tabs: Metadata, Properties, History, Sites, and Activity. The 'Metadata' tab is selected. On the left, a sidebar shows a tree view with 'Package' expanded, containing 'Title' and 'Movie'. A right-click context menu is open over the 'Movie' asset, showing options: 'Add' and 'Create Image from Video'. The main area displays a form titled 'Metadata' with the following fields: Asset Name (text input), Asset Class (dropdown), Asset ID (text input), Creation Date (text input), Description (text area), Product (text input), Provider Name (text input, containing 'Universal Pictures'), Provider ID (text input, containing 'universal'), Version Major (text input), Version Minor (text input), Verb (text input), Application Type (text input), Screen Format (text input), HD Content (dropdown), Video Bit Rate (text input), and Copy Protection (dropdown). At the bottom of the form are four buttons: 'Save' (green), 'Save as Draft' (green), 'Preview' (grey), and 'Cancel' (red).

3. Select *Create Image from Video*. The screen displays the following:

Figure 12.7: Snapshot Image Preview



4. Click *Play* to preview the video to the desired position.
5. Click *Pause* to stop the video at the desired image.
6. Click the **Create Snapshot Image** button. The filename and timeline position will be queued to create the image.
7. The following message will display.

Figure 12.8: Snapshot Confirmation Message

Creating snapshot image process was initiated successfully. Please see the following view for details: [Activity](#)

8. Click **Done**. The Title Metadata page will re-display.
9. Click the **Activity** tab, or click the [Activity](#) link from the confirmation message. The screen displays the following:

Figure 12.9: Snapshot Activity Tab

History:

Status	Work Order ID	Current Task	Template	Start Time	
	67	Complete	Generate SnapShot Image - v6	2010-09-27 12:06	2010-
	34	End	Asset Ingest - v48	2010-09-25 17:19	2010-
	33	End	Asset Ingest - v48	2010-09-25 17:17	2010-
	32	End	Asset Ingest - v48	2010-09-25 17:03	2010-
	27	Complete	Generate SnapShot Image - v6	2010-09-25 15:33	2010-
	25	Create Image Folder	Generate SnapShot Image - v6	2010-09-25 13:29	2010-

Message for SnapShot activity

10. The *Generate Snapshot* image work order will be created. Click on the link to display the work order:

Figure 12.10: Generate Snapshot Work Order

The screenshot shows the WatchPoint CMS interface. The top navigation bar includes Home, Admin, Content, Rules, Workflow, Partners, Sites, and Reports. The main content area is titled 'Tasks' and shows details for a task with ID 2560, Template 'Generate SnapShot Image - v3', Title '1850', Start Time '2010-09-03 15:29:58', End Time, Operational Status 'ERROR', and Admin Status 'ERROR'. Below this is a 'Current Tasks' table with columns Name, Percent, Start Time, End Time, and Status. The table shows two tasks: 'Generate SnapShot Image' (0% complete, ERROR status) and 'Complete' (0% complete, PENDING status). Below the current tasks is a 'Task History' table with columns Name, Percent, Start Time, End Time, and Status. The table shows three tasks: 'Start' (100% complete, COMPLETED status), 'Initialize Variables' (100% complete, COMPLETED status), and 'Create Image Folder' (100% complete, COMPLETED status). At the bottom are buttons for Retry, Restart, Cancel Work Order, and Delete.

Name	Percent	Start Time	End Time	Status
Generate SnapShot Image	0%	-NA-	-NA-	ERROR
Complete	0%	-NA-	-NA-	PENDING

Name	Percent	Start Time	End Time	Status
Start	100%	2010-09-03 15:29:58	2010-09-03 15:29:58	COMPLETED
Initialize Variables	100%	2010-09-03 15:29:58	2010-09-03 15:29:58	COMPLETED
Create Image Folder	100%	2010-09-03 15:29:59	2010-09-03 15:29:59	COMPLETED

Assigning an Image to an Asset

In the following example, we are going to assign a Box Cover image to an asset.

1. To assign an image to an asset, first select the Title from the *Title Search Results* screen or create a new title from the *Create Title* screen. Click on the **Metadata** tab.
2. Right-click on the **Box Cover** asset to assign an image to the asset. The screen displays the following:

Figure 12.11: Set Image

The screenshot shows the 'Title Details: Sons of Anarchy Season 3' screen. The left sidebar has a tree view with 'Package' expanded, showing 'Title', 'Movie', 'Poster', and 'Box Cover'. The 'Box Cover' item is selected, and a context menu is open with options: 'Remove', 'Set Image from Keyframes', and 'Set Image from Snapshots'. The main content area shows the 'Metadata' tab with fields for Asset Name (soafx123), Asset Class (box cover), Asset ID (CMD12343222), Creation Date (2010-10-08 00:00:00), and Description (Season Preview box cover).

- a. To use a snapshot image, select **Set Image from Snapshots**.

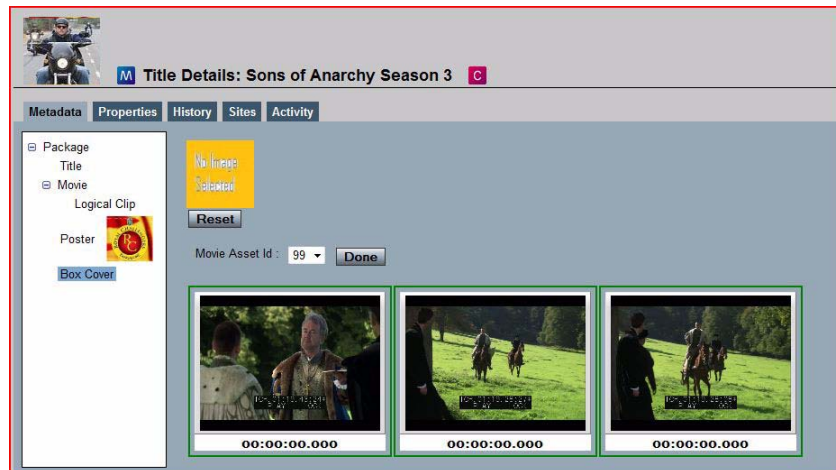
- b. To use a keyframe image, select **Set Image from Keyframes**.



See [“Assigning an Image using Keyframes” on page 242](#) for further details on the view that will be brought-up by this menu.

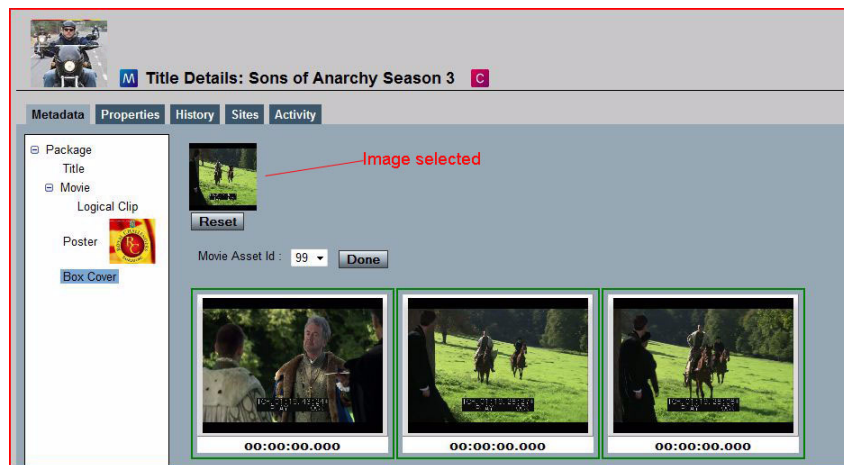
3. For this example, select **Set Image from Snapshots**. The screen displays the following:

Figure 12.12: Set Image from Snapshot



4. Select the desired image. The screen will display the image in the top box as shown below:

Figure 12.13: Snapshot Selected



5. If you are satisfied with the selected image, click **Done**. The image will be set.
6. If you are not satisfied with the image, click **Reset** to clear this screen.



You can also assign an image to another image asset, such as a poster.

7. Click **Save** to save the image to the asset for the title. The confirmation message will display. The image will display next to the Box Cover asset as shown below:

Figure 12.14: Snapshot Saved to Box Cover

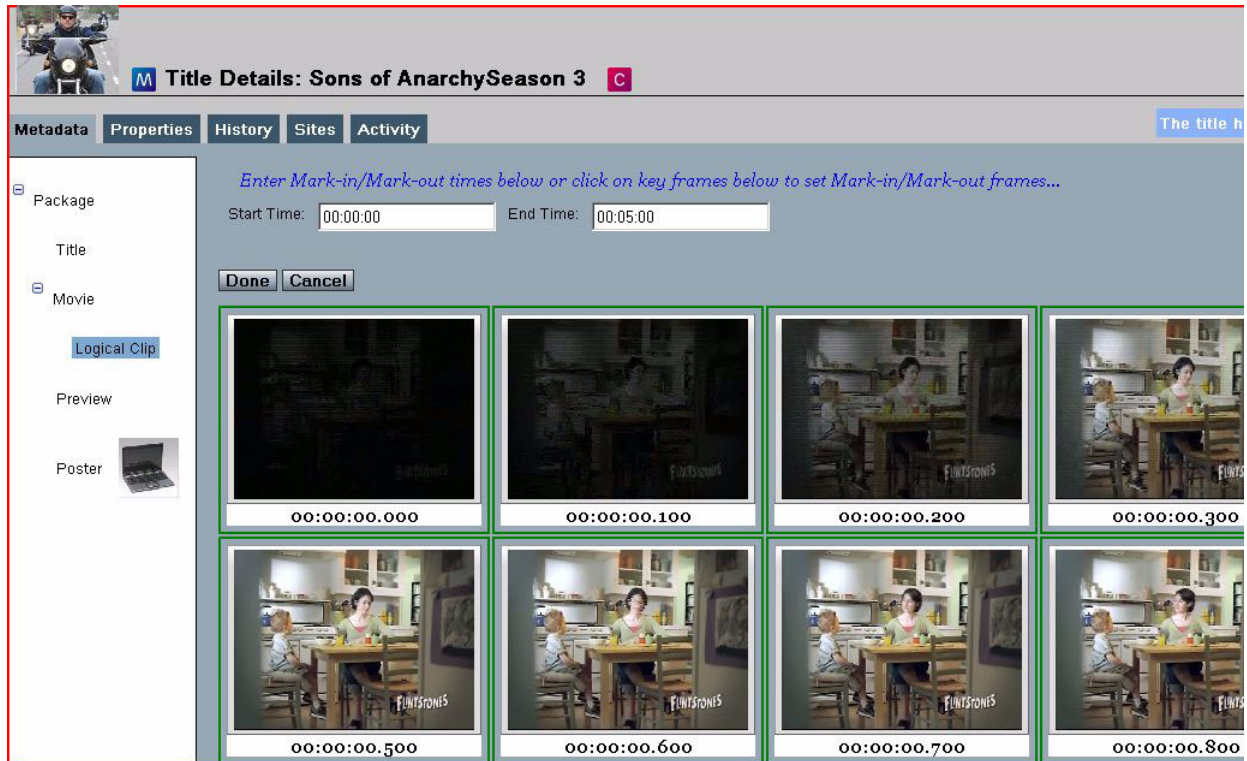


Creating Logical Clips from KeyFrames

A logical clip can be created from keyframes. Each keyframe is accompanied by the time code and the check box to indicate mark in and mark out points.

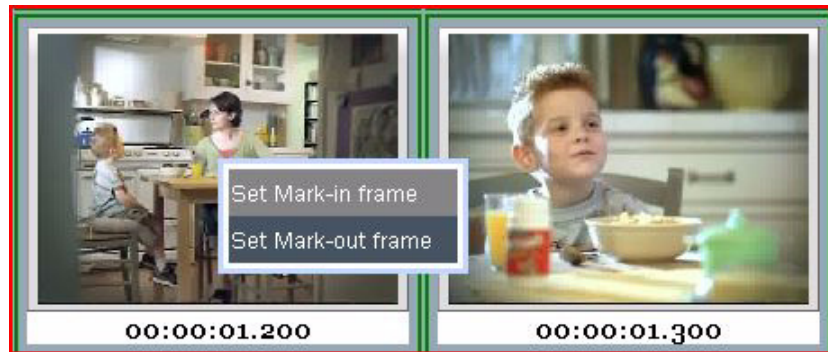
1. Select the Title that you want to create a logical clip for.
2. Select **Movie** to create a new logical clip, or display the list of saved logical clips for this title. Right-click on the logical clip. The screen displayed in Figure 12-1 displays.
3. Click the **Set Mark in/Mark out from Keyframe** option. The screen displays the following:

Figure 12.15: Create Logical Clip from Keyframe



4. Right-click on the frame you wish use as the mark-in frame and select Set Mark-in Frame. The screen displays the following:

Figure 12.16: Set Mark-in Frame



5. Select the mark-in time for the logical clip. Navigate to the clip you want to use as the mark-out frame.



Use the Page Navigation buttons shown in Figure 2-6 to navigate through the keyframes.

The screen displays the following:

Figure 12.17: Create Logical Clip Placeholder



6. Select the Mark-out time for the logical clip. The selected times are saved as shown in the following screen:

Figure 12.18: Logical Clip Mark In Times



7. Click the **Done** button. The logical clip is added to the title as a Logical Clip asset. The Mark In and Mark Out times are added to the metadata page and the confirmation message displays as shown below.

Figure 12.19: Mark In Times on Metadata Page

Title Details: Sons of AnarchySeason 3

Metadata Properties History Sites Activity

Package

Title

Movie

Logical Clip

Preview

Poster

Metadata

Asset Name: thats life

Asset Class: movie

Asset ID: illogicalclip

Creation Date: 2010-09-28 00:00:00

Description: Sons of Anarchy theme song

Product:

Provider Name: TTV

Provider ID: TTV.COM

Version Major: 5

Version Minor: 3

Verb:

Application Type:

Mark In: 00:00:01

Mark Out: 00:00:11

The title has been successful

Confirmation msg

Times set from keyframes

The logical clip can also be created by entering the time code for the mark in and mark out points manually.

About Keyframes

Keyframes can be generated through asset ingest or manually from the GUI. CMS 1.5 provides the ability to generate keyframes (images) from the main video asset and associate them with titles. The template used determines whether or not the keyframes are generated during the title ingest. The template specifies the title id, asset id and additional parameters required to generate key frames.

You can extract key frames from a given video. You can also manually trigger the keyframe generation from the GUI using the Workflow menu.

Keyframe Generation provides two options to specify the time limit for the frame:

1. *Capture the frame every specified number of seconds*

When this option is selected, images are captured every specified number of seconds for the entire duration of the title. For example, if this number is set to 5, the images are captured every 5 seconds. This option is used when generating keyframes for specifying mark-in and mark-out points for logical clips.

2. *Capture a specified number of frames*

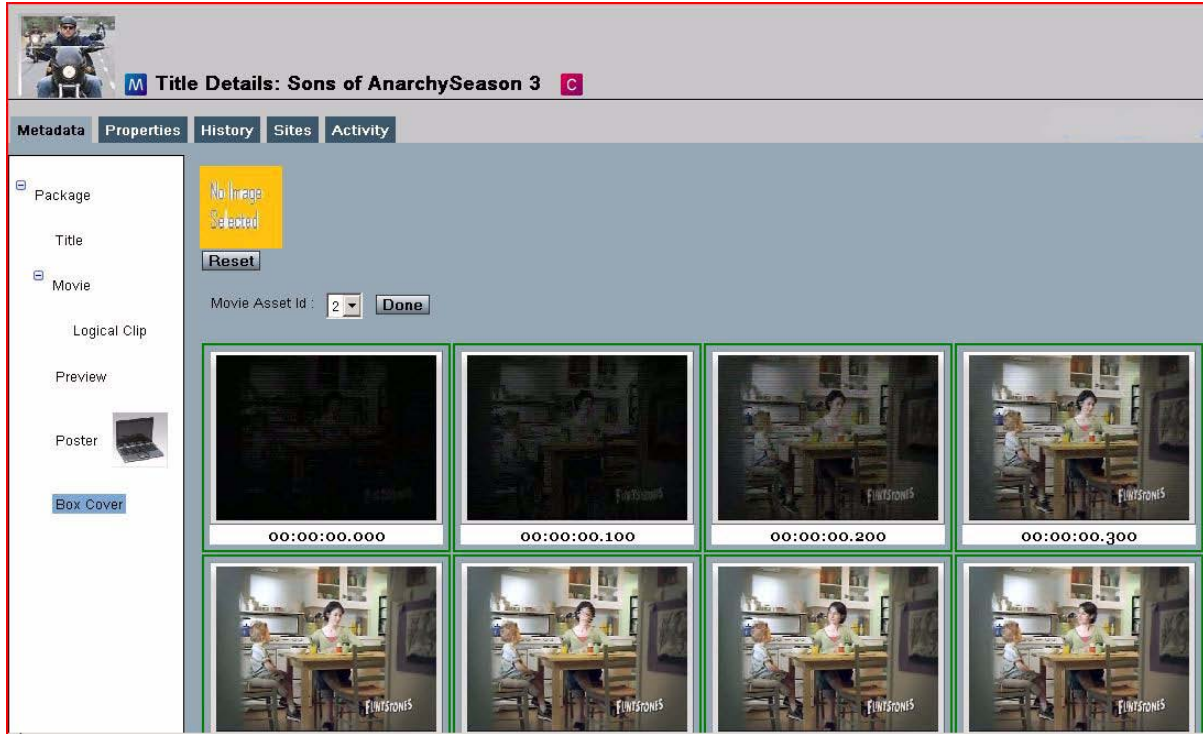
When this option is selected, a specified number of images is captured equally distributed across the video asset. For example, if 10 is specified, and the video contains 100 frames, one frame will be captured for every ten frames. This option is useful when the keyframe is used to select an image for the poster or boxcover asset and the number of candidate frames must be limited regardless of the duration of the content.

Assigning an Image using Keyframes

A keyframe image can be added to a Box Cover or Poster asset. For the example below, we will be using a Box Cover.

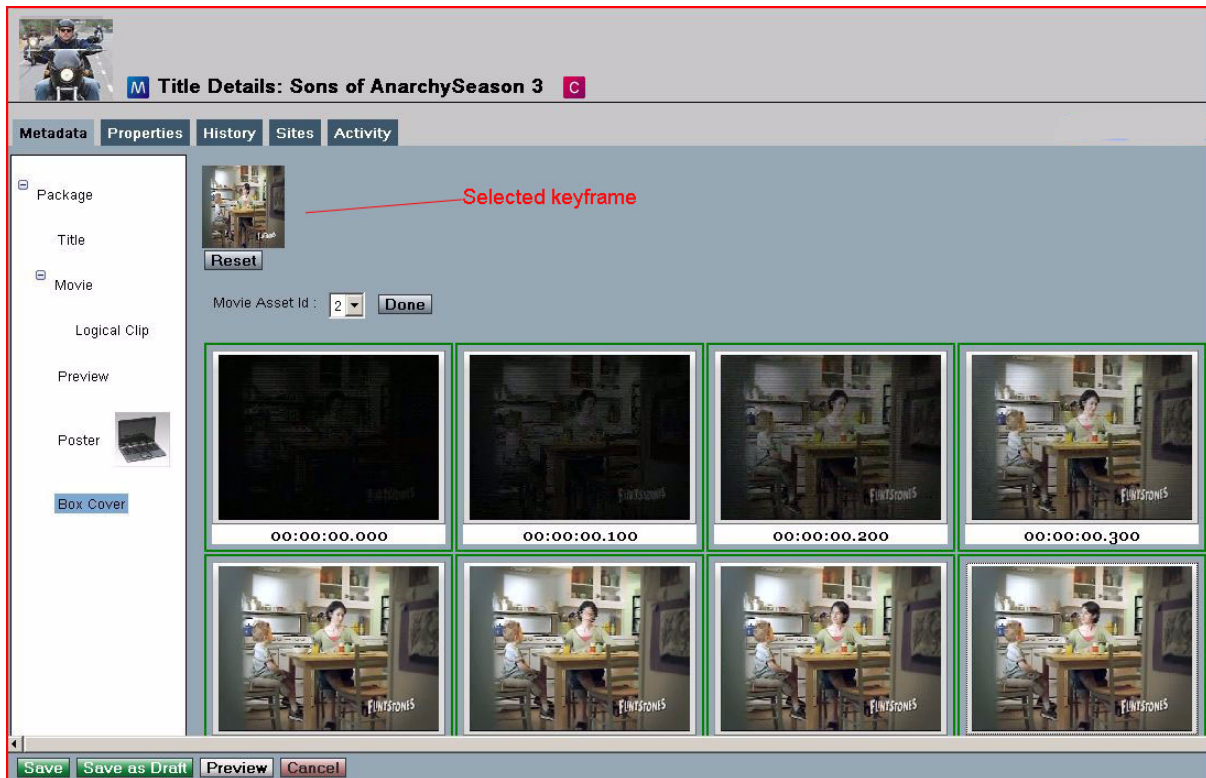
1. Select the Title from the *Title Search* Results screen or create a new title from the *Create Title* screen.
2. Right-click on the **Box Cover** asset to assign an image to the asset. The screen shown in Figure 12-9 displays.
3. To use a keyframe image, select **Set Image from Keyframes**. All available keyframes display with each image accompanied with the timecode as shown below:

Figure 12.20: Set Image from Keyframes



4. Select a keyframe to associate with the image type asset. The screen displays the following:

Figure 12.21: Image set from Keyframes



5. Click **Done** to add this image to the Box Cover.
6. If you want to remove this image from the Box Cover, click **Reset** prior to saving the image.



When a title is deleted, all generated keyframe files are deleted.

7. Click **Save** to refresh the metadata screen. The new image will display next to the box cover as shown in the following screen:

Figure 12.22: New Box Cover Image set from Keyframes

The screenshot shows a web-based metadata form for 'Title Details: Sons of Anarchy Season 3'. The 'Box Cover' field is highlighted with a red arrow and the text 'New cover from keyframes'. The form includes fields for Asset Name, Asset Class, Package Asset ID, Creation Date, Description, Product, Provider Name, Provider ID, Version Major, Version Minor, Verb, Application Type, and Metadata Specification Version. A status bar at the top right indicates 'The title has been successfully saved'.



To view work orders and templates used for keyframes, see [“Viewing Work Order Properties” on page 109](#)

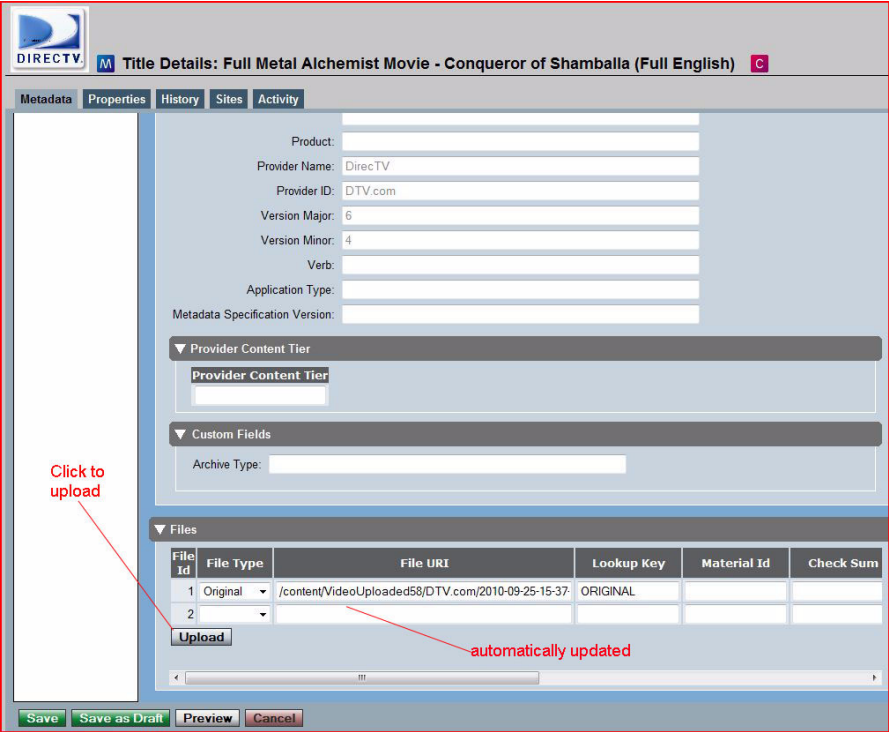
Uploading an Asset File

You can upload content files through the web based GUI. The uploaded files are placed on the content folder for the applicable provider. The File URI is updated automatically based on the location of the file.

You can upload any asset type except for logical clips and title assets.

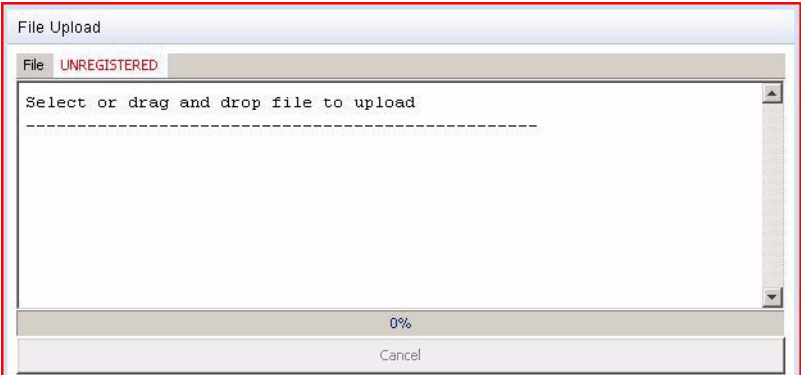
1. To upload a file, first select the Title from the *Title Search Results* screen. Scroll through the Metadata tab view until you reach the File section of the screen.
2. CMS sets the new *File Type* to Original automatically. Any additional files will be set to Historical. If the file is an original, enter ORIGINAL in the **Lookup Key** field.
3. The file's URI location is automatically updated based on the location of the files. Click on the **Upload** button next to the file as shown in the following screen:

Figure 12.23: Upload File



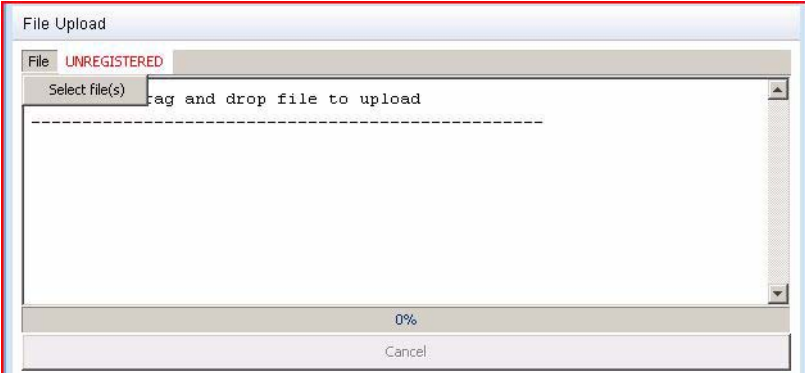
4. The following screen displays:

Figure 12.24: File Upload



5. Click the **File** tab. The screen displays the following:

Figure 12.25: Preview File Upload



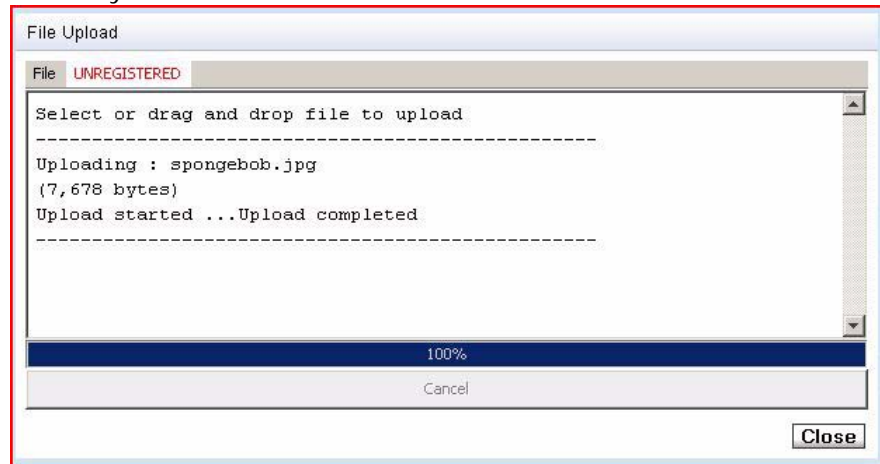
6. Click *Select File(s)*. A new window will open up with a list of available directories and files.

7. Select the desired file(s). The screen will display a message indicating that the file is uploading. When the upload is complete, the screen will display the following:



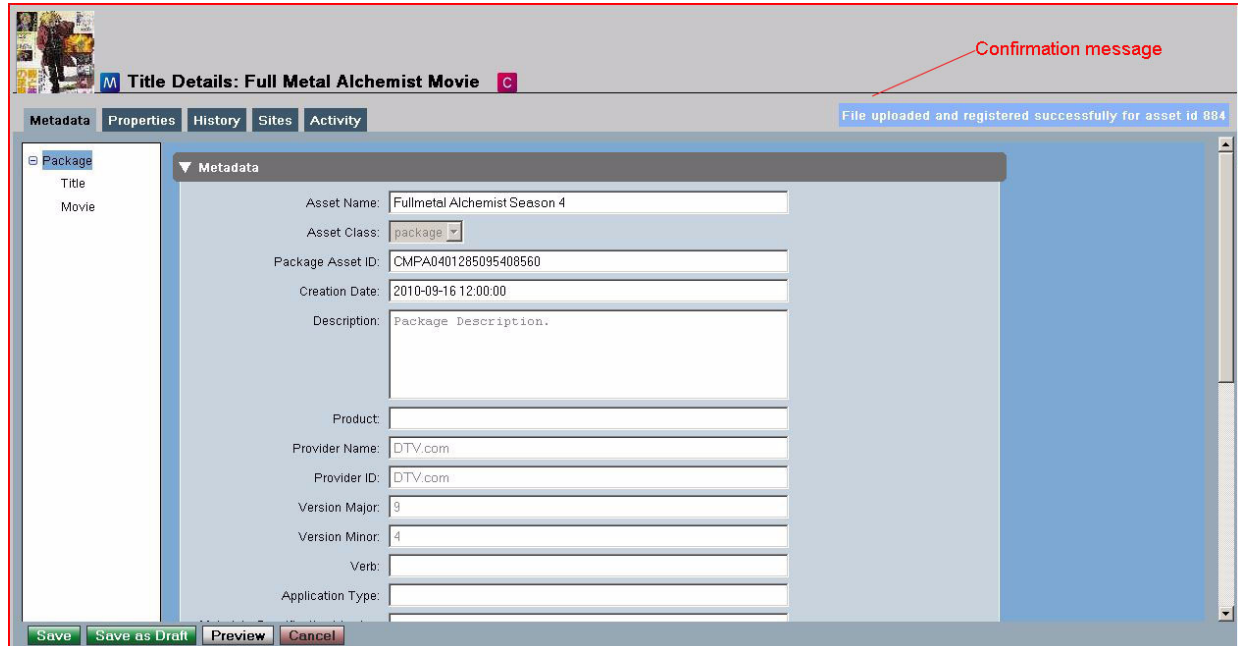
Do not navigate away from the page while the file is uploading or the upload will be automatically canceled.

Figure 12.26: File Uploaded Successfully



8. Click **Close** to close this window. The confirmation message will display as shown below:

Figure 12.27: File Uploaded Successfully



9. After uploading video files, you must set the *Encode Format* to the appropriate format. Enter **mp4** or **FLV** in this field.

Figure 12.28: File Encode Format

Material Id	Check Sum	Encode Format	Encode Profile	Bit Rate	Duration	Parent Id
		mp4				

10. Click **Save** or **Save as Draft** to associate the newly-entered format with the file.

Logging into the Secure Server

Depending on how the CMS administrator configures your system for the secure FTP server, the following login dialog will display each time you attempt to upload a file:

Figure 12.29: Secure FTP Server Login

Enter your user name and password and click **OK**. The *File Upload* screen will display.

Uploading via Drag and Drop

Dragging and dropping a file is the most efficient way to add a thumbnail or other small image file.

1. To drag and drop a file, repeat steps 1 through 5 above.
2. Paste the file into the *File Upload* screen displayed in Figure 12.21. The file will upload and the confirmation will display.

Previewing a Video File

All video files, including historical files, can be previewed. CMS video player supports the following media file formats:

- flv (Flash Video — .flv)
- mp4 (QuickTime container — .mp4, .f4v, .mov, .m4v, .mp4a, .3gp, and .3g2).

An MP4 file (QuickTime container) can contain many different video and audio formats. CMS uses the Wowza Media Server and Flash player for playing video files. These players only support *H.264* (AVC1, MPEG4 Part 10), *AAC* (MP4A, AAC, AAC+, HE-AAC) and *MP3* in an MP4 file. Tools such as *SUPER* (by eRightSoft) can be used to inspect the details of an MP4 video file to determine the video and audio codecs used to make sure they are supported by Wowza Media Server and the Flash player.

For video files with the above supported formats, the *Encode Format* field should be set to the appropriate format, either *flv* or *mp4*.



The previews for video files use a streaming server. The streaming service or server has to be configured to enable access to the video file(s) location or the preview will not work.

1. To preview the video file, first select the Title from the *Title Search Results* screen.
2. Click on the **Movie** or **Preview** asset. Scroll through the Metadata tab view until you reach the File section of the screen. The screen displays the following:

Figure 12.30: Preview File

File Id	File Type	File URI	Lookup Key	Material
179663	Historical	/content/uploaded/DTV.com/2010-09-25-11-49-01/50Mb		
181236	Historical	/content/VideoUploaded58/DTV.com/2010-09-25-12-55-		
184675	Original	/content/VideoUploaded58/DTV.com/2010-09-25-15-10-	ORIGINAL	
184676				

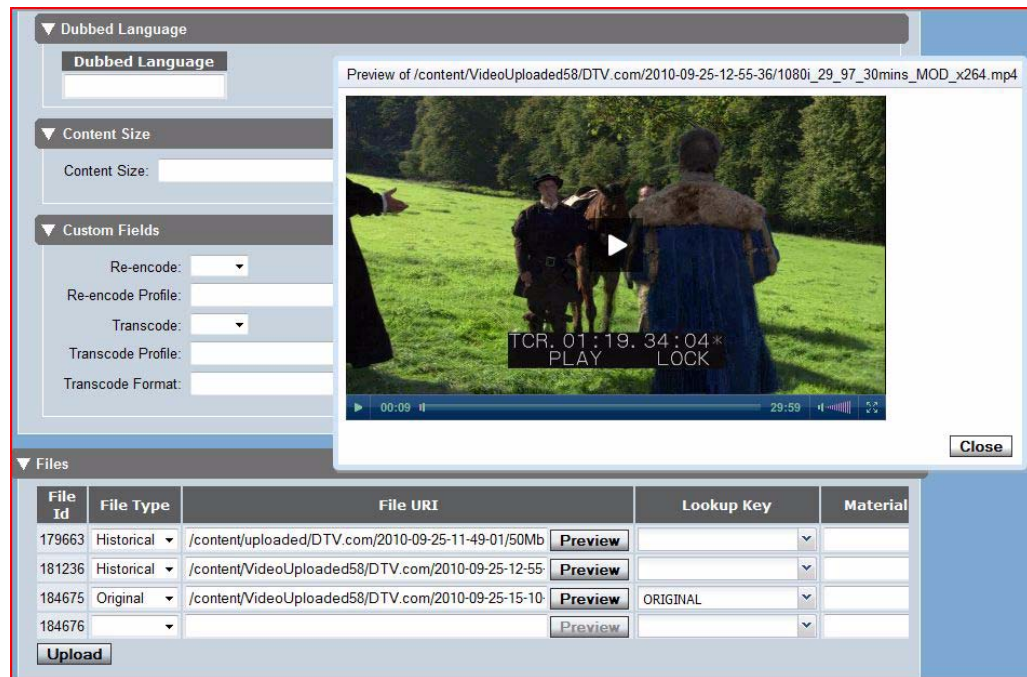
3. Scroll until you get to the **Encode Format** field and make sure that the format is supported.



If the file is not in one of the supported formats, the Preview button will not be enabled.

4. Click on the **Preview** button next to the file. The preview will be displayed in a new window as shown below:

Figure 12.31: Preview File



5. Close the window when you have finished.

Editing an Image File

Image files that have been generated from a video file, such as key frames or snapshots, can be edited. You can also edit an existing image file that you have uploaded from your desktop. The video editor allows you to resize, rotate and crop a video. It also provides a format conversion feature. You can also insert a logo graphic and text information. Box Covers and Posters have this button available. You can also specify the lookup key for this file. For this example, we will edit a Box Cover.

1. To edit the file, click on **Box Cover**. Scroll through the Metadata tab view until you reach the File section of the screen.
2. Click on the **Edit** button as shown in the following screen:



You can only edit files associated with saved Titles.

Figure 12.32: Edit File

Title Details: Full Metal Alchemist Movie - Conqueror of Shamballla (Full English)

Metadata Properties History Sites Activity

Logical Clip
Box Cover

Asset Class: box cover
Asset ID: CMBO0401285269886647
Creation Date: 2010-09-23 12:00:00
Description: Box Full Metal Alchemist Movie 1

Product:
Provider Name: DirecTV
Provider ID: DTV.com
Version Major:
Version Minor:
Verb:
Application Type:
Image Aspect Ratio:
Content Check Sum:
Content Location URI:

Content Size
Content Size:

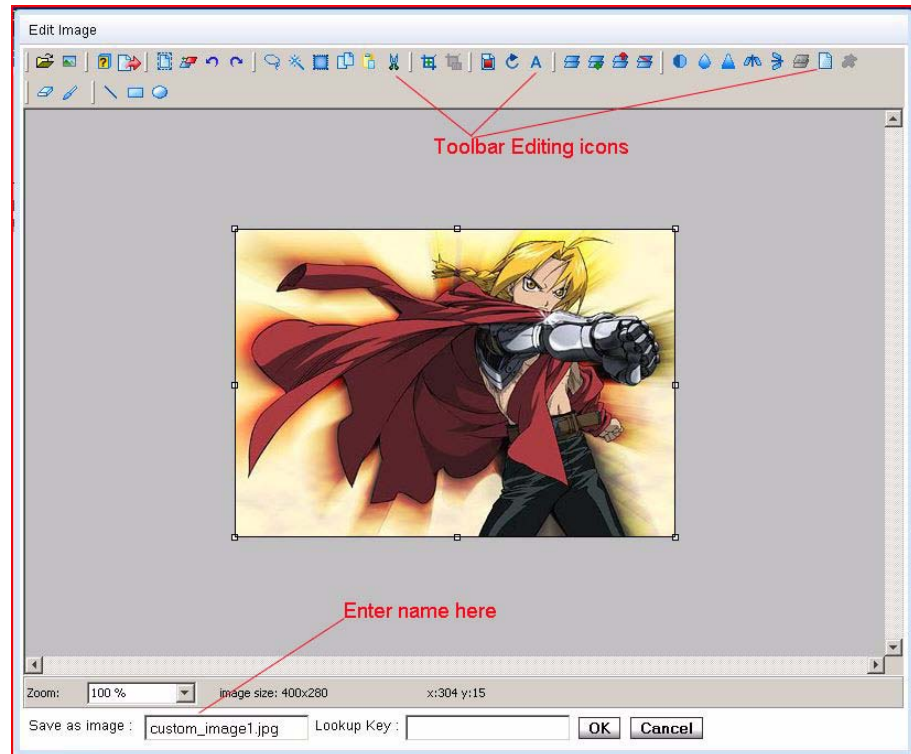
Files

File Id	File Type	File URI	Lookup Key	Material Id
1740	Historical	/content/mapped/QA_Summit.doc_1285269952684/QA_	Preview	Edit
1741	Original	/content/mapped/DTv_Unmapped Testing_clip_2.mpg	Preview	Edit

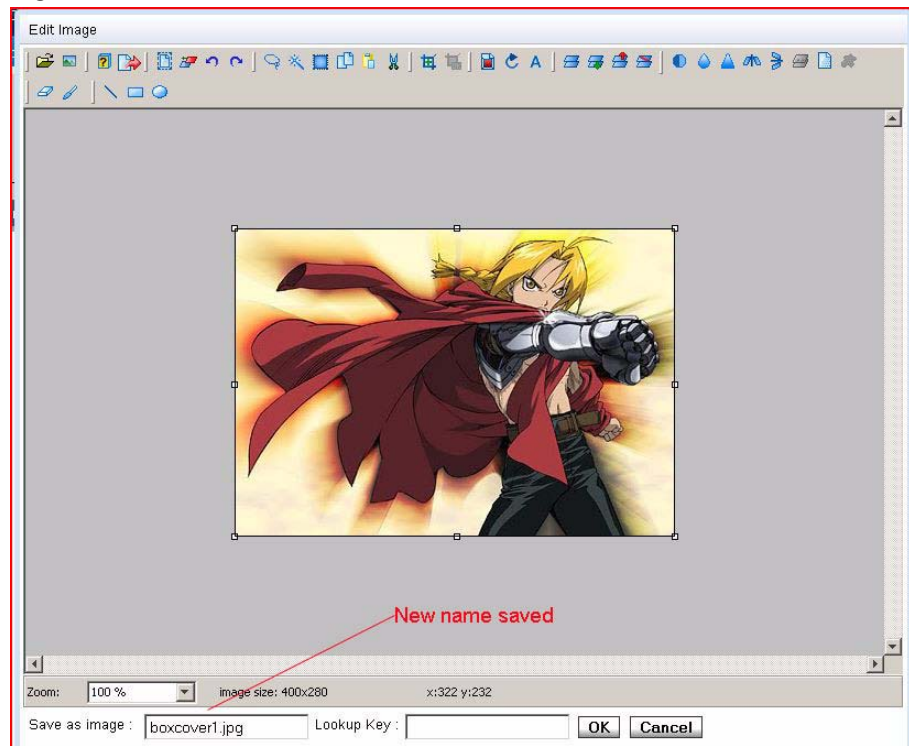
Save Save as Draft Preview Cancel

Click Here

3. The video editing screen displays:

Figure 12.33: Edit Image dialog

4. Use the toolbar options to crop, edit, add text or resize the image.
5. Enter a name for the image in the *Save as image* field. You can save the image as *jpg*, *bmp*, or *gif*.
6. Optionally, enter the Lookup Key. Click **OK**. The screen displays the following:

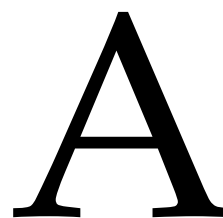
Figure 12.34: Edit Image dialog

-
7. The image is saved with the new name. Click **Save** from the Title Metadata page. The Title Details are saved with the new image file.
 8. Click **Save** again. The Title Details page is refreshed to display the new Image File. The new image will display next to the Box Cover or Poster as shown in Figure 12.21.



You can also preview Box Covers and Posters from this screen.

A P P E N D I X



QUICK SEARCH OPERATORS

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Quick Search Operators

This appendix contains the search operation syntax and descriptions for all supported Quick Search options described in Chapter 4.

Table A.1: Quick Search Operations

Operator	Syntax	Description
Logical AND	(use a space between words)	Displays everything typed in, for example, entering <i>The Big Dog</i> will return every title that contains the words <i>The</i> , <i>Big</i> and <i>Dog</i> .
Logical OR		Displays everything that contains at least one of the words typed, for example, entering <i>The Big Dog</i> displays all titles that contain <i>The</i> or <i>Big</i> or <i>Dog</i>
Logical NOT	X - Y	Displays everything that contains one word but not the other, for example entering <i>Big - Dog</i> will display all titles that contain <i>Big</i> but not <i>Dog</i> .
Hyphen with no space	X-Y	Displays exactly what is typed in, for example, <i>First-Class</i> will display all titles that contain First-Class.
Quotation Marks	"xxx"	Displays everything inside the quotation marks, for example <i>"The Big Dog"</i> will display all titles that contain <i>The Big Dog</i> .
Parenthesis group operations	(x-y)z	Works like an algebraic equation, for example, <i>(The - Big) Dog</i> will display all titles that contain <i>The Dog</i> or <i>Dog</i> but not <i>Big</i> .

Table A.1: Quick Search Operations

Operator	Syntax	Description
Wildcard	xxx*	The wildcard can be used to display two or more characters, for example, <i>Drag*</i> will display titles that include <i>DragQueen</i> and <i>DragRace</i> .
	xx*xx*	The wildcard can also be right and double truncated, for example, <i>Drag*ac*</i> would display titles that include <i>DragRace</i> , <i>DragRacing</i> , and <i>DragRacer</i> .

GLOSSARY OF TERMS

A

Adaptor: Facilitates communication between external resources and WatchPoint, by using WatchPoint Communication Language (WPCL).

Automatic Task: Tasks defined within a work order template that can be executed without any manual action taken.

Asset: Refers to any object that may be required to implement a service. Assets include the “content” of a package, video, audio, still images, application executables, scripts, configurations files, text, fonts, and HTML pages.

B

Barker: A TV channel that is used almost entirely for promotion and advertising, usually marketing various features of the service carrying the channel.

C

Catcher: Device that manages the transfer process of packages from the Pitcher and transmits them to the destination.

CableLabsVOD1.1: Uses the constructs of the CableLabs ADI Specification Asset Structure [ADI2] to specify metadata for the distribution of a Video-On-Demand show from a Provider to one or more cable operators using Video-On-Demand Content Specification Version 1.1.

Content Class: A categorization of the titles within a given domain, used to define default values for metadata fields, drop down list options, and locked fields.

D

Distribution Site: A site used to represent different platforms or other distribution locations. Distributions can be timed, manual, or immediate.

E

External System: Hardware or software element used as a resource in the workflow, including those provided by TANDBERG Television as well as by third parties.

H

Human Resource: Resource type used to represent personnel and users assigned to perform a manual task within the work order template.

I

IPTV: Internet Protocol television; the delivery of programming by video stream encoded as a series of IP packets. IPTV is distributed by a service provider and can be free or fee-based and can deliver either live TV or stored video.

J

Job: Used by CMS to trigger a work order execution on behalf of a partner or service. A job is a set of parameters that determines when and how a work order template is executed.

L

Logical clip: One contiguous part of a parent asset, such as a movie, which contains a short preview with one mark-in and one mark-out point.

Logical Site: A grouping of tracking or distribution sites.

M

Metadata: Electronically archived data that is used to describe the definition, structure and administration of data files with all contents in context to simplify using the captured and archived data for further use. In CMS, it is used to define standards such as CableLabs and MSTV.

MPEG: Moving Pictures Expert Group. MPEG is an international standard for video compression and desktop movie presentation. A special viewing application is needed to run MPEG files on your computer.

MSTV: Microsoft TV which provides integrated audio, video and data services over a single network.

MSO: Multiple System Operator. A company that operates more than one cable network.

O

Object: Another term for a component or application.

P

Package: A package is an entity consisting of a group of assets that is used for distribution of content. It contains one or more assets and metadata. The package is the unit that is transmitted over the distribution interface and is the means by which a version of a product is disbursed.

Partner: Third-party entity that CMS operates on behalf of to facilitate partner-driven workflow. Jobs and schedules are processed on behalf of partners.

PDA: Personal Digital Assistant, a mobile device which functions as a Personal information manager and has the ability to connect to the internet.

Pitch Schedule: List of assets that are to be distributed to a particular destination at a particular time.

Pitcher: The process that receives the created package and sends it to the Catcher device via satellite or Internet/VPN.

Planner: List of assets that will be provided from the source partner at a particular time. The planner drives various work orders such as asset arrival, content processing, and title creation.

Plug-in: A plug-in provides communication between a defined resource and the Watch-Point system.

Portlets: Pluggable user interface software components that are managed and displayed in a web portal.

Pre-Roll: Online video ads that display before the main content.

Provider: A provider represents the business entity that provides content and services. Within CMS Planning, the provider is seen as a source partner.

Post-Roll: The name of an online video commercial that appears at the end of an online video, typically :10 - :15 seconds in length.

R

Resource: External system or entity that is assigned to perform a task or tasks within a work order template. In most instances, this is hardware or software used by the workflow process but also includes personnel performing any in a wide range of tasks including quality control checks, validations, and notifications.

S

Server: A computer system or software that manages and delivers information to client computers.

Service: A service is what is marketed to the viewer by the operator, such as HBO On Demand. Partners associated with the service are also associated with any of the service's assigned jobs and schedules.

Shared Tracking Site: A tracking site that is shared between two or more distribution sites that are using multiple formats.

STB: Set top box, a television device that converts signals to viewable images.

T

Task: Specific action or process within a work order template. A task can be automatic, manual, or looping. Tasks are assigned to resources.

Title: Within CMS, the representation of and reference for the asset content and metadata. The title is used to manage the assets within the system without requiring the presence of the referenced files.

Tracking Site: Keeps track of the status of content and metadata such as where it has been distributed and which content has been distributed.

Trick Mode: Consists of playback operations such as "FFWD", "FREV", "Index", "All", and "Archive". This can be used for pausing live TV, instant replay of interesting scenes, chasing playback where a recording can be viewed before it has been completed, and skipping of advertising.

U

User Task: Tasks defined within a work order template that require human resource to manually execute.

V

VOD: Systems which allow users to select and watch/listen to video or audio content on demand

W

Work Order: An individual instance of a workflow process based on a work order template

Work Order Template: A formal definition of a business process including its flow logic, tasks, and resources

Workflow: The movement of assets or tasks through a work process, or the operational aspect of a work procedure: how tasks are structured, who performs them, what their relative order is, how they are synchronized, how information flows to support the tasks, and how they are tracked.

X

XML: Extensible Markup Language. General purpose specification for creating custom mark-up languages.

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