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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. Open interfaces allow the CMS to integrate with other TTV components and third-party systems related to content management.

System Overview

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

Title: Describes and references the content.

Content Management

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.

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

Content Planning

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

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 the 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 orchestrate the preferred functionality.

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.

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.



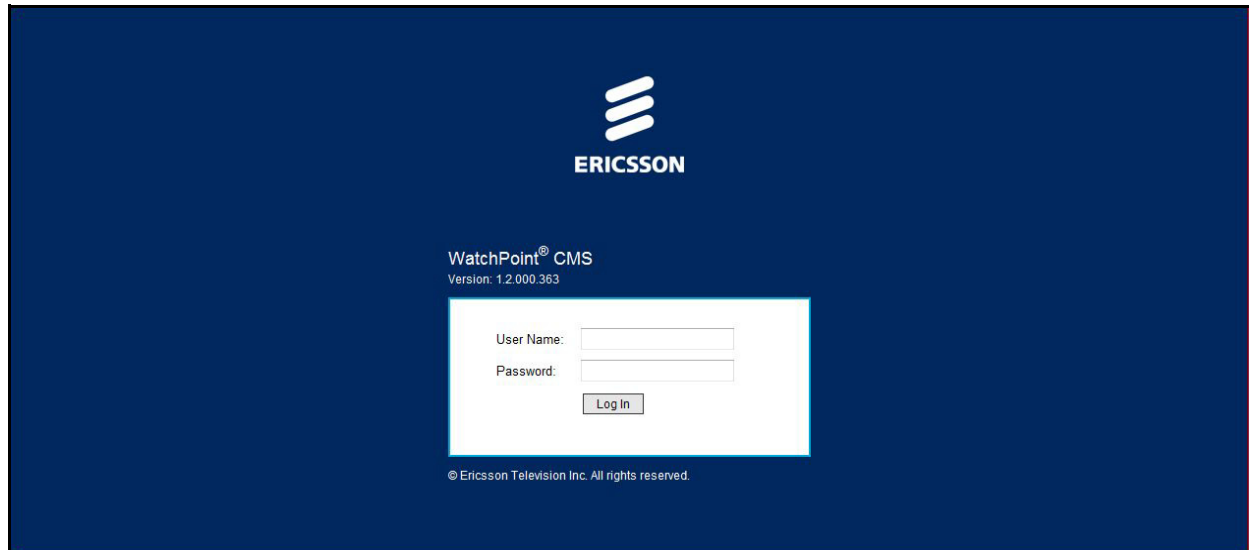
Cautions or warnings describe situations or behaviors that can produce negative results. These represent the items that, if ignored, can potentially have undesired effects on the system.

Accessing the Interface

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

The login page appears. 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

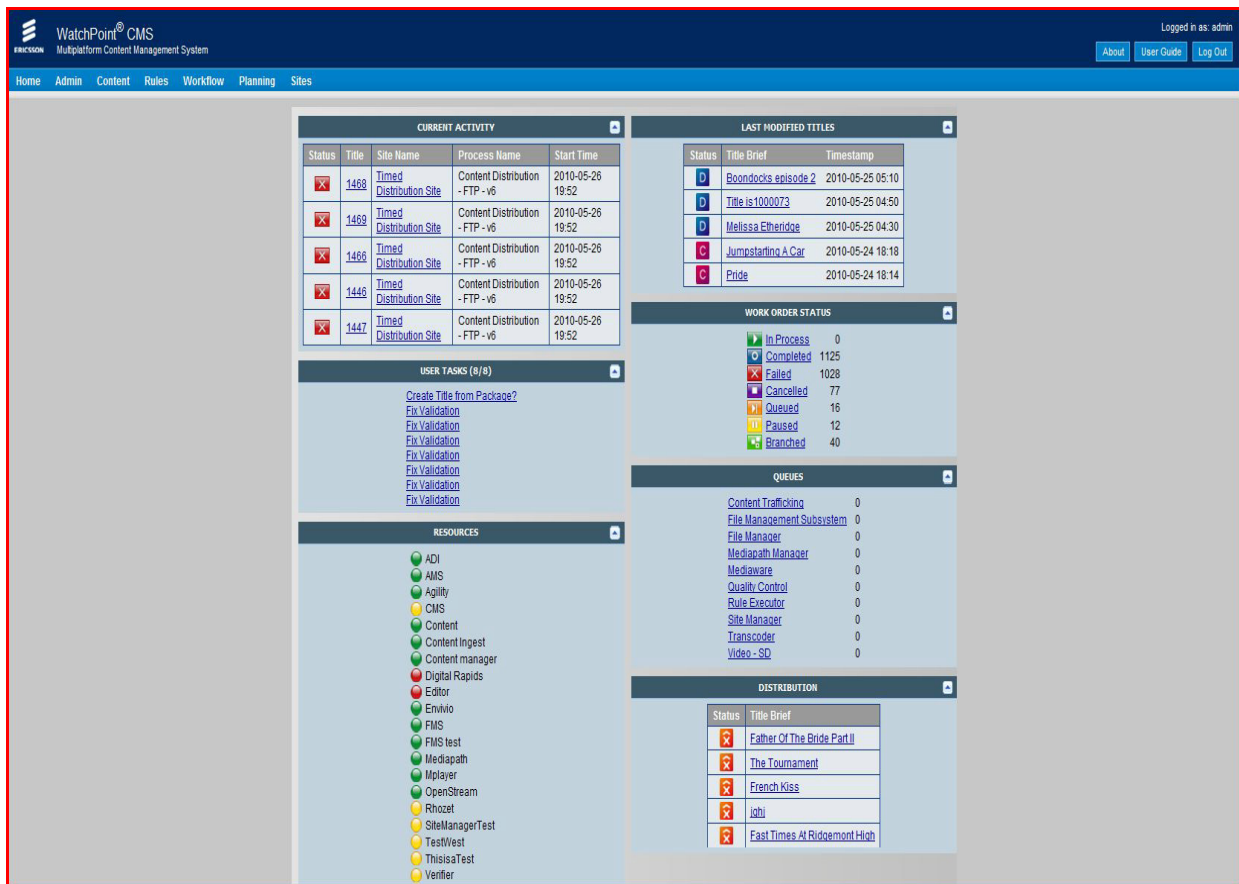
This section helps the user become familiar with the CMS environment. It is recommended that new users review this section before working in the CMS.

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 in any state.
- **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 the 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.

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

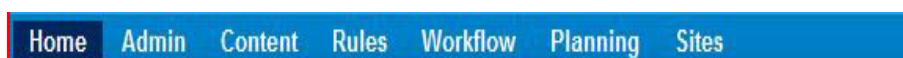


To display details for any of the areas on the home page, click the Up arrow next to the area. To display just the area title, click the Down arrow. The default is to have all details displayed.

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



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.

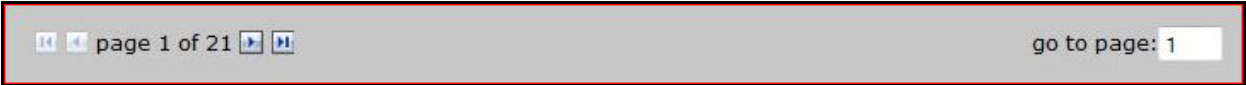
Figure 2.5: Menu Navigation



Results Navigation

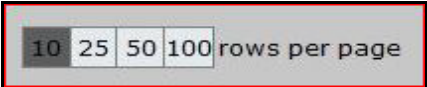
Navigation options are displayed below the listed results. You can jump to the first or last page of results, scroll through each page in sequence, or enter a specific page number to display.

Figure 2.6: Page Navigation



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

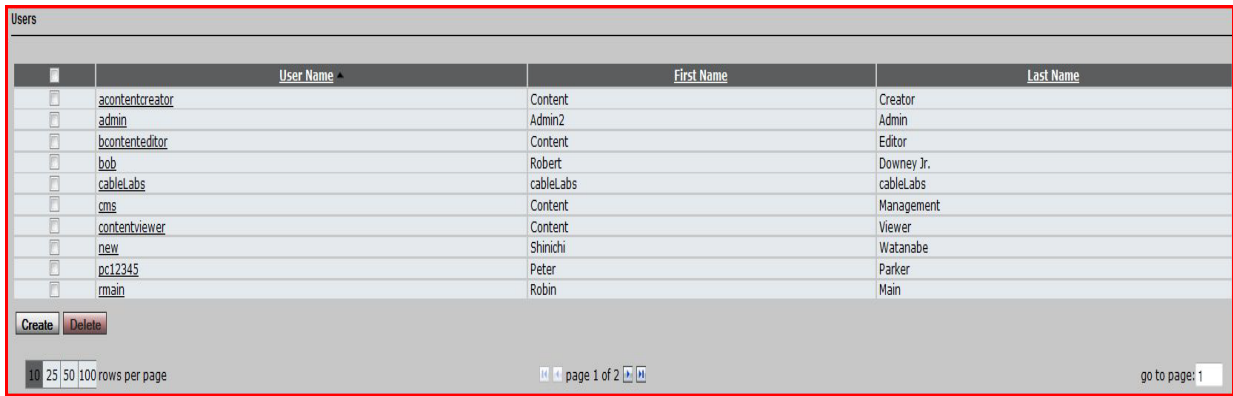
Figure 2.7: Results Per Page



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



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



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 CSV (comma-delimited).

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

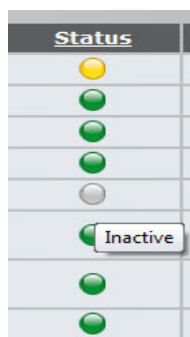


Click the column heading to sort by the column, and to toggle between ascending and descending order. A rectangular box will display next to the heading that the listing is being sorted by. In the sample shown above, the list is being sorted by Resource Name.

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 UI, 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 the workflow processes.
4. Define the resources required for the workflow processes.
5. Integrate the resources using WatchPoint SDK.
6. Build the workflow template, resource types, and resource groups using the WatchPoint Studio.
7. Ingest resource groups and resource types created in WatchPoint Studio.
8. Ingest templates created in WatchPoint Studio.
9. Define source and distribution partners/services.

10. Create jobs, if required.
11. Define validation and normalization rules for titles.
12. Define content process rules.
13. Define Distribution Sites.
14. 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.

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* and *Reporting* functions of the Workflow menu.

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 Planning menu items such as Content Planning, managing Partners, and managing Services.

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

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.
	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

Table 2: Site Icons

	Distribution Site error - the distribution site has encountered an error.
	Logical Site - a grouping of tracking or distribution sites.
	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 SYSTEM 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 read-only user and role called "admin". This user and role cannot be modified.

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				
<input type="checkbox"/>	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				
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
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	
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.

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.
5. Click **Save** to complete. The new definition is added to the Roles page and is available for assignment to a user.

6. To return to the Roles page without saving changes, click **Cancel**.

Modifying a Role

To modify a role:

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

Figure 3.3: Modifying a Role

Module	Permissions
Home:	<input type="checkbox"/> Dashboard
Jobs:	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Create <input type="checkbox"/> Delete <input type="checkbox"/> Modify
Monitoring:	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Create <input type="checkbox"/> Delete <input type="checkbox"/> Modify
Partners:	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Create <input type="checkbox"/> Delete <input type="checkbox"/> Modify
Plugins:	<input checked="" type="checkbox"/> View
Reporting:	<input checked="" type="checkbox"/> View
Resource Management:	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Create <input type="checkbox"/> Delete <input type="checkbox"/> Modify
Role Management:	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Create <input type="checkbox"/> Modify <input type="checkbox"/> Delete
Rules Management:	<input checked="" type="checkbox"/> View <input checked="" 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
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
User Management:	<input checked="" type="checkbox"/> View <input type="checkbox"/> Create <input type="checkbox"/> Modify <input type="checkbox"/> Delete
User Tasks:	<input checked="" 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

2. From the Roles Detail page, select or clear check boxes to change permissions.
3. 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.
4. 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.

The user admin screen contains a link to associate content providers. Clicking this link displays the list of content providers associated with the user. The User has the option to associate or disassociate content providers.

Viewing Users

To view a user:

1. 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

Create Delete

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

To create a new user:

On the Users page, click **Create**

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:

Save

Cancel

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



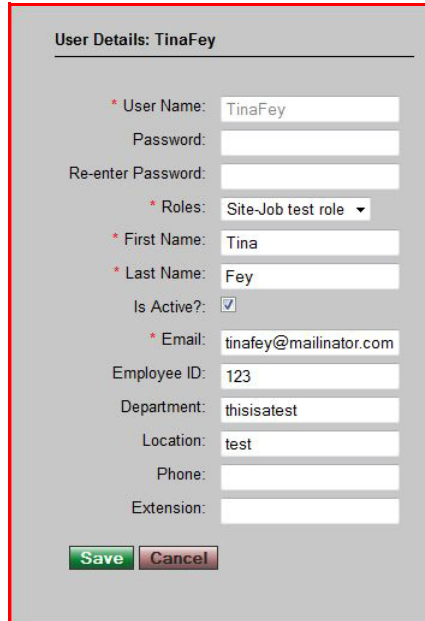
The password must contain at least 6 characters and 1 digit and cannot be the same as the user name.

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



The image shows a 'User Details' form for a user named TinaFey. The form contains the following fields: User Name (TinaFey), Password, Re-enter Password, Roles (Site-Job test role), First Name (Tina), Last Name (Fey), Is Active? (checked), Email (tinafey@mailinator.com), Employee ID (123), Department (thisisatest), Location (test), Phone, and Extension. At the bottom are 'Save' and 'Cancel' buttons.

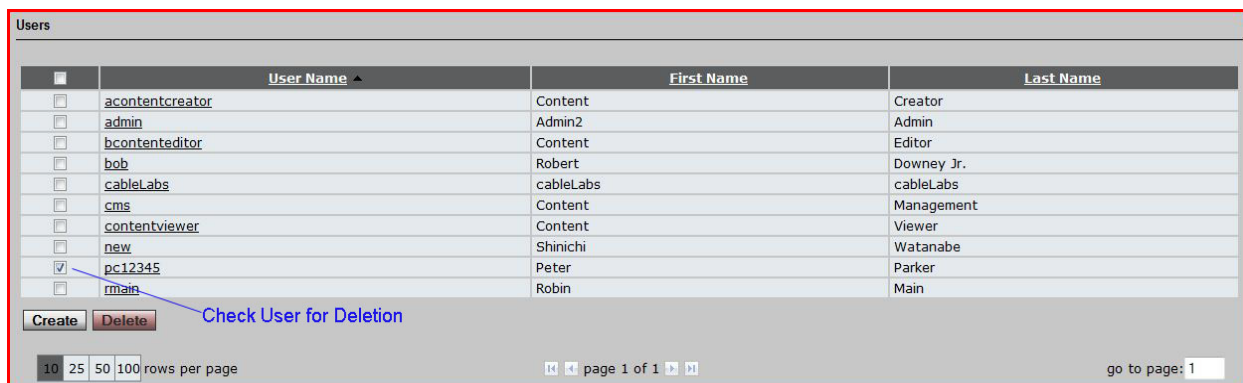
2. Edit user information, reset passwords, reassign roles (permissions), or change user status.
3. Click **Save**. Changes are saved.
4. To return to the Roles page without saving changes, click **Cancel**.

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



The image shows a table of users with columns for checkboxes, User Name, First Name, and Last Name. The user 'pc12345' is selected. Below the table are 'Create' and 'Delete' buttons. A blue arrow points from the text 'Check User for Deletion' to the 'Delete' button.

	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"/>	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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Introducing Titles

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 the 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 the 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 the CMS

In this scenario, a message from ADIServer (a component in CMS) is sent, which exposes an ADI interface for provisioning packages. If the package is not found and it 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. These will be described in the Title Icons section.

Searching Titles

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

1. Create a search criteria on the search page. Click **Search**.
2. 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.
3. Edit a saved search and then click **Search**.

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:

1. Package is missing content
2. Package is NOT missing content
3. Movie AND/OR Preview AND/OR Poster (individually selected) is missing content
4. Movie AND/OR Preview AND/OR Poster (individually selected) is NOT missing content
5. 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.

To search titles:

1. From the **Content** menu, select **Search**. The *Saved Searches* screen displays.
 - To search using filtering criteria, click the **Advanced** button.
 - Click the **Add Filter Criteria** button. The screen displays the following:

Figure 4.1: Search Title Library

Search

Saved Searches Show All Go Basic

Not [] Equals [] -

AND [] + []

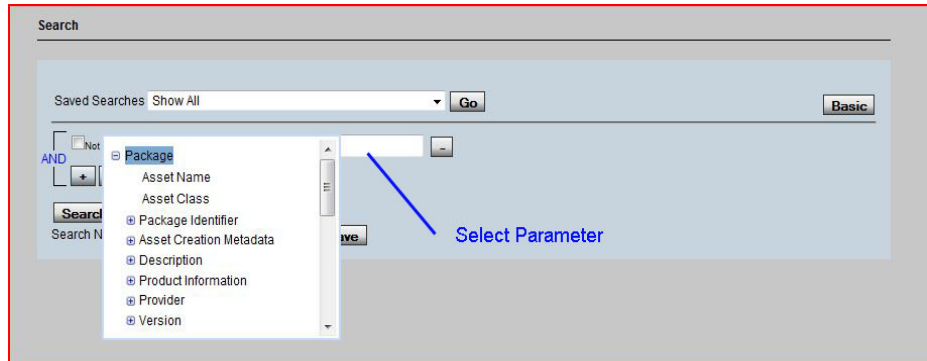
Search

Search Name: [] Share Save

2. To find all titles, click **Search**.

3. 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.

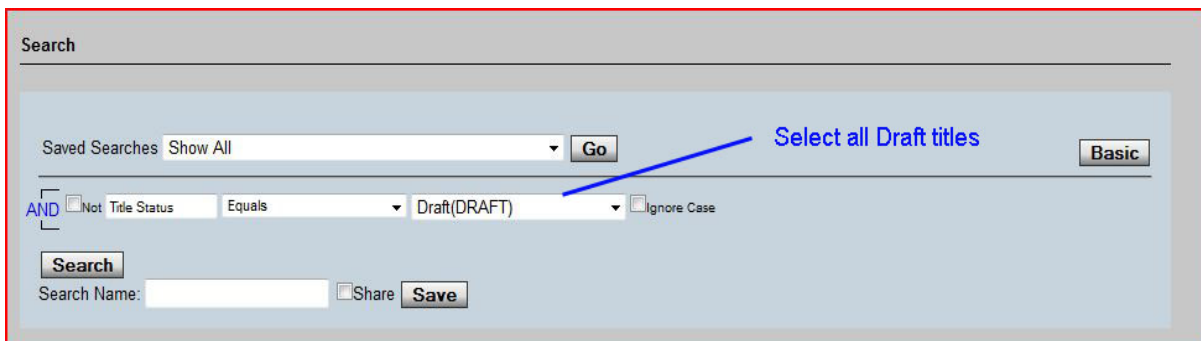
Figure 4.2: Metadata Fields



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

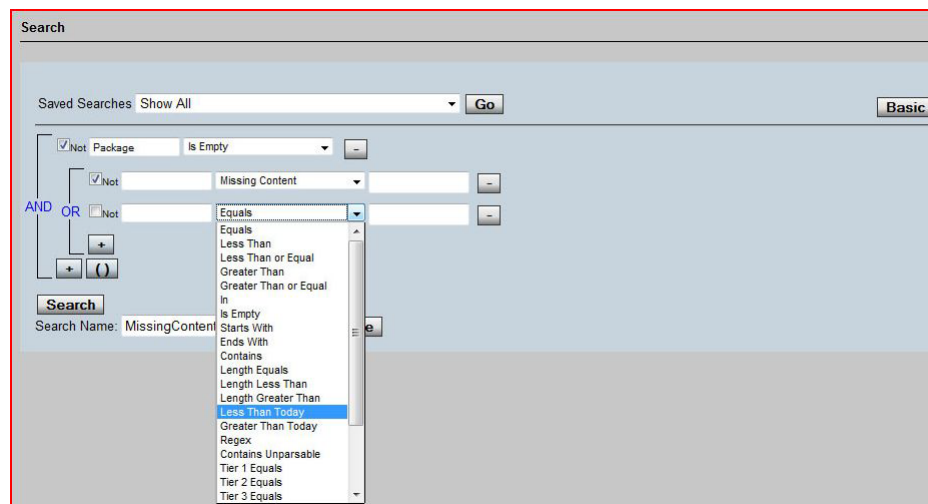
4. Select a field to match, and then select an operator from the drop-down list. Only operators appropriate to the selected field are displayed.

Figure 4.3: Choose Operator



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

Figure 4.4: Search with Child Processes



This list is an example of possible information that can be displayed:

- *ID* – Unique ID for the title. A sequential integer that is generated by the 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.
- *Asset ID* – Asset ID 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.

Saving the Title Search

- If you wish to save the previously executed search, enter a name for the search in the *Search Name* field. For the example shown above, it could be *Draft-Titles*, since it was searching for all draft titles.
- Click **Save**. The “*Successfully saved title search*” message is displayed.
- If you wish to share this search, check the *Share* box prior to saving.
- You can then search again by clicking the **Search** button, or by selecting the newly-created *Draft-Titles* from the drop-down menu.

For more details on saved searches, see the *Saved Search Options* section later on in this document.

Sorting the Search Results

Search Results can be sorted by metadata for any asset type. 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, Asset ID, License start and License end. To toggle the listing between ascending or descending order, click on the arrow. The sort options are displayed in the following screen:

Figure 4.5: Sort Search Results

Title Brief ▲	Asset ID	Major Version	License Start	License End	Matching Value
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 Thunderstruck from 1991. Screaching vocals...
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.
Full Metal Alchemist Movie	CMPA0401285095408560				Full Metal Alchemist Movie
Full Metal Alchemist Movie - Conqueror of Shamballa (Full English)	CMPA0401285093689335				Full Metal Alchemist Movie - Conqueror of Shamballa (Full English)

page 1 of 1 go to page: 1

This screen shows a title list sorted by the Title Brief field in ascending order.

Managing Titles

Six actions are available from the drop-down list shown below the Search Results screen: **Delete**, **Run Template**, **Add to existing title list**, **Bulk Edit**, **Target Titles** and **Add to existing pitch schedule**.

To manage titles:

1. Use the checkbox to select one or more packages.
2. Select the option from the drop-down list.
3. Click **Go**.

Figure 4.6: Title Options

Titelists Details: test

* Name: WorkoutMix

Description: Validated titles only in this list

				Title Brief	Asset ID	Major Version	License Start	License End
<input checked="" type="checkbox"/>	1035	READY		modE2E	EEDP0909090909090909	1	2009-11-18T00:00:00	2010-11-30T00:00:00
<input checked="" type="checkbox"/>	1028	READY		hari became pot	XPPK0303030303030303	4	2009-11-13T00:00:00	2010-02-27T00:00:00
<input checked="" type="checkbox"/>	1007	DRAFT		HAHAHHAH	XPPK0101010101010101	4	2009-11-01T00:00:00	2011-11-01T00:00:00
<input checked="" type="checkbox"/>	996	COMMITTED		Demo Title 4	XPPK0001177539262940	1	2008-08-31T00:00:00	2058-08-31T00:00:00
<input checked="" type="checkbox"/>	994	READY		automation_The Counterfeiters	XPPK1111100000022386	1	2010-08-07T00:00:00	2050-09-25T00:00:00
<input checked="" type="checkbox"/>	992	COMMITTED		New 2008 Silverado	GMGM2008010700000770	1	2008-01-07T00:00:00	2008-02-28T23:59:59

Save Add Title(s) Remove Title(s) Cancel

Deleting Titles

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

Figure 4.7: Delete Titles Confirmation

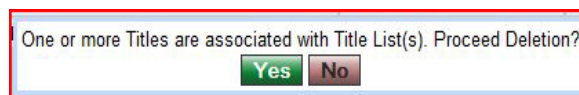
Confirm action: Delete on selected item(s)

Yes No

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

If one or more titles are associated with the title you wish to delete, another message will display.

Figure 4.8: Delete Associated Titles Confirmation



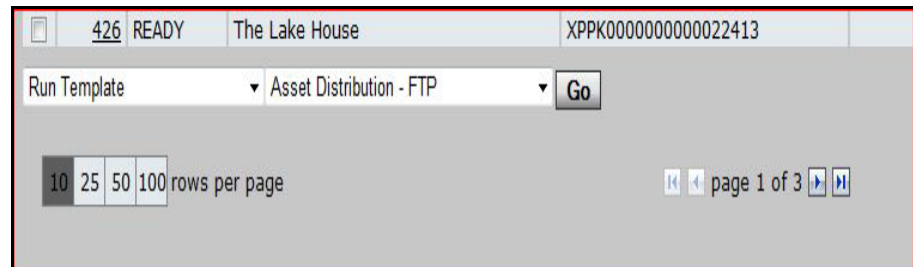
Click **Yes** or **No**. A message confirming the choice is displayed.

Run Template

To run a template:

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

Figure 4.9: Run Template Options



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

Figure 4.10: Scheduled Work Orders Confirmation

Search Results							
Scheduled work orders for title(s): 117740, 117739							
	<u>ID</u>	<u>Status</u>	<u>Title Brief</u>	<u>Asset ID</u>	<u>Major Version</u>	<u>License Start</u>	<u>License End</u>
	117863	COMMITTED	ATL at MIN 11-24	NBAP1000000000000saF	1	2007-11-25T00:00:00	2007-11-25T23:59:59
	117861	COMMITTED	ATL at MIN 11-24	NBAP10000000000006142	1	2007-11-25T00:00:00	2007-11-25T23:59:59

Adding to Title List

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

Adding to Pitch Schedule

This action is initiated during schedule management. Refer to the *Adding/Removing Titles* section in Chapter 9.

Bulk Edit

This feature allows you to select multiple titles 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 titlelists you wish to edit from the list.

Figure 4.11: Bulk Edit Option

Search Results			
	<u>ID</u>	<u>Status</u>	<u>Title Brief</u> ▼
<input checked="" type="checkbox"/>	47	C	
<input checked="" type="checkbox"/>	45	C	
<input checked="" type="checkbox"/>	2	C	
<input checked="" type="checkbox"/>	1	C	
<input type="checkbox"/>	41	D	tears into the old
<input type="checkbox"/>	36	C	tears into the old
<input type="checkbox"/>	35	C	tears into the old
<input type="checkbox"/>	20	C	PVN 03/05/07
<input type="checkbox"/>	19	C	PVN 02/22/07
<input type="checkbox"/>	16	C	PVN 02/16/07

Bulk edit ▼ Go

3. Select **Bulk Edit**. The title metadata form page displays with all the available metadata that has been configured for Bulk Edit.

Figure 4.12: Bulk Edit Metadata

Bulk Edit:[47, 45, 2, 1]

Metadata History Sites Activity

Package
Title

▼ Metadata

Asset Name: ☐ Nullify

Asset Class: ☐ Nullify

Creation Date: ☐ Nullify

Description: ☐ Nullify

Product: ☐ Nullify

Provider Name: ☐ Nullify

Version Major: ☐ Nullify

Version Minor: ☐ Nullify

▼ Custom Fields

Platform: ☐ Nullify

Save All Save All as Draft Save with Current Status Cancel

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

- 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 4.13: Bulk Edit Titles Changed to Draft

Search Results

The following titles have been edited:[47, 45, 2, 1]

	Id	Status	Title Brief
<input type="checkbox"/>	47	D	
<input type="checkbox"/>	45	D	
<input type="checkbox"/>	2	D	
<input type="checkbox"/>	1	D	
<input type="checkbox"/>	41	D	tears into the old
<input type="checkbox"/>	36	C	tears into the old
<input type="checkbox"/>	35	C	tears into the old
<input type="checkbox"/>	20	C	PVN 03/05/07
<input type="checkbox"/>	19	C	PVN 02/22/07
<input type="checkbox"/>	16	C	PVN 02/16/07

Bulk edit Go

- 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 above and below, the titles would remain in the Committed state.

Figure 4.14: Bulk Edit Titles Keep Status

Search Results

The following titles have been edited:[47, 45]

	Id	Status	Title Brief
<input type="checkbox"/>	47	C	
<input type="checkbox"/>	45	C	
<input type="checkbox"/>	2	D	
<input type="checkbox"/>	1	D	
<input type="checkbox"/>	41	D	tears into the old
<input type="checkbox"/>	36	C	tears into the old
<input type="checkbox"/>	35	C	tears into the old
<input type="checkbox"/>	20	C	PVN 03/05/07
<input type="checkbox"/>	19	C	PVN 02/22/07
<input type="checkbox"/>	16	C	PVN 02/16/07

Bulk edit Go

- To cancel editing, click **Cancel**. The Search results screen re-displays.



Currently the product supports Bulk Edit only for metadata which has cardinality = 1

Targeting Title(s)

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

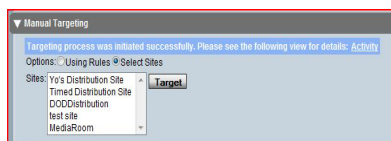
Select *Target Titles* from the drop-down list. A drop down list displays the available distribution sites.

Figure 4.15: Target Titles Site List



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

Figure 4.16: Target Titles Confirmation



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

Figure 4.17: Scheduled Targeting for Titles Confirmation

Search Results									
Scheduled targeting for title(s): 1824, 1107, 1096									
	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End		
<input type="checkbox"/>	1824	D	Lee Wins	EEDP0909090909090900	66	2010-05-27T12:00:00	2010-12-02T12:00:00		
<input type="checkbox"/>	1822	C		KinjalTest	1				
<input type="checkbox"/>	1820	C		SimpleTitle	1				
<input type="checkbox"/>	1116	D	Melissa Etheridge	9797979797979797	766	2010-05-25T12:00:00	2011-02-23T12:00:00		
<input type="checkbox"/>	1115	D	Title is1000073	BSPK0001000000000010	1	2010-05-24T09:50:00	2010-05-25T09:50:00		
<input type="checkbox"/>	1109	C							
<input type="checkbox"/>	1107	D	Tribute to Liza Minnelli	dwe9a1058d0b749ef858760efec551f7		2010-03-25T08:40:00	2010-04-01T08:40:00		
<input type="checkbox"/>	1106	A	Test tape 1.0	XPPK000117539262937	1	2007-01-01T00:00:00	2018-01-01T00:00:00		
<input type="checkbox"/>	1104	C							
<input type="checkbox"/>	1096	D	Boondocks episode 2	9999666677778888		2010-05-24T12:00:00	2011-06-09T12:00:00		

Creating Titles

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

1. From the **Content** menu, select **Create**.

Figure 4.18: Create Title

The screenshot shows the 'Title Details' form with the following fields and sections:

- Metadata:**
 - Asset Name:
 - Asset Class:
 - Package Asset ID:
 - Creation Date:
 - Description:
 - Product:
 - Provider Name:
 - Provider ID:
 - Version Major:
 - Version Minor:
 - Verb:
 - Application Type:
 - Metadata Specification Version:
- Provider Content Tier:**
 - Provider Content Tier:
- Custom Fields:**
 - Archive Type:
- Files:**

File Id	Lookup Key	Material Id	File URI	Check Sum	Encode F
---------	------------	-------------	----------	-----------	----------

Buttons at the bottom: Save, Save as Draft, Preview, Cancel.

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



It is recommended you enter metadata values before saving the title the first time.

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 4.24: 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.

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

Editing Metadata

Title metadata can be viewed and updated manually by the user within the GUI.

To edit metadata:

1. From the **Content** menu, select **Search**. Select the search options to display the Search Results page.
2. Find the title from the Search Results and click the **ID** from the title list.

Figure 4.25: Select Title

Search Results							
	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	1115	D	Title is1000073	BSPK0001000000000010	1	2010-05-24T09:50:00	2010-05-25T09:50:00
<input type="checkbox"/>	1109	C					
<input type="checkbox"/>	1107	C		dwe9a1058d0b749ef858760efce551f7		2010-03-25T08:40:00	2010-04-01T08:40:00
<input type="checkbox"/>	1106	R	Test tape 1.0	XPPK0001177539262937	1	2007-01-01T00:00:00	2018-01-01T00:00:00
<input type="checkbox"/>	1104	C					
<input type="checkbox"/>	1096	D	Boondocks episode 2	9999666677778888		2010-05-24T12:00:00	2011-06-09T12:00:00
<input type="checkbox"/>	1095	R	modE2E	EEDP0909090909090909	1	2009-11-18T00:00:00	2010-11-30T00:00:00
<input type="checkbox"/>	1094	C	Pride	6667778686868686	10	2010-05-14T12:00:00	2010-10-13T12:00:00
<input type="checkbox"/>	1035	R	modE2E	EEDP0909090909090909	1	2009-11-18T00:00:00	2010-11-30T00:00:00
<input type="checkbox"/>	1028	D	hari became pot	XPPK0303030303030303	4	2009-11-13T00:00:00	2010-02-27T00:00:00

Delete

Go

10 25 50 100 rows per page

page 1 of 73

go to page: 1

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

Figure 4.26: Title Metadata

Title Details: Nurse Jackie

The title has been successfully saved

MetadataHistorySitesActivity

Package

Title

Movie

▼ Metadata

Asset Name: moviePackage

Asset Class: package

Package Asset ID: XPPK0001177539262937

Creation Date: 2007-04-25 00:00:00

Description: moviePackage

Product: MOD

Provider Name: DIRECTV

Provider ID: directv.com

Version Major: 1

Version Minor: 0

Verb:

Application Type: MOD

Metadata Specification Version: CableLabelVOD1.1

▼ Provider Content Tier

Provider Content Tier

▼ Custom Fields

Archive Type:

Platform:

▼ Files

File	Lookup Key	Material Id	File URI	Check Sum	Encode

SaveSave as DraftPreviewCancel

3. Enter values.
4. To remove content, click the delete icon to the right of the field.
5. To preview the XML, click **Preview**. Click **Cancel** to return to the title edit page when done previewing.
6. Click **Save** to run the validation rules. A confirmation page is displayed.
- If 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.

Figure 4.27: Title Saved Confirmation

Metadata History Sites Activity

Package
Title
Movie

▼ Metadata

Asset Name: Dodgers vs Yankees game 2
Asset Class: package
Package Asset ID: Jeff0008
Creation Date: 2010-05-01 12:00:00
Description: Dodgers vs Yankees
Product: baseball
Provider Name: ESPN
Provider ID: espn.com
Version Major: 45
Version Minor: 6
Verb:
Application Type:
Metadata Specification Version:

▼ Provider Content Tier
Provider Content Tier

Save Save as Draft Preview Cancel

The title has been successfully saved.

Title Saved Message

Viewing a Title's History

For historical and tracking purposes, the 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 4.28: Title History

User	Action	Date	Revision
WatchPoint - Workflow	CREATED	2010-02-01 21:50	1
WatchPoint - Workflow	VALIDATED	2010-02-01 21:50	1

The 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 current revision does not have a link and cannot be viewed in this manner.

Figure 4.29: Past Revision

Title Details: Bring It On

Metadata History Sites Activity

Title Revision .1

Package

- Title
- Movie
- Preview
- Poster
- Box Cover

Metadata

Asset Name: Bring It On

Asset Class: package

Package Asset ID: XPPK0001177539264008

Creation Date: 2010-01-29 00:00:00

Description:

Product: MOD

Provider Name: STARZ

Provider ID: STARZ

Version Major: 1

Version Minor: 0

Verb:

Application Type: MOD

Metadata Specification Version: CableLabsVOD1.1

Provider Content Tier

Provider Content Tier

Custom Fields

Archive Type:

Files

File	Lookup Key	Material Id	File URI	Check Sum	Encode f

Roll Back Compare Preview Cancel

- 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.

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 4.30: Sample Preview Title-CableLabs

Title Details: Wall-E

Metadata History Sites Activity

CableLabsVOD1.1 Title Revision: 2

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

- <ADI>
  - <Metadata>
    <AMS Asset_Class='package' Asset_ID='XPPK0001177539264025' Asset_Name='Wall-E' Creation_Date='2010-01-29' Description='' Product='MOD' Provider='STARZ'
    Provider_ID='STARZ' Verb='' Version_Major='1' Version_Minor='0'/>
    <App_Data App='MOD' Name='Metadata_Spec_Version' Value='CableLabsVOD1.1'/>
  </Metadata>
- <Asset>
  - <Metadata>
    <AMS Asset_Class='title' Asset_ID='XPTL0001177539264025' Asset_Name='Wall-E' Creation_Date='2010-01-29' Description='' Product='MOD' Provider='STARZ'
    Provider_ID='STARZ' Verb='' Version_Major='1' Version_Minor='0'/>
    <App_Data App='MOD' Name='Type' Value='title'/>
    <App_Data App='MOD' Name='Title_Sort_Name' Value='Wall-E'/>
    <App_Data App='MOD' Name='Title_Brief' Value='Wall-E'/>
    <App_Data App='MOD' Name='Title' Value='Wall-E'/>
    <App_Data App='MOD' Name='Summary_Short' Value='In the distant future, a small waste collecting robot inadvertently embarks on a space journey that will ultimately decide the fate of
    mankind.'/>
    <App_Data App='MOD' Name='Rating' Value='G'/>
    <App_Data App='MOD' Name='Run_Time' Value='01:38:00'/>
    <App_Data App='MOD' Name='Display_Run_Time' Value='01:38'/>
    <App_Data App='MOD' Name='Studio' Value='Pixar Animation Studios'/>
    <App_Data App='' Name='Category' Value=''>
    <App_Data App='MOD' Name='Genre' Value='Children,Family'/>
    <App_Data App='MOD' Name='Billing_ID' Value='1101'/>
    <App_Data App='MOD' Name='Licensing_Window_Start' Value='2009-07-24T00:00:00'/>
    <App_Data App='MOD' Name='Licensing_Window_End' Value='2010-02-11T00:00:00'/>
    <App_Data App='MOD' Name='Suggested_Price' Value='1.99'/>
  </Metadata>
- </ADI>

```

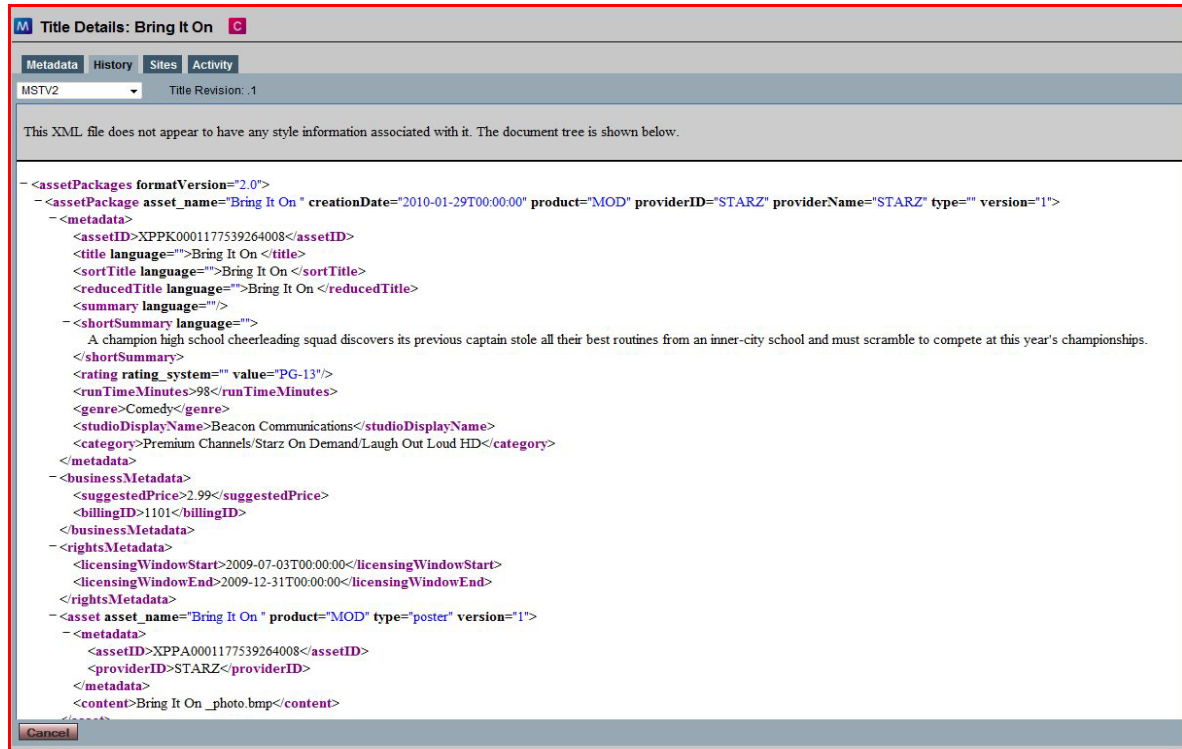
Cancel

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

Click **Cancel** to return to the previous History view.

Select a different specification and click **Preview**.

Figure 4.31: 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.

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

Figure 4.32: Revision Comparison

Title Details: The Princess Diaries

Metadata History Sites Activity

Preview Compare current revision and revision .1

▼ Asset Differences

Asset Type	Asset ID	Provider ID	Difference
Movie	XPMV0001177539264022	STARZ	Metadata different

▼ File Differences

There are no differences in the files

▼ Metadata Differences

Asset Type: Movie Asset ID: XPMV0001177539264022 Provider ID: STARZ

Field Name	Current Revision	Revision .1
Dubbed Language	Spanish	
Language	English	
Subtitle Language	Japanese	

Cancel

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

Figure 4.33: XML Revision Comparison

Title Details: Spongebob works at the Krusty Krab

Metadata History Sites Activity

Report Compare current revision and revision 6

CableLabsVOD1.1

Current Revision

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

- <ADD>
- <Metadata>
  <AMS Asset_Class="package" Asset_ID="Jeff0009" Asset_Name="KrustyKrab"
  Creation_Date="2010-05-01" Description="Mr Krabs gives plankton the krusty krab"
  Product="Nick" Provider="Nickelodeon" Provider_ID="NICK" Verb=""
  Version_Major="66" Version_Minor="8"/>
  <App_Data App="" Name="Metadata_Spec_Version" Value="CableLabsVOD1.1"/>
</Metadata>
<Asset>
- <Metadata>
  <AMS Asset_Class="title" Asset_ID="sponge" Asset_Name="spongebob"
  Creation_Date="2010-05-20" Description="a little yellow sponge lives under the
  sea" Product="" Provider="" Provider_ID="" Verb="" Version_Major=""
  Version_Minor=""/>
  <App_Data App="" Name="Type" Value="title"/>
  <App_Data App="" Name="Subscriber_View_Limit" Value="90"/>
  <App_Data App="" Name="Title_Brief" Value="Spongebob works at the Krusty
  Krab"/>
  <App_Data App="" Name="Title" Value="KrustyKrab"/>
  <App_Data App="" Name="Episode_Name" Value="Spongebob takes over the
  Krusty Krab"/>

```

Revision 6

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

- <ADD>
- <Metadata>
  <AMS Asset_Class="package" Asset_ID="Jeff0009" Asset_Name="blablablah 2"
  Creation_Date="2010-05-01" Description="qqqqqqq" Product="" Provider=""
  Provider_ID="" Verb="" Version_Major="" Version_Minor=""/>
  <App_Data App="" Name="Metadata_Spec_Version" Value="CableLabsVOD1.1"/>
</Metadata>
- <Asset>
- <Metadata>
  <AMS Asset_Class="title" Asset_ID="" Asset_Name="gdsasdasd"
  Creation_Date="" Description="yuiyu" Product="" Provider="" Provider_ID=""
  Verb="" Version_Major="" Version_Minor=""/>
  <App_Data App="" Name="Type" Value="title"/>
  <App_Data App="" Name="Title_Brief" Value="bgfd"/>
  <App_Data App="" Name="Title" Value=""/>
  <App_Data App="" Name="Summary_Short" Value=""/>
  <App_Data App="" Name="Rating" Value="bgfd"/>
  <App_Data App="" Name="Run_Time" Value=""/>
  <App_Data App="" Name="Display_Run_Time" Value=""/>
  <App_Data App="" Name="Billing_ID" Value=""/>
  <App_Data App="" Name="Licensing_Window_Start" Value=""/>

```

Cancel

Click **Cancel** to return to the metadata 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. Click on the **Sites** tab. The screen displays the following:

Figure 4.34: Sites List for Master Title

The screenshot shows the 'Title Details: Bring It On' page with the 'Sites' tab selected. The page is divided into two main sections: 'Status' and 'Manual Targeting'.

Status Section:

Status	Distribution Site	Title Id
M S	test site	1218
M S	Yo's Distribution Site	1078
M S	MediaRoom	1173
M S	Timed Distribution Site	1276

Distribution Site: All

Status	Tracking Site	Title Id	Distribution Site
	Tracking 2	1173	MediaRoom
	Tracking 3	1173	MediaRoom
	Tracking site for MR	1173	MediaRoom
	Tracking 1	1173	MediaRoom
	Tracking 6	1173	MediaRoom
	Tracking 8	1173	MediaRoom
	Tracking 4	1173	MediaRoom
	Tracking 5	1173	MediaRoom
	Tracking 7	1173	MediaRoom
	Tracking 9	1173	MediaRoom

10 25 50 100 rows per page page 1 of 3 go to page: 1

Manual Targeting Section:

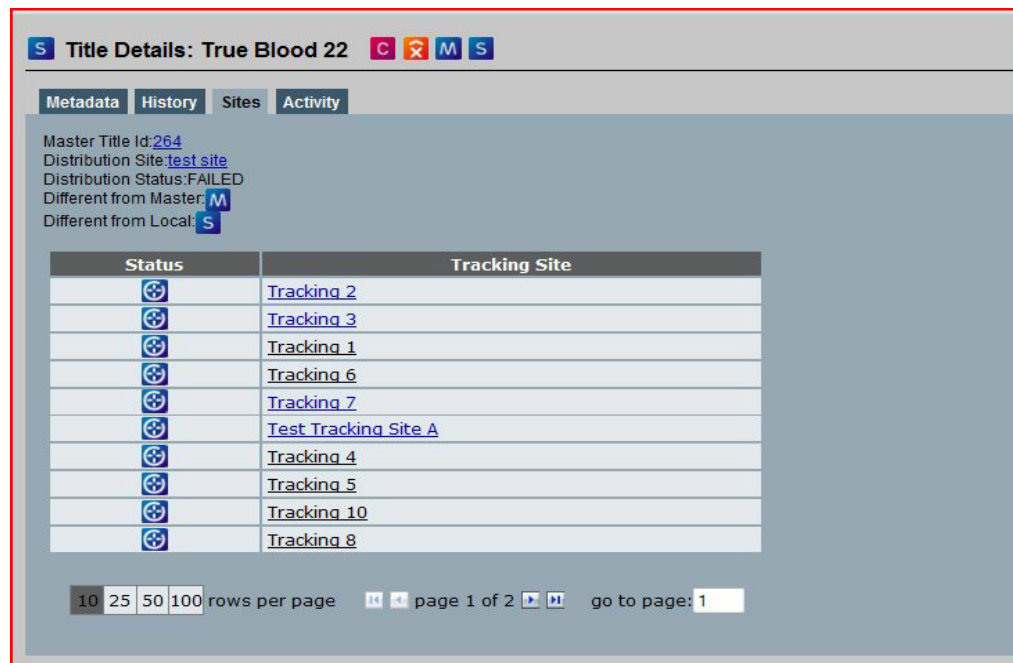
Options: ☐ Using Rules ☒ Select Sites

Sites: [Yo's Distribution Site](#) [Timed Distribution Site](#) [test site](#) [MediaRoom](#)

Target

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 4.35: Sites List for Site Title



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 drop-down. This is the default.
- By using rules

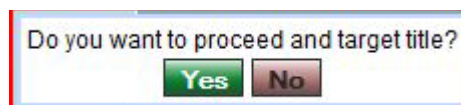
The Manual Targeting pane is displayed below:

Figure 4.36: Manual Targeting Pane



Select the desired site from the drop-down list. Click **Target**. The Confirmation message is displayed.

Figure 4.37: Confirmation Message



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

Figure 4.38: 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. Click on the **Activity** tab. The screen displays the following:

Figure 4.39: List of Activities for Title

M

Title Details: Ashley1027

C

Metadata

History

Sites

Activity

Current


Status	Work Order ID	Current Task	Template	Start Time
<div><div></div></div>	1674	Move to Original File Directory	Asset Ingest - v48	2010-05-24 04:23
<div><div></div></div>	1673	Move to Original File Directory	Asset Ingest - v48	2010-05-24 04:19
<div><div></div></div>	1517	Initialize Variables	Target Title - v9	2010-05-13 14:04

History

Status	Work Order ID	Current Task	Template	Start Time	End Time
<div><div></div></div>	1726	Targeting Complete	Target Title - v11	2010-05-26 00:14	2010-05-26 00:18
<div><div></div></div>	1677	Targeting Complete	Target Title - v11	2010-05-24 04:30	2010-05-24 04:31
<div><div></div></div>	1676	Targeting Complete	Target Title - v11	2010-05-24 04:29	2010-05-24 04:29
<div><div></div></div>	1675	Targeting Complete	Target Title - v11	2010-05-24 04:23	2010-05-24 04:23
<div><div></div></div>	1672	Targeting Complete	Target Title - v11	2010-05-24 04:18	2010-05-24 04:19
<div><div></div></div>	1671	Targeting Complete	Target Title - v11	2010-05-24 04:18	2010-05-24 04:18
<div><div></div></div>	1537	Targeting Complete	Target Title - v9	2010-05-13 14:41	2010-05-13 14:41
<div><div></div></div>	1401	Create Site Title	Target Title - v5	2010-04-21 12:41	2010-05-24 04:18
<div><div></div></div>	1397	Targeting Complete	Target Title - v5	2010-04-20 18:15	2010-04-20 18:27
<div><div></div></div>	1242	End	Asset Ingest - v48	2010-02-03 02:21	2010-02-03 02:21
<div><div></div></div>	1233	End	Asset Ingest - v48	2010-02-03 02:20	2010-02-03 02:21

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

Figure 4.40: View work Order from Targeted Title List

Work Order Tasks 

Tasks **Properties**

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

Tasks

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

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.

Creating a TitleList

To create a title list:

1. From the **Content** menu, select **TitleLists** then **Create**.

Figure 4.41: Create TitleList

Create TitleList

* Name:

Description:

Save **Cancel**

2. Enter a *Name* and optionally a *Description*.
3. 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.
4. Click **Add Title(s)**. The Search page is displayed with the option to select a saved search. This screen is shown below.

Saved Search Options

Figure 4.42: Search by Saved Search

Search

Saved Searches: Show All Go Basic

5. Select a saved search from the drop-down and click **Go**. The screen displays the following:

Figure 4.43: Committed-Only Title List

Search Results

	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	985	C	2007 Torrent	GMGM2008010700000530	1	2008-01-07T00:00:00	2008-02-28T23:59:59
<input type="checkbox"/>	984	C	Check Engine Fluids	GMGM2008010700000700	1	2008-01-07T00:00:00	2018-02-15T12:00:00
<input type="checkbox"/>	982	C	Wall-E	XPPK0001177539264025	1	2009-07-24T00:00:00	2010-02-23T00:00:00
<input type="checkbox"/>	979	C	The Princess Diaries	XPPK0001177539264022	1	2009-08-21T00:00:00	2009-12-31T00:00:00
<input type="checkbox"/>	978	C	Step Brothers	XPPK0001177539264021	1	2009-08-04T00:00:00	2009-12-31T00:00:00
<input type="checkbox"/>	975	C	No Country For Old Men	XPPK0001177539264018	1	2009-08-07T00:00:00	2009-12-31T00:00:00
<input type="checkbox"/>	974	C	Mrs. Doubtfire	XPPK0001177539264016	1	2009-08-14T00:00:00	2009-12-31T00:00:00
<input type="checkbox"/>	973	C	High School Musical 3: Senior Year	XPPK0001177539264015	1	2009-08-21T00:00:00	2009-12-31T00:00:00
<input type="checkbox"/>	972	C	Happy Gilmore	XPPK0001177539264014	1	2009-08-21T00:00:00	2009-12-31T00:00:00
<input type="checkbox"/>	971	C	Hancock	XPPK0001177539264013	1	2009-08-04T00:00:00	2009-12-31T00:00:00

Add to existing title list Go

25 50 100 rows per page page 3 of 70 go to page: 3

6. The search results screen above shows a titlelist that was generated by selecting only *Committed Titles* from the Save Search option. Click the appropriate boxes to select titles.
7. Select *Add to existing titlelist* from the drop-down list.

Figure 4.44: TitleList Details

Titlelist Details: ENCORE

Name: ENCORE

Description: all titles that will go to Encore

	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
<input checked="" type="checkbox"/>	985	COMMITTED	2007 Torrent	GMGM2008010700000530	1	2008-01-07T00:00:00	2008-02-28T23:59:59
<input checked="" type="checkbox"/>	984	COMMITTED	Check Engine Fluids	GMGM2008010700000700	1	2008-01-07T00:00:00	2018-02-15T12:00:00
<input checked="" type="checkbox"/>	978	COMMITTED	Step Brothers	XPPK0001177539264021	1	2009-08-04T00:00:00	2009-12-31T00:00:00
<input checked="" type="checkbox"/>	975	COMMITTED	No Country For Old Men	XPPK0001177539264018	1	2009-08-07T00:00:00	2009-12-31T00:00:00
<input checked="" type="checkbox"/>	974	COMMITTED	Mrs. Doubtfire	XPPK0001177539264016	1	2009-08-14T00:00:00	2009-12-31T00:00:00
<input checked="" type="checkbox"/>	973	COMMITTED	High School Musical 3: Senior Year	XPPK0001177539264015	1	2009-08-21T00:00:00	2009-12-31T00:00:00

Save Add Title(s) Remove Title(s) Cancel

8. 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.

Advanced Search Options

To activate the advanced search options, click the **Advanced** button from the *Saved Search* screen. The screen displays the following:

Figure 4.45: Advanced Search Options

Creating a Saved Search

You can also 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 **Add Filter Criteria**. The following screen displays:

Figure 4.46: Search Criteria

3. Enter the search criteria that you want to save. If you want to share this search with all users on the system, check the *Share* box. The example above shows a search named *Advanced*.
4. Click **Save**. The search will be saved. A confirmation message displays.

Managing the TitleList

Once a titlelist has been created, it can be viewed and modified.

To manage the title list:

1. From the **Content** menu, select **TitleLists** then **View**.

Figure 4.47: View TitleLists

Titlelists		
<input type="checkbox"/>	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	Kinjals test
<input type="checkbox"/>	94	LambertDuets
<input type="checkbox"/>	54	SHO4
<input type="checkbox"/>	83	Tapans Test
Delete <input type="button" value="Go"/>		
10 25 50 100 rows per page		
page 1 of 2		
go to page: 1		

A list is defined by a *Name* and an *ID*.

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

Figure 4.48: Titlelist Details

Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
985	COMMITTED	2007 Torrent	GMGM2008010700000530	1	2008-01-07T00:00:00	2008-02-28T23:59:59
984	COMMITTED	Check Engine Fluids	GMGM2008010700000700	1	2008-01-07T00:00:00	2018-02-15T12:00:00
978	COMMITTED	Step Brothers	XPPK0001177539264021	1	2009-08-04T00:00:00	2009-12-31T00:00:00
975	COMMITTED	No Country For Old Men	XPPK0001177539264018	1	2009-08-07T00:00:00	2009-12-31T00:00:00
974	COMMITTED	Mrs. Doubtfire	XPPK0001177539264016	1	2009-08-14T00:00:00	2009-12-31T00:00:00
973	COMMITTED	High School Musical 3: Senior Year	XPPK0001177539264015	1	2009-08-21T00:00:00	2009-12-31T00:00:00

Save Add Title(s) Remove Title(s) Cancel

- You can optionally modify the list's *Name*, *Description*, and titles.
- You can change the order that the titles are displayed by clicking on the up and down arrow icons.
- After making any changes, click **Save**.
- To return to the Title lists, click **Cancel**.
- To add more titles, click **Add Title(s)**

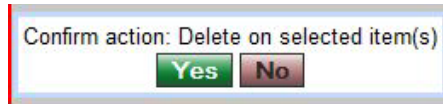
To remove a title from the list:

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

Deleting Titlelists

To delete a Titlelist from the Titlelists page:

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

Figure 4.49: Confirmation Message

If you select Yes, the following message will display:

Figure 4.50: Successfully Deleted Message

If you select No, the following message will display:

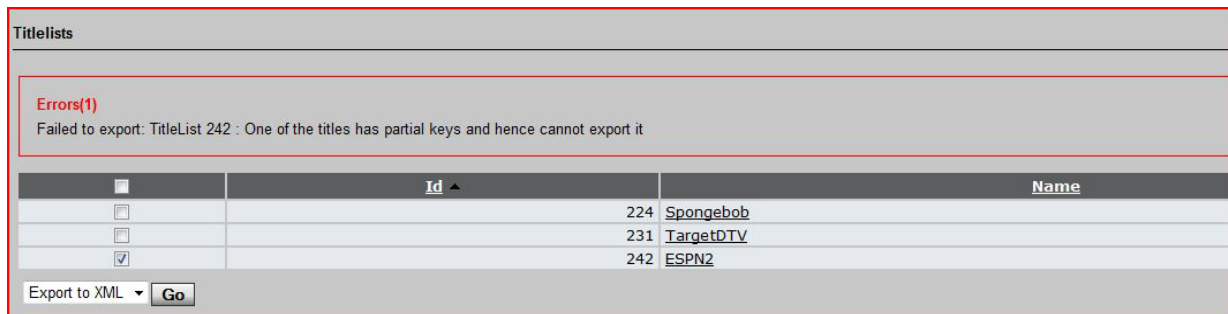
Figure 4.51: Operation Aborted Message

Exporting Titlelists

To export a Titlelist to XML:

6. From the **Content** menu, select **TitleLists** then **View**.
7. Check the box next to the titlelist you want to export. Select **Export to XML** from the drop-down.
8. Click **Go**. The titles will be exported.

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

Figure 4.52: Export Failed Message

Run Titlelist Template

To run a template:

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

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

Sort		System Generated		Enabled or Disabled		UUID	
		ID	Enabled	Rule Set Name	Sites	Update Date	
		3		AU Rating Normalization	ImmediateDist	2010-05-13 14:49:35	8cf13854-b
		4		NZ Rating Normalization rule		2010-05-13 14:49:36	2e3832f6-f
		5		ATT ALL FOD to MOD		2010-05-13 14:49:37	97980c0f-7
		6		ATT CBS NETSHOWS	ChDist4	2010-05-13 14:49:38	fa55ecac-0
		7		ATT CBS NETSHOWS HD		2010-05-13 14:49:39	74841b9a-i
		8		ATT FLIX		2010-05-13 14:49:40	882c74d6-

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.

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

The screenshot shows a 'Title Filter' dialog box. It contains a list of criteria with columns for 'Not', 'Package', and 'Is Empty'. There are buttons for adding child criteria (+) and sibling criteria (O). The 'next>>' button is at the bottom right.

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

The screenshot shows a 'Validation Criteria' dialog box. It contains a 'When this is true:' section with a list of criteria. Below it is a 'Return this' drop-down menu set to 'INFO' and a message text field containing 'package is empty'. There are buttons for 'Delete', 'Create Rule', and 'Add Custom Rule'.

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

OR

Not Package Contains Unparsable

Not Package.Provider Contains Unparsable

Validation Criteria

When this is true:

Not Package Is Empty

AND

OR

Return this INFO message package is empty

Delete

Create Rule Add Custom Rule

Rule Properties

Rule Set Name CheckEmptyPackage ☒ Enabled

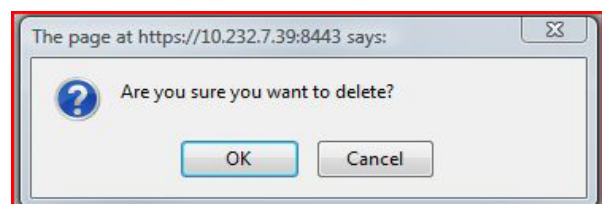
Save Cancel

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

The screenshot shows a web-based wizard titled "Create New Normalization Rule Set". Below the title bar, a message states: "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." A section titled "Event Selection" with a downward arrow contains a list of events, each with an unchecked checkbox: "Ingest", "UI Create", "UI Update", "Schedule", and "Targeted". At the bottom of the wizard, there are two buttons: "<< prev" on the left and "next >>" on the right.

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

AND

Not Package.Provider Contains Unparsable

Not Package.Product In Is Empty

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:

MATCHED.Package.Product Information 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

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

2

When this is true:

☐ Not Package.Product Is Empty -

AND

+

do this:

Package.Description Remove + -

Delete

Reorder Create Rule Add Custom Rule

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

Figure 5.23: Set Rule Properties

Create New Normalization Rule Set

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

Rule Properties

Rule Set Name: ATTNEmptyFields ☒ Enabled

<<prev next>>

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 it's site titles.

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

The screenshot shows a window titled "Create New Content Processing Rule Set". Below the title bar, there is a descriptive text: "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." Below this text is a section titled "Title Filter" with a dropdown arrow. Inside this section, there is a "Not" checkbox, a text input field, a dropdown menu currently showing "Equals", and another text input field. Below these is an "AND" label and a button with a "+" sign. At the bottom of the window are two buttons: "<< prev" and "next >>".

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

The screenshot shows a window titled "Run the following template". Inside, there is a large text area with a dashed border. At the top of this area is a dropdown menu showing "Asset Ingest". At the bottom of the window are two buttons: "<< prev" and "next >>".

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

The screenshot shows a window titled "Rule Properties". Inside, there is a text input field labeled "Rule Name" containing the text "Asset Ingest". To the right of this field is a checked checkbox labeled "Enabled". At the bottom of the window are two buttons: "<< prev" and "next >>".

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

15. 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:

1. 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
<input type="checkbox"/>	5		Targeting Rule - Distribution 3	Distribution 3	2010-05-04 10:53:51	53fa4f67-8696-4df9-bd20-bc0b5cbbb96f
<input type="checkbox"/>	10		Targeting Rule - Jeff	distribution...	2010-05-13 13:33:15	62bbcc2c-0dc8-4a8a-9e4a-7e5066abab21
<input type="checkbox"/>	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"/>						

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

Figure 5.32: Create Targeting Rule Set

Create New Targeting 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 + () -

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. The following screen displays:

Figure 5.33: Targeting Rule Set Title Filter options

▼ Title Filter

Not Package Is Empty

AND + () -

- Package
- Asset Name
- Asset Class
- Package Identifier
- Package Asset ID
- Asset Creation Metadata
- Description
- Description
- Product Information

next >>

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

Figure 5.34: Select Sites for Targeting Rule Set

Create New Targeting 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

Select: All None

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

<< prev next >>

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

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

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.

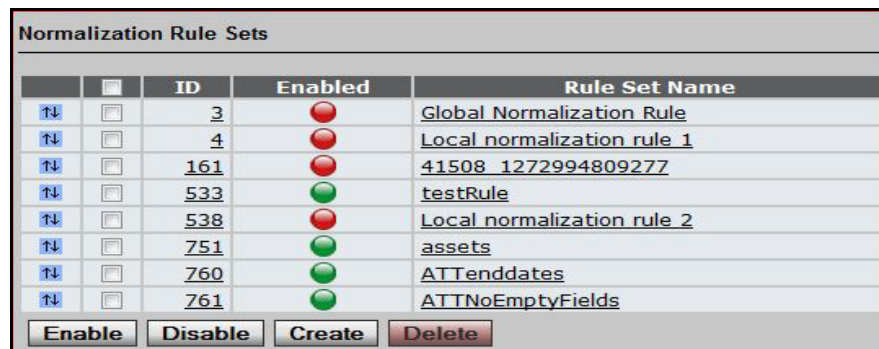
Managing Rule Set Order

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



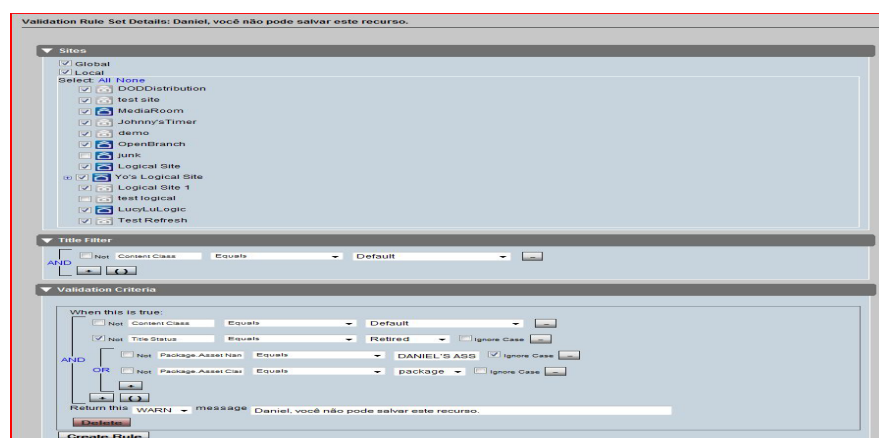
2. Select the blue icon next to the rule check box and move the mouse without releasing the button to drag the rule into the desired location in the list.
3. Enter changes.
4. Click **Save Order**. A confirmation message is displayed.

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



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

MANAGING WORKFLOW

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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.

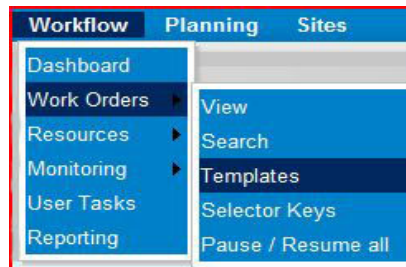
Viewing Available Templates

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**.

Figure 6.1: Accessing Templates



The Template Details page is displayed.

Figure 6.2: Template Details

Templates					
Asset Ingest - v48					
	Name	Timeout	Loops	Protection Key(s)	
START	Start	-NA-		COMMON	
EXECUTION	Initialize Process Variables	-NA-		Parameter	Type
EXECUTION	Make Original File Directory	-NA-		Asset Mapping Message	STRING
CONTENT REPOSITORY	Move to Original File Directory	00:30:00		Asset Mapping Status	BOOLEAN
EXECUTION	Set File Paths	-NA-		Content Folder Path	STRING
DECISION	Is Metadata File?	-NA-		Create Title if not Present?	BOOLEAN
DECISION	Run spec validation?	-NA-		Input File Path	STRING
CONTENT INGEST	Map Metadata to Title	00:05:00		Is Metadata File	BOOLEAN
DECISION	Metadata Mapped?	-NA-		Is Metadata Valid?	BOOLEAN
DECISION	Trusted Provider?	-NA-		Is Provider with Complete Metadata	BOOLEAN
EXECUTION	Set CreateIfNotExist Flag	-NA-		Licensing Window End	DATE
CONTENT INGEST	Map Metadata to Title (Create if Not Exist)	00:05:00		Licensing Window Start	DATE
EXECUTION	Extract Title Id and Mapped Assets	-NA-		Map File Path	STRING
DECISION	Mapped Assets?	-NA-		Mapped Titles	STRING
				Metadata File Path	STRING
				Metadata File UNC Path	STRING
				Metadata Map User	STRING
				Metadata Mapping Status	STRING

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.

- 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 6.3: Creating a Work Order



2. 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.

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

Figure 6.4: New Work Order Parameters Based on Templates

Create Work Order

Work Order Template: Content Normalization - v1

Priority: NORMAL

Work Order Inputs

* Rule Set ID :

Correlation ID :

Status Message :

Error Message :

Save

* Denotes Required Field

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

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

Figure 6.5: 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 6.6: Work Order Tasks Page

Work Order Tasks [icon] [icon]

Tasks | **Properties**

ID: 39659
 Template: [Content Normalization - v1](#)
 Start Time: 2010-05-10 19:49:00
 End Time:
 Operational Status: ERROR
 Admin Status: ERROR

Tasks

	Task Name	Task Status	Start Time	End Time	Status
RULES ENGINE	Execute RuleSet	0%	-NA-	-NA-	ERROR
END	End Rule Execution	0%	-NA-	-NA-	PENDING

Task History

	Task Name	Task Status	Start Time	End Time	Status
START	Start Rule Execution	100%	2010-05-10 19:49:00	2010-05-10 19:49:00	COMPLETED

Retry **Restart** **Cancel Work Order** **Delete**

10 25 50 100 rows per page

page 1 of 1

go to page: 1

- Click **Delete**. A confirmation page displays asking if you want to delete the work order. Click **OK**.
- 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 6.7: Work Order Searching on the Home Page

WORK ORDER STATUS		
	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 6.8: Failed Work Orders

Work Orders 

<input type="checkbox"/>	+	Status	Admin Status	ID <input type="checkbox"/>	Title ID	Title Brief	License Start	License End	Current Task	Template	Start Time	End Time	Protection Key
<input type="checkbox"/>	-			274278	117745				Request To Distribute Title	Target Title - v9	2010-05-15 15:58:02		COMMON
<input type="checkbox"/>	-			274277	117745				Request To Distribute Title	Target Title - v9	2010-05-15 15:57:06		COMMON
<input type="checkbox"/>	-			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
<input type="checkbox"/>	-			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
<input type="checkbox"/>	-			274163	117738				Run Local Content Processing	Target Title - v9	2010-05-14 18:53:32		COMMON
<input type="checkbox"/>	-			274159	117742				Run Local Content Processing	Target Title - v9	2010-05-14 18:53:31		COMMON
<input type="checkbox"/>	-			274155	117745				Request To Distribute Title	Target Title - v9	2010-05-14 18:48:06		COMMON
<input type="checkbox"/>	-			274149	117745				Request To Distribute Title	Target Title - v9	2010-05-14 17:14:56		COMMON
<input type="checkbox"/>	-			274148					Move to Original File Directory	Asset Ingest - v46	2010-05-13 21:09:53		COMMON
<input type="checkbox"/>	-			262361					Map Metadata to Title	Asset Ingest - v46	2010-05-08 09:41:16		COMMON

21464 record(s) found.

CreateRestartCancel Work OrderRetryDelete

102550100 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 6.9: 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 19:51:04	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	HAHAHAH	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

14










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

Figure 6.10: 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 6.11: Search Work Orders Page

The screenshot shows the 'Search Work Orders' interface. It features several search criteria fields: 'ID' (text input), 'Template' (dropdown menu with options: Asset Ingest - v48, Content Distribution - FTP - v6, Content Distribution - Schedule Pitch - v4, Content Distribution - Verify Pitch - v5), 'Operational Status' (dropdown menu with options: In-Process, Completed, Failed, Cancelled), 'Start Date' (calendar icon), 'End Date' (calendar icon), 'Priority' (dropdown menu with options: Lowest, Low, Normal, High), and 'Protection Key' (dropdown menu with options: Adult, Common, Non-adult). A 'Search' button is located 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 6.12: 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 89.
- *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 6.13: View Work Order Tasks

WatchPoint® CMS
Multiplatform Content Management System

Logged in as: admin

Home Admin Content Rules Workflow Planning Sites

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 6.14: View Work Order Task Details

WatchPoint® CMS
ERICSSON Multipatform Content Management System

Logged in as: admin

About User Guide Log Out

Home Admin Content Rules Workflow Planning Sites

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 6.15: 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 6.16: View Work Order Properties

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

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.

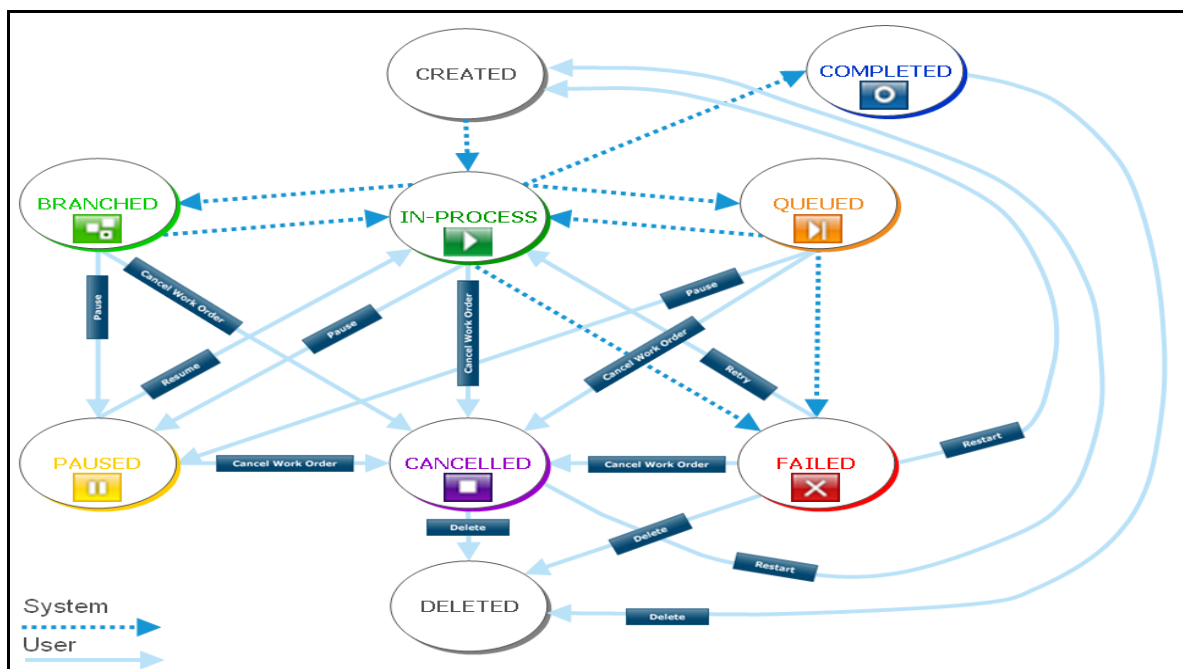
Status and Actions

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 6.17: Work Order State Transition Diagram



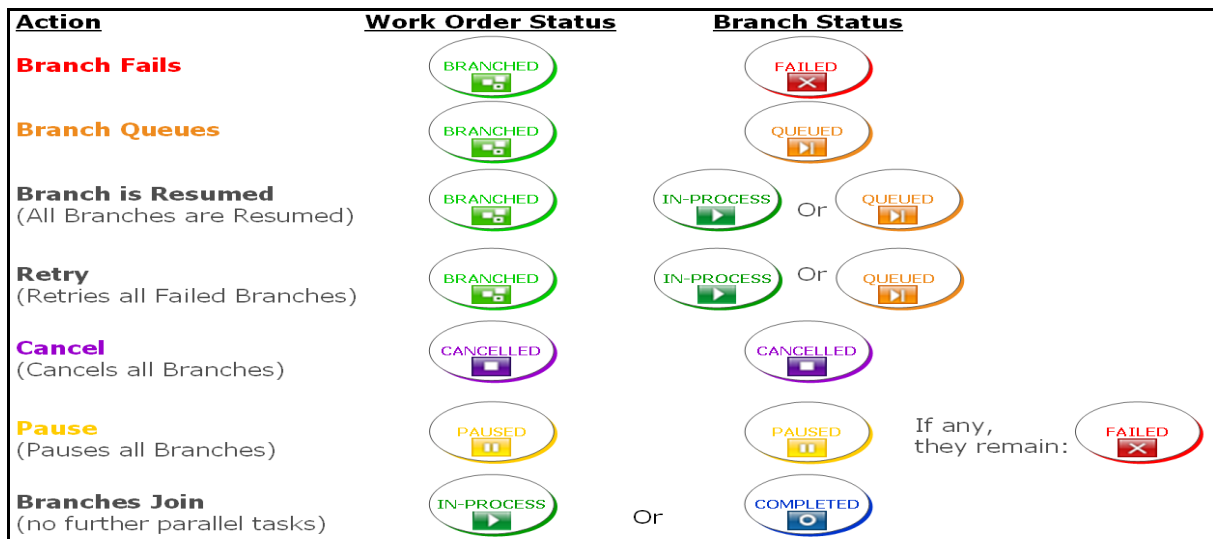
Branched Work Order Status Transitions

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 6.18: 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 6.19: Change Work Order Priority

The screenshot shows the 'Work Order Properties' page with the 'Properties' tab selected. The 'Priority' dropdown menu is set to 'HIGHEST'. Below the form, the 'Work Order Parameters' table is visible.

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/CL1.1_Sat_May_08_2010_18.33.26_552_1..v.xml_1273368824243
Create Title if not Present?	BOOLEAN	createTitleNotExist	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 6.20: View Work Order Properties: Add Notes

The screenshot shows the 'Work Order Properties' page with the 'Properties' tab selected. The 'Notes' field contains the text: 'Add note test [admin at Fri May 14 2010 12:39:19 GMT-0700 (Pacific Daylight Time)]'. Below the form, the 'Work Order Parameters' table is visible.

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

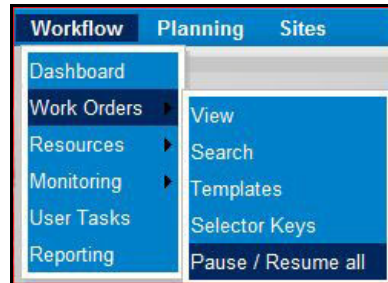
Pause All/Resume All

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 6.21: Pause/Resume All Menu



2. The login page displays.

Figure 6.22: Pause/Resume All Login

A screenshot of a web application's login page for pausing or resuming all work orders. The page has a title bar that says 'Pause / Resume all Work Orders'. Below the title bar, there are two input fields: 'Login Name:' and 'Password:'. Below the input fields, there are two buttons: 'Pause All' and 'Resume All'.

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**.

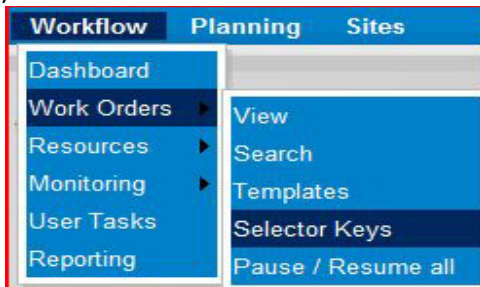


Selecting Resume All resumes ALL work orders, including any that were paused prior to the last Pause All.

Assigning Selector Keys

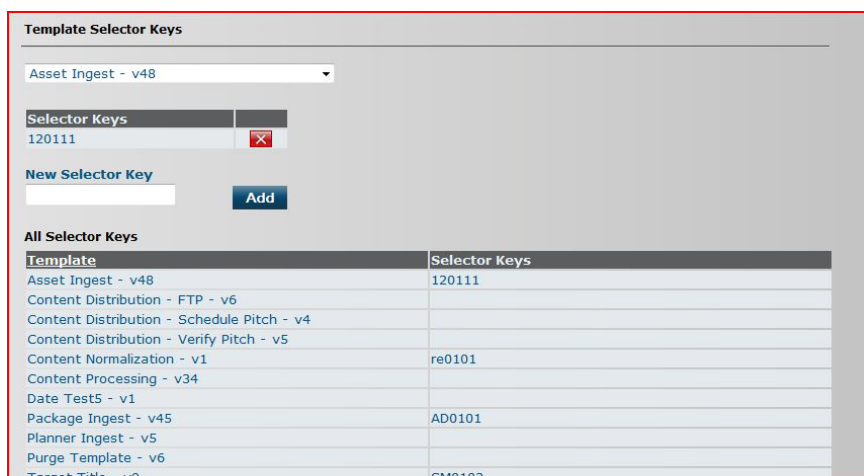
Selector keys are attached to the template so that work orders can be automated. Incoming messages have selector tags, which call for a selector class. This selector class returns the selector key. These selector keys are defined at the time of template implementation and customization. Refer to the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

Figure 6.23: Accessing Selector Keys



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

Figure 6.24: View Template Selector Key Details

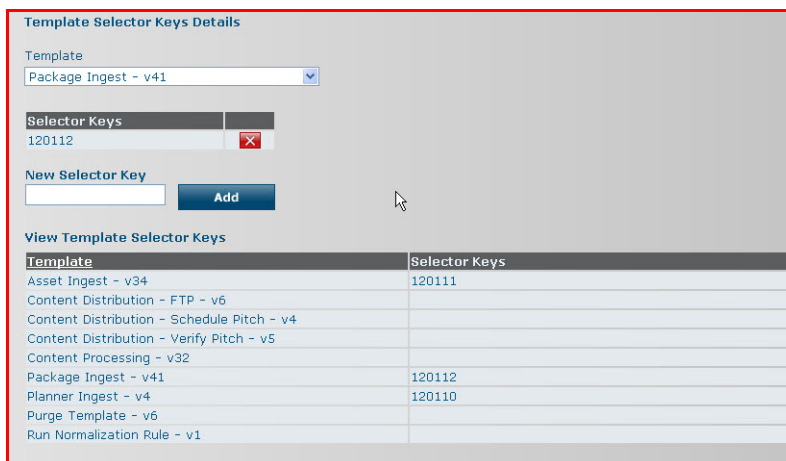


Assign a New Selector Key

To assign a new selector key:

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

Figure 6.25: 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 6.26: 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

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 6.27: Assigned User Tasks

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

Resources: [admin](#) Templates: [\[v\]](#) Tasks: [\[v\]](#)

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

<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](#)

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

Figure 6.28: User Tasks on Home Page

USER TASKS (3/3) [\[v\]](#)

[Create Title?](#)

[Fix Validation](#)

[Manually Select Title and Asset](#)

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

Figure 6.29: Pending Tasks

View User Tasks [\[Ungroup\]](#)

Resources: [admin](#) Templates: [\[v\]](#) Tasks: [\[v\]](#)

Asset Ingest - v26 : Fix Validation [\[i\]](#)

<input type="checkbox"/>	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 [\[i\]](#)

<input type="checkbox"/>	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](#)

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

Figure 6.30: Ungrouped User Tasks

Assigned Tasks [Group]

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

User Tasks

<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

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 6.31: Perform Task

Create Title from Package?

Metadata File Path: /content/1008/05-20-2010/DAVL01010101010202/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 6.32: Select Several Tasks Simultaneously

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

Resources: Templates: Tasks:

Package Ingest - v45 : Create Title from Package?

<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 6.33: Perform Several Tasks

Create Title from Package?

Metadata File Path: Multiple Values

* Create Title?: ☒ Apply to all tasks

Provider Id: Multiple Values

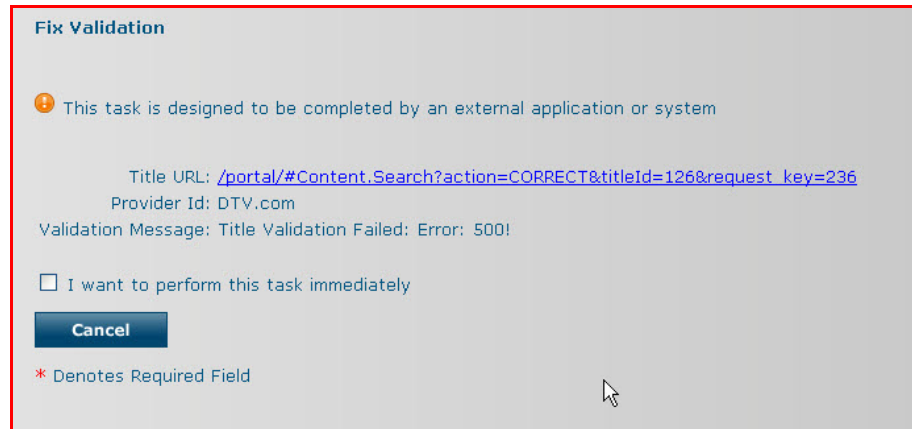
* Denotes Required Field

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 6.34: 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

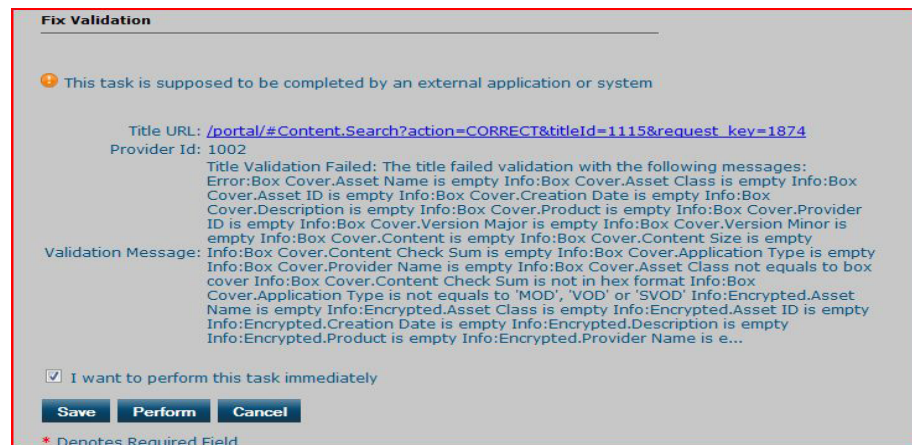
Cancel

* 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 6.35: 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.

Listing Reports

WatchPoint supports both standard and custom reports. Both types display in the Reports list.

To list reports, from the **Workflow** menu, select **Reporting**. The list of reports is displayed.

Figure 6.36: Standard Reports



The following standard reports are included in the workflow system installation.

Table 6.1: Standard Reports - Content Volumes

Report Name	Description
Content Volumes by Template	Number of work orders for a particular template within a specified date range

Table 6.2: 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
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 6.3: Example Custom Reports

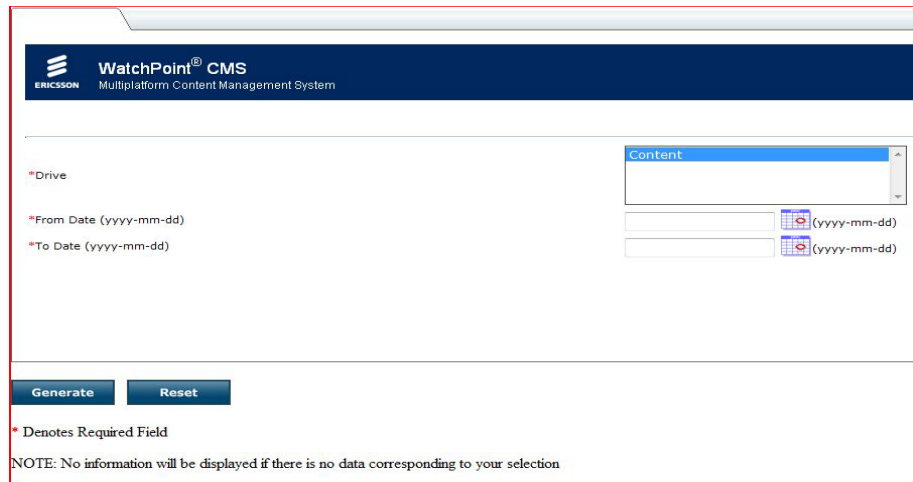
Report Name	Description
Content List by Provider	Assets that have been processed for a specific Provider and Asset Type within a specified date range
Work Orders Missing the License Window	List of titles (assets) that were not available before the license start date
Count of Work Orders by Template, 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

To run a report:

1. Click the [Report name](#).
2. Enter report parameters. The screen below shows the entry screen for the *Average SAN Usage by Drive* report.

Figure 6.37: Enter Report Parameters screen.

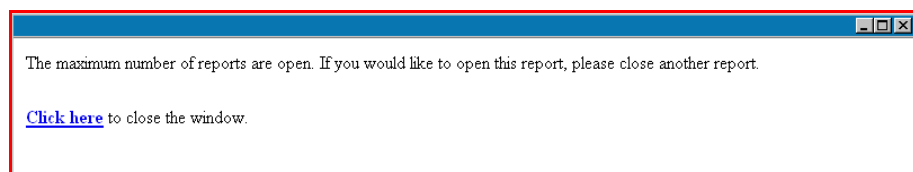


3. Click **Generate**.



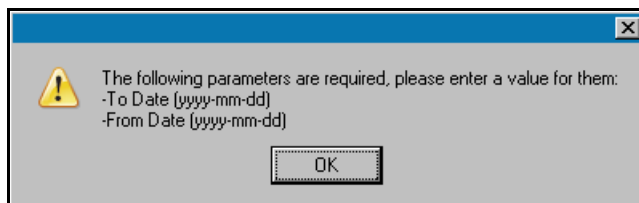
Access to the reports is limited by the number of user licenses. Therefore, you must close the report window when you are done viewing the report, by clicking either the "x" in the report tool bar or the Close link.

Figure 6.38: Error When Maximum Reports Are Open



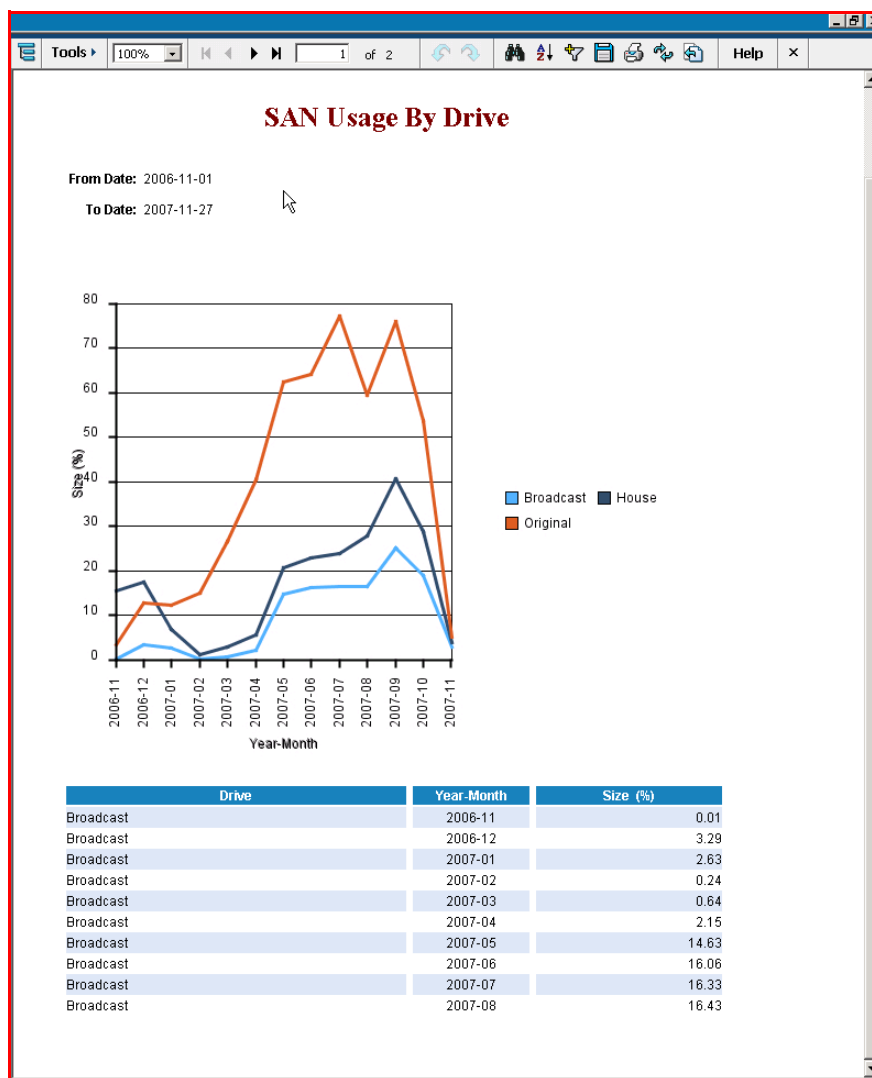
When parameters are required, a warning displays.

Figure 6.39: Parameters Are Required



To generate the report, complete the values and click **Generate**.

Figure 6.40: Report View



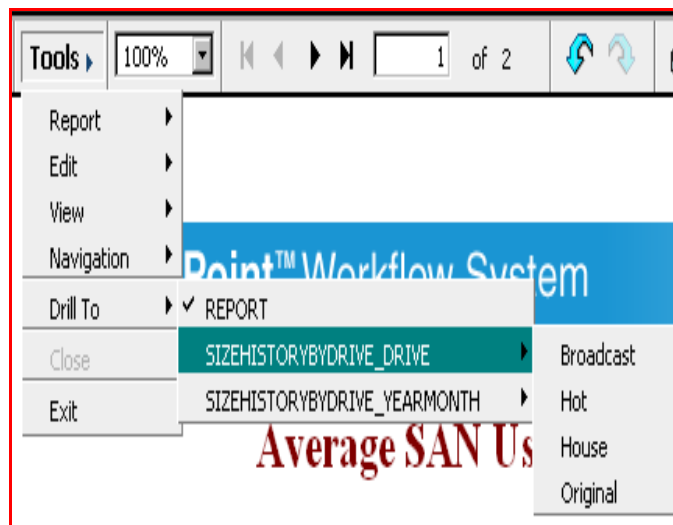
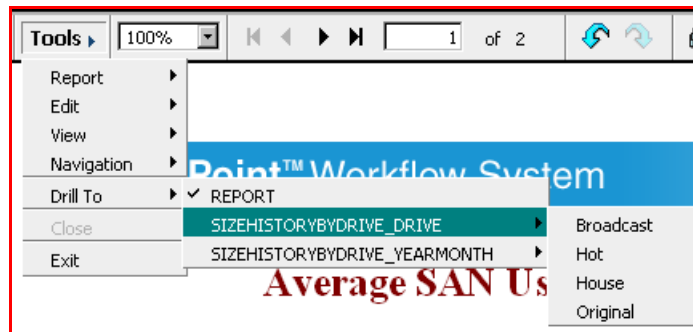
Controlling the Report View

The major features available to controlling the report result view include:

- **TOC Browser** – Use the Table of Contents (TOC) panel to Navigate the report
- **Tools** (drop-down menu) – Drop-down access to View Features

- **Report** – New, Save, Save As..., Save Result..., Export To [PDF, Excel, RTF, HTML, Text, PostScript, XML], Style, Page Setup..., Printable Version
- **Edit** – Undo, Redo, Search..., Find Next, Find Previous, Reset, Refresh
- **View** – User Information Panel, TOC, Sort [Sort on Groups, Sort on Detail], Filter, Customize..., Pop-up Menu, Skin (for the icon tool bar in JReport)
- **Navigation** – First Page, Prev Page, Next Page, Last Page
- **Drill To** – Report (top level); Drill down or up one group level to show records of a particular group
- **Close** – Closes the current active report view
- **Exit** – Quit and close the DHTML window

Figure 6.41: Examples of Using "Tools" and "Drill To"



- **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
- **Undo and Redo** – Undo recent view change; redo recent view change
- **Search** – Searches for any text in the report
- **Sort** – Sorts records in the data buffer according to settings
- **Filter** – Set a series of conditions to reproduce the report by filtering the data buffer where data is cached

- **Save Result** – Saves the report result (see next section for further description of Saving Reports)
- **Print** – Prints the report result
- **Refresh** – Refreshes the report display
- **Reset** – Resets the report display
- **Help** – Displays a detailed description of each JReport option

Figure 6.42: Example of JReport Help Window

JReport DHTML Window Screen Elements

The main page of DHTML consists of the menu bar, toolbar, navigation bar, TOC, and report area.

Options for browsing or controlling the DHTML report result are as the following:

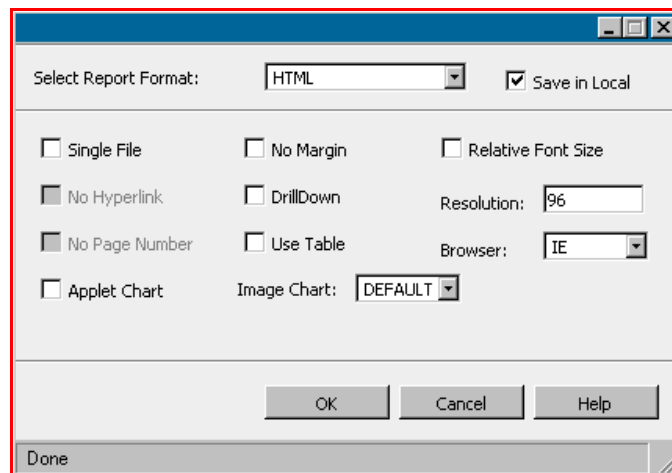
Menu	Command	Description
Report	New	Creates a new report based on the existing queries.
	Save Result	Saves the report result to disk or version in various format.
	Save	Saves the report as a report version.
	Save As	Saves a copy of the report.
	Export To	Exports the report result to various formats, such as html, PDF, text, Excel, postscript, rtf, and xml.
	Page Setup	Specifies the page settings for the report result.
	Print	Prints the current report result.
	Close	Close the current active report view, enabled when multiple reports are opened.
	Exit	Quits and closes the DHTML window.
	Undo	Undo the last operation.
Edit	Redo	Reverse operation of Undo.

Saving the Report

To export and save the report:

1. Click the disk icon in the toolbar. The Save panel is displayed.

Figure 6.43: Saving the Report



2. Select a format to save the report, such as HTML, PDF, TEXT, Excel, PostScript, Rich Text Format, or XML. For all formats excluding HTML, a check box labeled *Save in Local* is displayed. This check box enables you to save the report result to your local disk.
3. Click **OK** to save the report.
4. Set the options for the result format you select.
Select from drop-down menus: **Browser** (IE, Netscape, Mozilla), **Select Report Format** (HTML, PDF, Text, Excel, PostScript, Rich Text Format, XML), and **Image Chart** (Default, JPEG, GIF).

7

RESOURCES

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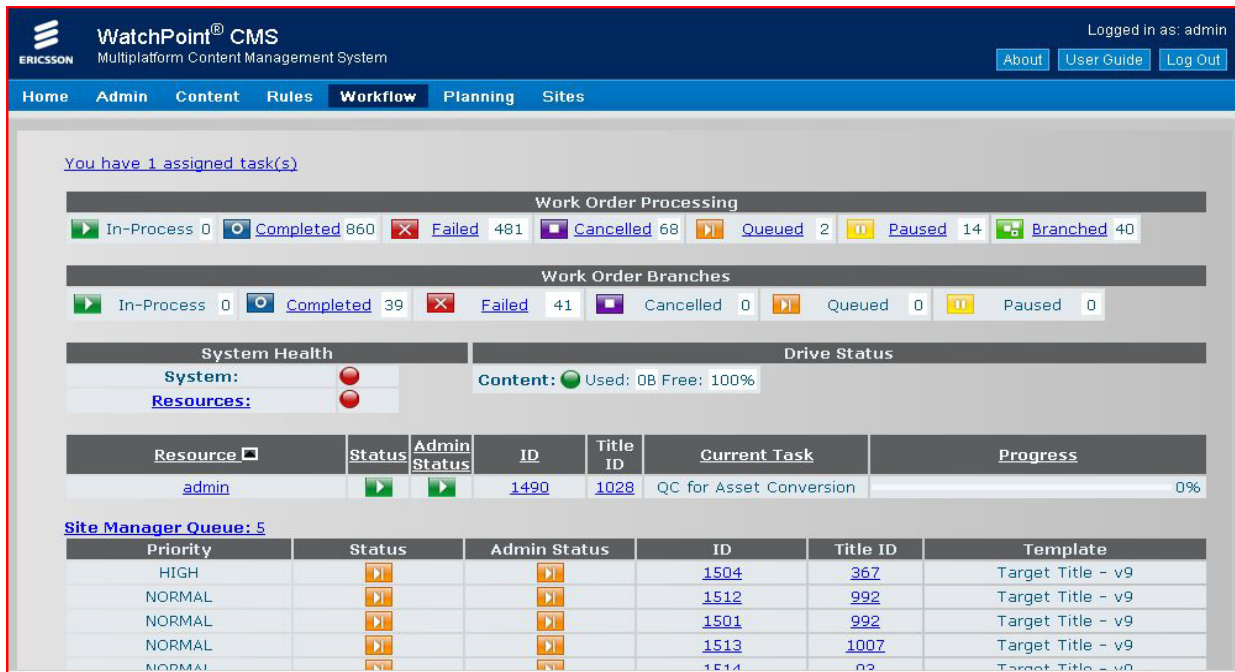
Overview

The Workflow component of the 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?

	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 the 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, the 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 the CMS. Resources are created within the 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

Resources 						
<input type="checkbox"/>	Resource Name 	Connection String	Resource Type	Group	Status	Admin Status
<input type="checkbox"/>	ADI	amsnameserver:5000	ADI 1.1 (ISA)	Asset Management System		
<input type="checkbox"/>	AMS	http://10.232.7.6/amsservices/AmsMessageService	AMS	AMS		
<input type="checkbox"/>	Agility	http://10.232.7.18/AgilitySoap/AgilitySoapAPI.asmx	Anystream Agility	Transcoder		
<input type="checkbox"/>	CMS	http://10.232.7.4:8081/cms/services/CMSService	CMS	CMS		
<input type="checkbox"/>	Content	http://10.232.2.79:8080/portal	Content Trafficking	Content Planning, Content Trafficking		
<input type="checkbox"/>	Content Ingest	http://10.232.7.33:8080/portal/#content	Content Trafficking	Content Ingest		
<input type="checkbox"/>	Content manager	http://localhost:8080/portal	Content Management	Content Management		
<input type="checkbox"/>	Digital Rapids	http://10.10.0.115:43778/Stream?wsdl	DigitalRapids	DigitalRapids		
<input type="checkbox"/>	Editor	http://138.85.186.52:8081/MediawareService/services/MediawareService	Mediaware	Mediaware		
<input type="checkbox"/>	Envivio	http://10.232.7.42/balancerSOAP	Envivio Adapter	Envivio Adapter		

[Create](#)
[Delete](#)
[Take Offline](#)
[Bring Online](#)

10 25 50 100 rows per page
 page 1 of 3
go to page: 1

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 the 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

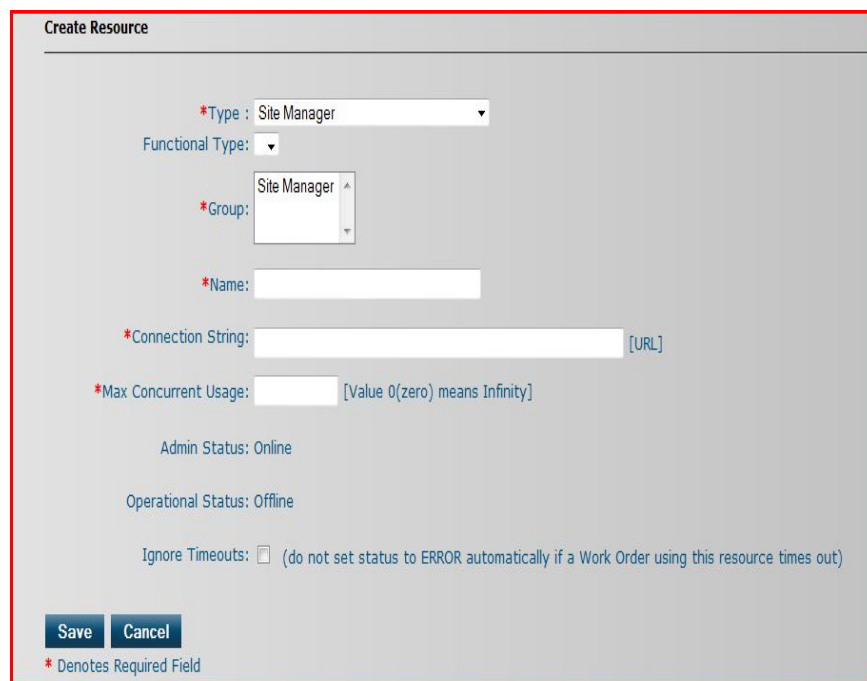
Operational Status	Admin Status	Resource Status
		The user clicked Bring Online . The resource is initializing.
		Initialization is complete.

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

The screenshot shows a 'Create Resource' dialog box. It contains the following fields and values:

- *Type: Human (dropdown menu)
- Functional Type: (dropdown menu)
- *Group: Content Manager, Quality Control (list box)
- *Name: (dropdown menu)
- *ConnectionString: [Email Address] (text field)
- *Max Concurrent Usage: (text field) [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)

The screenshot shows the 'Modify Resource' form with the following details:

- *Type:** Content Trafficking
- Functional Type:** (dropdown menu)
- *Group:** Content Planning, Content Trafficking, PMM
- *Name:** Content
- *Connection String:** http://10.232.2.79:8080/portal [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)
- Buttons:** Take Offline, Cancel
- Legend:** * Denotes Required Field

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 the 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 for System ID: 05 is inactive or not found in database	
Adult Video - SD - QVGA	05	• Resource Type cannot be changed.	
Adult XPort Verifier	09	• Resource Type for System ID: 05 is inactive or not found in database	
Artwork	10	• Resource Type cannot be changed.	
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	• Resource Type for System ID: 06 is inactive or not found in database	

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 the CMS.

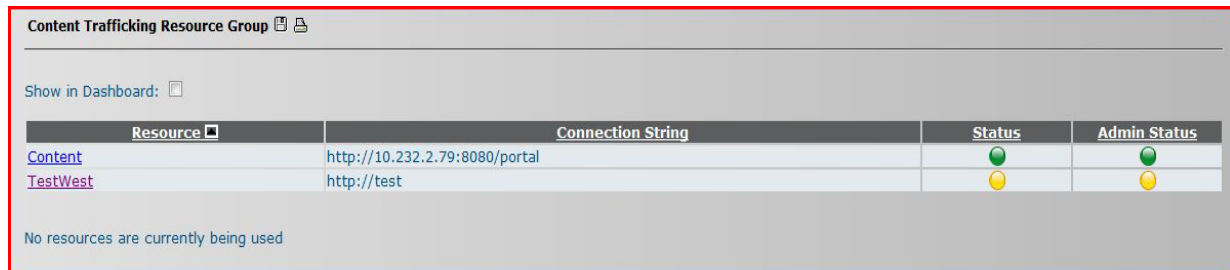
Viewing a Resource Group

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

Site Manager Resource Group

Show in Dashboard:

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

QUEUES	
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:

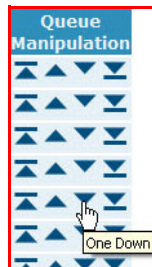
1. From the **Workflow** menu, select **Resources** -> **View**.
2. From the list of resources, click a link in the *Group* column. The following is displayed for queued work orders in the selected group:
 - *Priority*
 - *Status*
 - *Admin Status*
 - *ID* (Work Order Number)
 - *Title ID*
 - *Template*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

What's Ahead ...

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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.

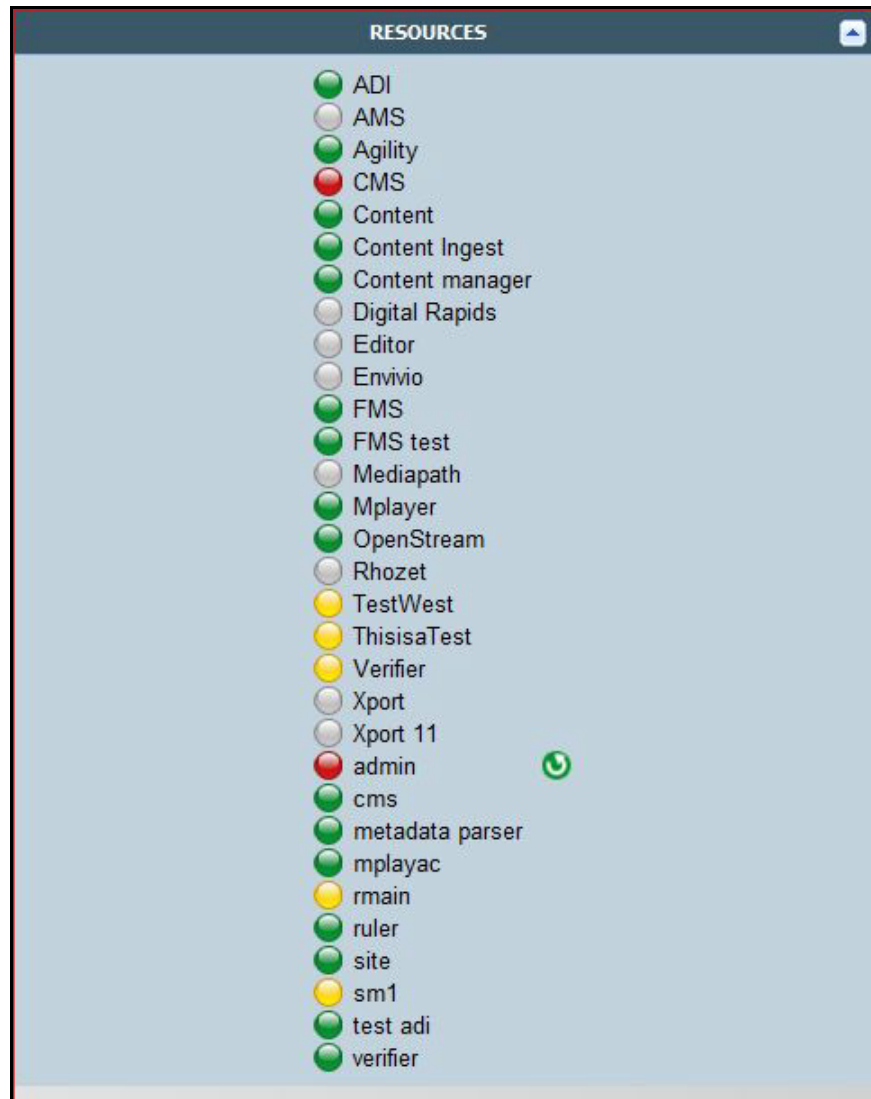
Monitoring Through the Interface

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 the 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.

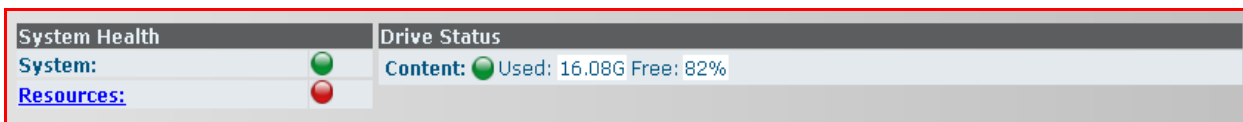


A resource that is displayed as not available might or might not be in an error state.

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



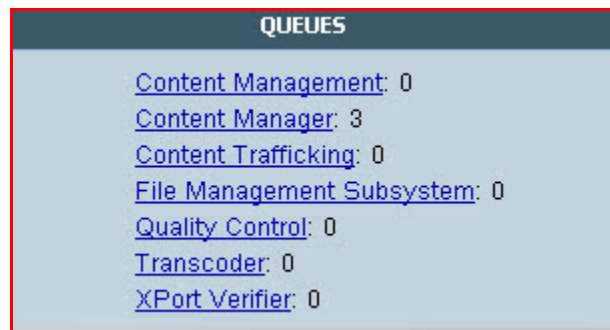
In this view, the status of the system and all resources are displayed, but not listed individually. In the previous figure, at least one resource is in an error state. The dashboard provides the current status and usage of configured drives.

Queues

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

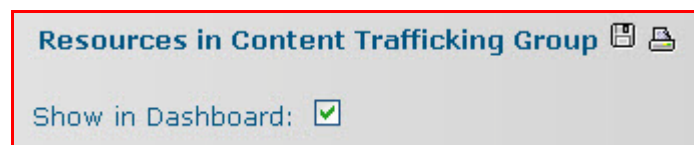
The queues area on the *Home Page* lists the **resource groups** defined in the system as well as the number of work orders in the queue waiting to obtain resources from the resource group associated with the current task.

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 checked="" type="checkbox"/>	
<input type="checkbox"/> Drive Status	Drive Status	1 per 1 Hrs 0 Mins 0 Secs	1 per 1 Hrs 0 Mins 0 Secs		<input checked="" type="checkbox"/>	
<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 checked="" type="checkbox"/>	
<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 checked="" type="checkbox"/>	
<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 checked="" type="checkbox"/>	
<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 checked="" type="checkbox"/>	
<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 checked="" type="checkbox"/>	
<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 checked="" type="checkbox"/>	
<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 checked="" type="checkbox"/>	
<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		<input checked="" type="checkbox"/>	

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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

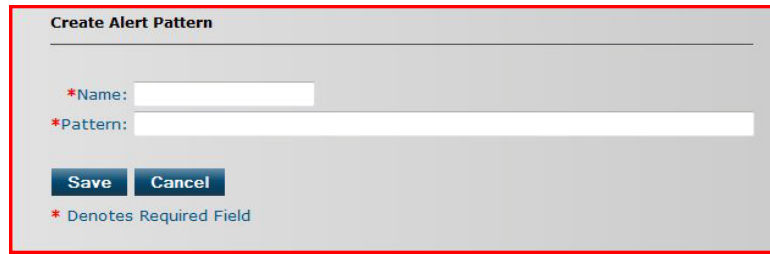
Before additional alerts can be created for other events, a new alert pattern must be defined to match the message string issued by a resource. Alert patterns are a specific set of characters that are stored in the system logs. When the pattern is detected, the alert is triggered. Patterns support the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

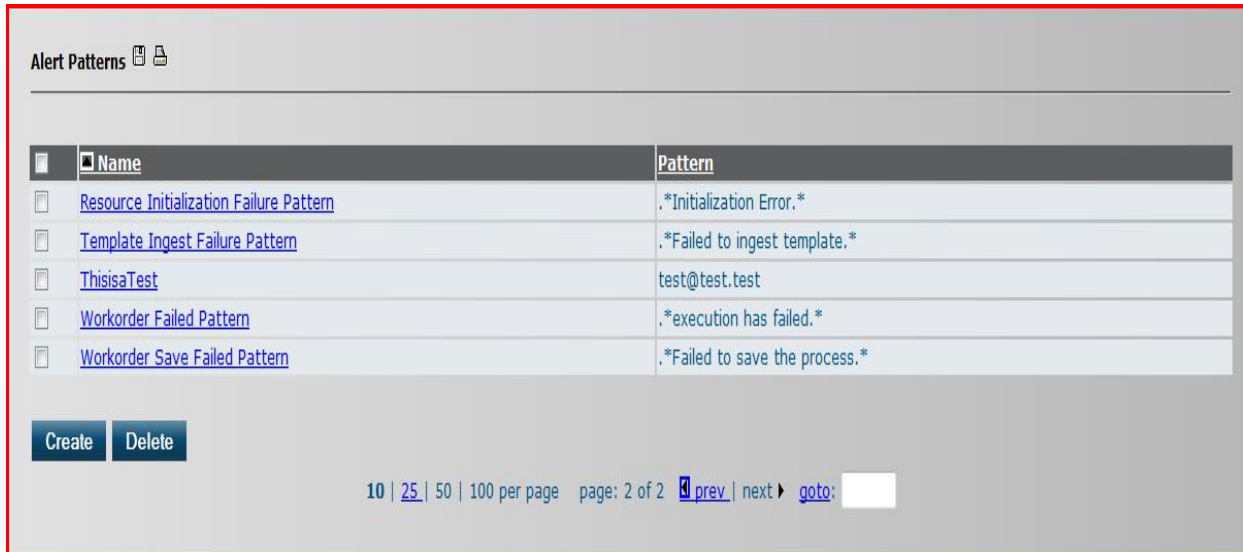
2. Enter a *Name* for the alert pattern.
3. Enter the string *Pattern* to match and click **Create**. The new pattern is added.
4. To return to the View Alerts page without saving changes, click **Cancel**.


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**

10 | [25](#) | 50 | 100 per page page: 2 of 2 [prev](#) | next [goto:](#)

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

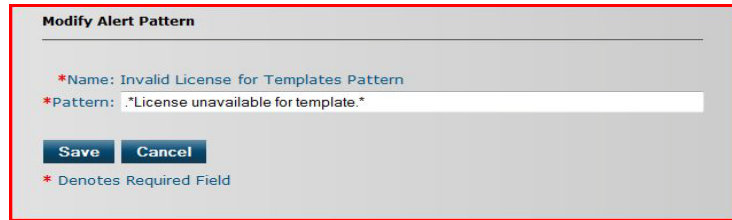
2. To remove a pattern, select the check box next to the pattern name and click **Delete**.

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

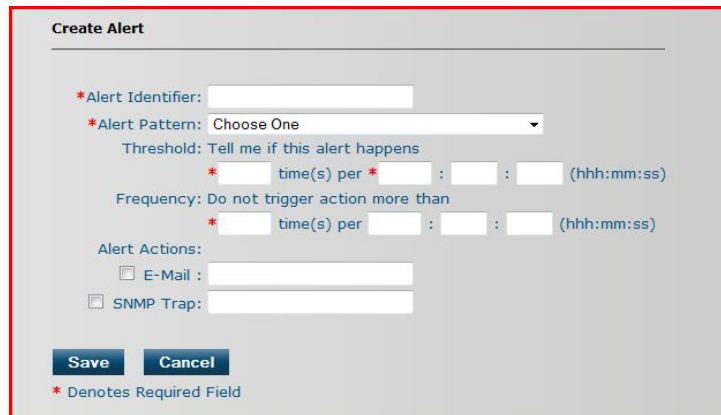
Alerts can be added, modified, and removed from the system. The user can add new alerts to send a notification or display an error message when WatchPoint receives a matching alert pattern communication string.

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 

 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.

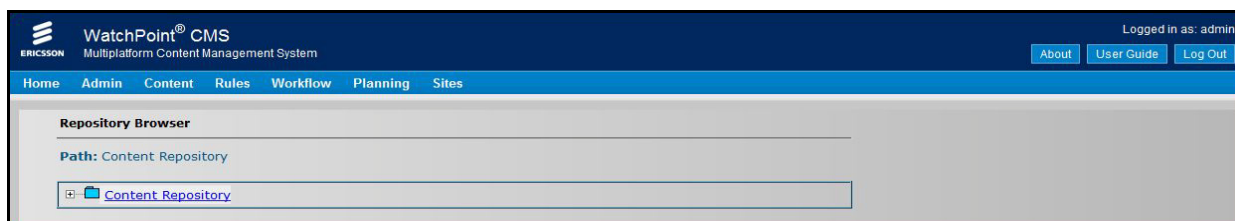
Storage drives cannot be added through the WatchPoint UI.

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.

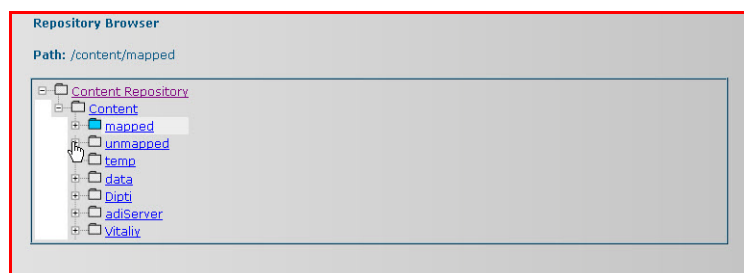
Figure 8.16: Repository Browser



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

PLANNING

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Introduction to the Process

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.

Managing 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.

To view partners:

Select **Planning** -> **Partner**. The screen displays the following:

Figure 9.1: View Partners

Type	Name	Partner ID	Provider ID	Contact Email Address
DISTRIBUTION	1	14	1	1@1.com
DISTRIBUTION	12	15	12	12@12.com
DISTRIBUTION	CDN	21	4444	l@l.com
SOURCE	Columbia	9	Columbia	Columbia@test.com
DISTRIBUTION	Comcast	5	comcast.com	v@v.com
SOURCE	DTV	6	DTV.com	d@d.com
SOURCE	Dreamworks	4	Dreamworks	test@test.com
DISTRIBUTION	MGM	23	MGM	1@1.com
SOURCE	MOVIEPASS	17	MOVIEPASS	test@test.com
SOURCE	MOVIEPLEX	18	MOVIEPLEX	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 **Planning** -> **Partners**. Click the **Create** button. The screen displays the following:

Figure 9.2: Create Partner

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 value affects the job schedules when they are created.
 - 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.

- 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:

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

Figure 9.4: Partner Menu

General [Services](#) [Schedules](#) [Jobs](#)



The Jobs tab will not display until jobs have been created.

- Select the **General** tab to display the Modify Partner page. This is the page that is displayed when the instance is accessed.
- Enter changes.

Figure 9.5: Modify Source Partner

General [Services](#) [Schedules](#) [Jobs](#)

Modify Partner

*Partner Id: 24 *Partner Type: SOURCE *Partner Name: COMCAST *Provider Id: Comcast Cable Lookup Key: 666		Contact First Name: Bette Contact Last Name: Midler *Contact Email: bettemidler@comcast.com	
--	--	---	--

Default Pitch Frequency
On MONDAY every week(s)

Partner Properties		Notes
Name	Value	
<input type="text"/>	<input type="text"/>	<div></div>
<input type="text"/>	<input type="text"/>	

Add

Save Cancel

* Denotes Required Field

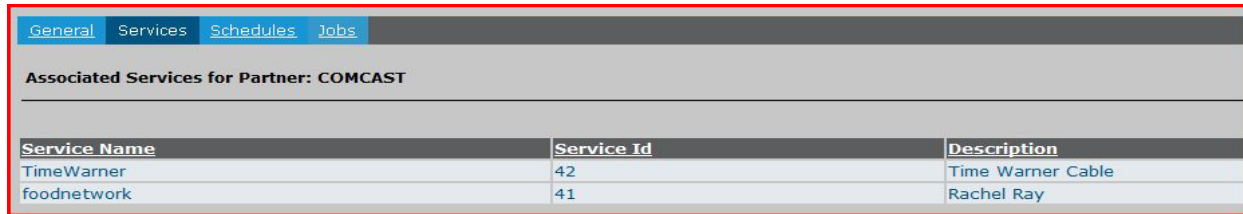
The ID and the Type cannot be changed for any partner type.

- Click **Save**. A confirmation message displays.

Viewing Subscribed Services

To view subscribed services, select the **Services** tab.

Figure 9.6: Partner Services



Associated Services for Partner: COMCAST		
Service Name	Service Id	Description
TimeWarner	42	Time Warner Cable
foodnetwork	41	Rachel Ray

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.

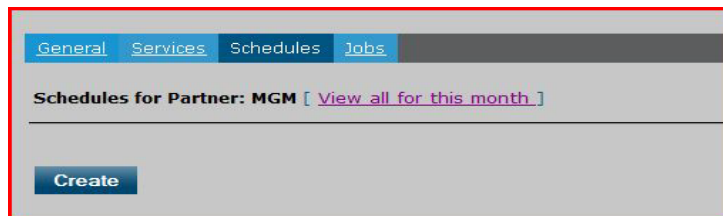
The list displays the *Service Name*, *Service Id*, and *Description*. This page is display only. These associations are managed in the **Schedules** area.

Managing Schedules

To manage schedules:

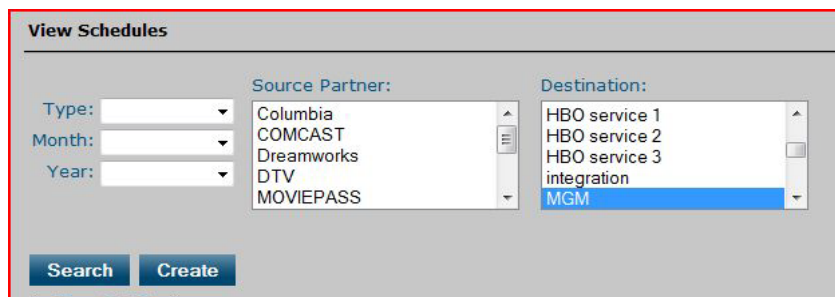
1. Select the **Schedules** tab.

Figure 9.7: View Schedules



2. Click the [View all for this month](#) link. The screen displays the following:

Figure 9.8: View Schedules for this month



View Schedules

Type: Month: Year:

Source Partner: Destination:

Creating Services

The View Services page is the default start page for this area. Each instance is listed with the *Service Name*, *Service Id*, *Description*, *Associated Distribution Partners*, and *Associated Source Partners*. The *Service Id* is a unique number assigned by the system when the service is created. The number cannot be reused or changed.

To create services:

- From the **Planning** menu, select **Services**. The *View Services* screen displays a list of services. Click on the **Create** button. The screen displays the following:

Figure 9.9: Create Service

Create Service

Service Info

*Service Name:

Lookup Key:

Service Properties

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

Add

Description:

Save Cancel

* Denotes Required Field

- 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.
- Optionally, enter the *Lookup Key* and a *Description*. The *Lookup Key* is a string that the template uses to identify this entity.
- Optionally, enter any *Service Properties*. These are name and value associations that can be called from a template.
- Click **Save**. A confirmation page displays.

Modifying Services

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

To modify services:

- Click either the [Service Name \(ID\)](#) from the successfully saved message or the [Service Name](#) from the View Services page.

Figure 9.10: Modify Service

Modify Service

Service Info

*Service Id: 42

*Service Name: TimeWarner

Lookup Key:

Service Properties

Name	Value
FOX	<input type="text"/>
Cartoon Network	<input type="text"/>

Add

Description: Time Warner Cable

Save Cancel

* Denotes Required Field

- Enter changes.
- Click **Save**. A confirmation page displays.

Associating Partners

To associate partners:

- Select the **Partners** tab from the Modify Services screen.

Figure 9.11: Service Partners

The screenshot shows a software interface for managing service partners. The title bar indicates the service is 'TimeWarner'. The 'Partners' tab is selected. The interface is divided into two main sections: 'Distribution Partners' and 'Source Partners'. Each section has a list of available partners on the left and a list of associated partners on the right. In the 'Distribution Partners' list, 'CDN' is selected. In the 'Associated Distribution Partners' list, 'COX' is listed. In the 'Source Partners' list, 'Columbia' is selected. In the 'Associated Source Partners' list, 'COMCAST' is listed. Navigation arrows are present between the lists. The 'Save' and 'Cancel' buttons are at the bottom.

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. Click **OK**. A confirmation message displays.

Once the partners and services are set up, you can create jobs.

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.

Scheduling Rules

During job creation or edit, users can define a work order schedule per 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.
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 **Planning -> Partner** to display the *View Partners* page. 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.
2. Select the **Jobs** tab. The Jobs page displays any jobs that have already been created.
3. Select **Create** to create a new entry.

Figure 9.12: 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

4. Enter the *Job Name* to identify this set of parameters. Next you must enter the Job Schedule rules.

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.

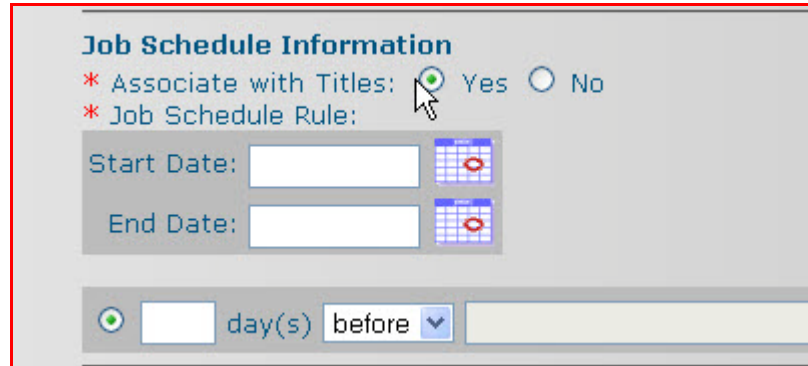
Both of these scenarios are illustrated in the following sections.

Enabling Associate with Titles

To enable the associate with titles feature:

1. Select Yes to activate title association.

Figure 9.13: Associate with Title Scheduling



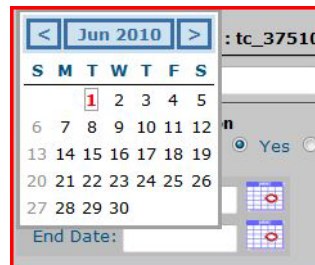
The screenshot shows a form titled "Job Schedule Information". It contains two radio buttons for "Associate with Titles:" with "Yes" selected. Below this is a field for "Job Schedule Rule:" followed by "Start Date:" and "End Date:" fields, each with a calendar icon. At the bottom, there is a field for "day(s)" with a dropdown menu set to "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.

2. If this job is to be run for the foreseeable future, 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.

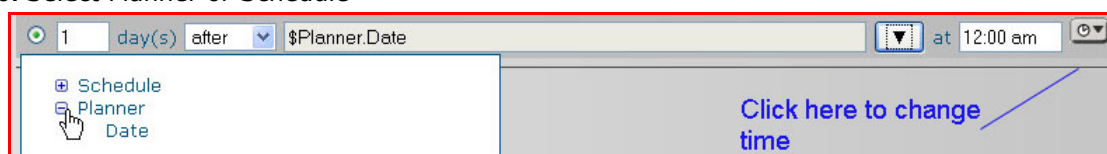
Figure 9.14: Selecting a Date Range



The screenshot shows a calendar for June 2010. The date "1" is selected. To the right of the calendar, there is a field for "End Date:" and a "Yes" radio button.

3. The first text box is for the number of days to be offset from the planner or schedule date. Enter the number of days.
4. Select *before* or *after* to define the offset relationship.
5. 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 9.15: Select Planner or Schedule



The screenshot shows a form with a text box containing "1", a dropdown menu set to "after", and a field labeled "\$Planner.Date". To the right, there is a field for "at" followed by "12:00 am". Below the text box, there are three radio buttons: "Schedule", "Planner", and "Date", with "Planner" selected. A link "Click here to change time" is visible on the right.

In this scenario, 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.

Jobs created for the self partner that have *Associate with Titles* enabled are centered around a title metadata field.

6. The default time is 12:00 am. To change this time, click on the clock icon and select a new time.
7. 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
8. 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 9.16: Do Not Associate with Titles Scheduling

Create job for PARTNER : COX

* Job Name: GhostinShell

Job Schedule Information

* Associate with Titles: ☐ Yes ☒ No

* 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

☒ Execute Rule Set

☐ Execute Work Order

Priority: NORMAL

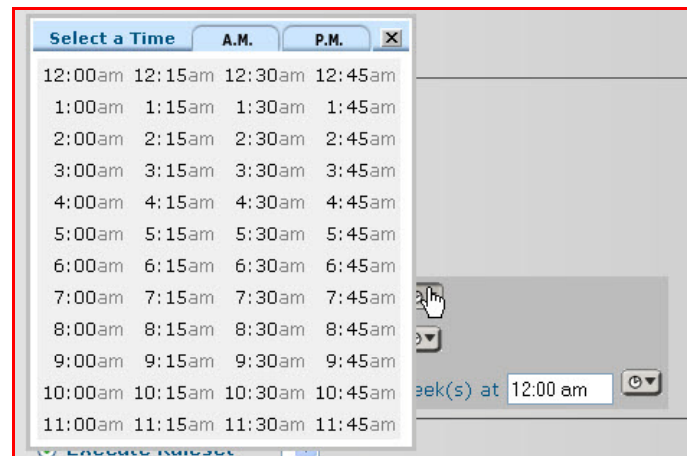
*Template:

Save **Cancel**

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.

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 9.17: 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.

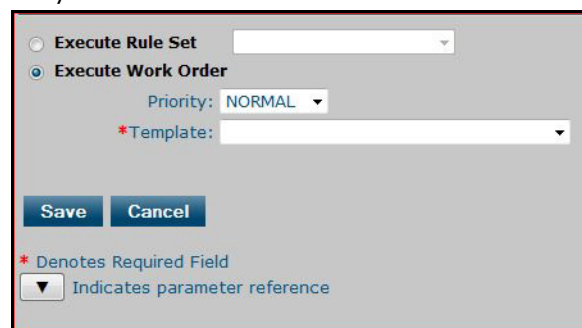
Execute Work Order

If a rule set is not triggered, a work order is initiated. A priority and template must be selected.

To execute a work order:

1. Select a priority from the drop-down list.

Figure 9.18: Select a Job Priority



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 9.19: Select Job Template


Create job for PARTNER : CartoonNetwork


* Job Name:



Job Schedule Information

* Associate with Titles: ☒ Yes ☐ No

* Job Schedule Rule:

Start Date: 

End Date: 

☒ 3 day(s) before  at 12:00 am 










☐ Execute Rule Set

☒ Execute Work Order


Priority:

*Template:

Job Parameters

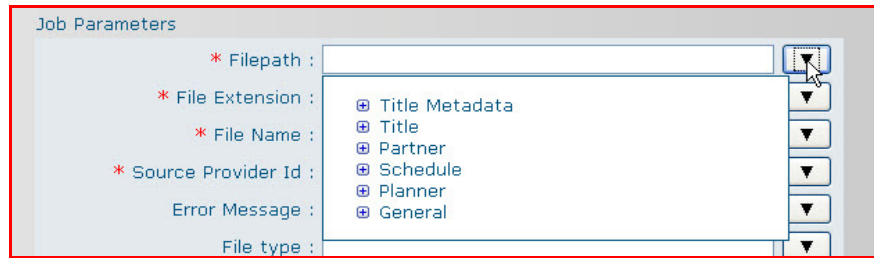
* Master Title ID :	<input type="text"/>	
* Site IDs :	<input type="text"/>	
Site Title ID :	<input type="text"/>	
Content Processing Scheduled? :	<input type="text"/>	
Source Component Name :	<input type="text"/>	
Source Entity Name :	<input type="text"/>	
Source Id :	<input type="text"/>	
Site Id :	<input type="text"/>	
Has More Sites? :	<input type="text"/>	

* Denotes Required Field

 Indicates parameter reference

To view available references for a parameter, select the drop-down arrow.

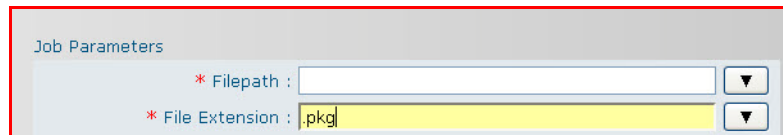
Figure 9.20: Select Parameter Reference



The user enters the reference, which is then filled 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 the user to make a logical choice.

3. Optionally, map a reference or enter a constant value into the text box.

Figure 9.21: 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.

4. Click **Save**. The job is added to the list of jobs created for that partner. A confirmation message displays.

Figure 9.22: Job Created Confirmation



When the *Start Date* has been met, the system initiates a job instance based on the schedule rule and system conditions.

Viewing Jobs

A list of jobs assigned to a partner can be viewed.

To view a job:

1. Click a partner [Name](#) in the View Partners page to access its management area.
2. Click **Jobs**.

Figure 9.23: View Partner Jobs

Home Admin Content Rules Workflow Planning Sites				
General Services Schedules Jobs				
Jobs for Partner: COMCAST				
<input type="checkbox"/>	Name	Id	Template/Rule set Name	Job Schedule Rule
<input type="checkbox"/>	BatmanBegins	9	Content Distribution - Schedule Pitch	1 day(s) before Planner - Date at 11:45 pm
<input type="checkbox"/>	PricelineAD	10	CMS Test	Every 5 day(s) at 10:45 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.

3. Optionally, delete jobs from this page. The job cannot be removed if it is currently being executed.
4. Click the job's [Name](#) to display its definition.

About Schedules

Schedules define when and what titles are received from whom or pitched to where. The content planning component within the 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 service which are manually created in the CMS.

Schedules Content

A schedule contains the following elements:

- *ID* – Used to identify the schedule within the 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 be modified when they are in the New state. Once a schedule is Approved, the schedule cannot be modified unless its status has changed.

Viewing a Schedule Timeline

To view a schedule timeline:

1. From the **Planning** menu, select **Partner** or **Service**. Select a partner from the *View Partners* list or a service from the *View Services* listing.
2. The *Modify Partner* or *Modify Service* screen displays. Click on the **Schedules** tab. The schedules listing displays:

Figure 9.24: Schedule Tab list

Id	Status	Pitch Date	Titles
225	NEW	2010-05-20	View Titles
226	NEW	2010-05-21	View Titles
232	NEW	2010-05-29	View Titles

Create

3. Click on the [View all for this month](#) link. The following screen displays.

Figure 9.25: Schedule Timeline

View Schedules

Type: Pitch
 Month:
 Year:

Source Partner: Columbia, COMCAST, Dreamworks, DTV, MOVIEPASS
 Destination: 1, CDN, Comcast, COX, HBO service 1

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
1																															

The View Schedules page provides a calendar timeline of schedules listed by associated service or partner. The current month is displayed first by default.

4. To navigate through the calendar year, click the arrows below the **Search** button or select the *Month* and *Year* from the drop-down lists.
5. 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.

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.

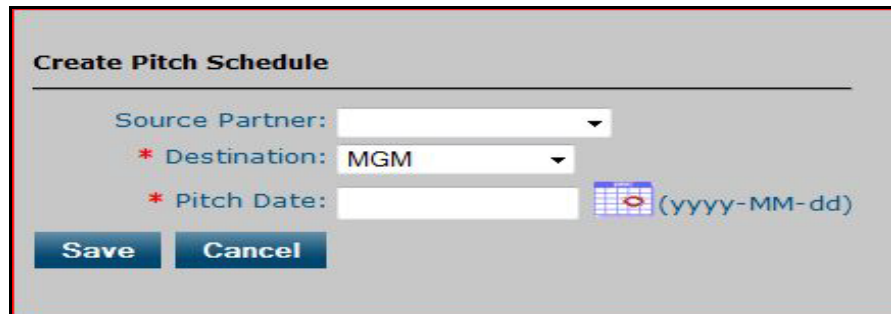


Within the CMS, schedule creation is only related to pitch schedule types. Planner schedules are received from source partners.

To create a schedule:

1. From the **Planning** menu, select **Schedule**. The *View Schedules* screen displays. Click **Create**.

Figure 9.26: Create Schedule




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 9.27: New Schedule's Properties

Pitch Schedule for MGM on 2010-05-13

Properties Basic View Activity View

Source Partner: COMCAST

* Destination: MGM

* Date: 2010-05-13 (yyyy-MM-dd)

Status: NEW

Save Change Status Delete

Working with Schedules

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.

Viewing a Schedule

To view a schedule, click an icon from the calendar on the View Schedules page.

Figure 9.28: Select a Schedule

View Schedules

Type: Month: Year:

Source Partner: Columbia COMCAST Dreamworks DTV MOVIEPASS

Destination: 1 CDN Comcast COX HBO service 1

Search Create

May 2010

	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
Source / Dest.	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
1																															
MGM																															

The Modify Schedule area is displayed. Three views are available for a schedule: basic view, which is the default start view, properties, and activity view. These are displayed in an additional submenu.

Figure 9.29: Schedule View Options

Properties Basic View Activity View

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 the initial display.

Figure 9.30: Basic View

Pitch Schedule for MGM on 2010-05-13

Properties Basic View Activity View

Total titles (1)	Total run time (00:00:19)
Draft (0)	Total new hours (00:00:19)
Committed (0)	Refresh rate (100%)
Ready (1)	
Approved (0)	

Icons:  

ID	Title Brief	Asset ID	Provider	Run Time	License Start	License End
994	automation_The Counterfeiters	XPPK1111100000022386	DirecTV	00:00:19	2010-08-07T00:00:00	2050-09-25T00:00:00

Add Titles Remove Titles

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 9.31: Pitch Schedule with Issue

Pitch Schedule for BBC on 2010-05-20

Properties Basic View Activity View

Total titles (1)	Total run time (00:00:00)
Draft (0)	Total new hours (00:00:00)
Committed (1)	Refresh rate (0%)
Ready (0)	
Approved (0)	

Icons:  

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 9.32: 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%)

ID	Title Brief	Metadata Received	Movie Received	Planner	Encoding Complete	Package Created	Pitch Scheduled	Distributed	Work Orders
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.

Properties View

To view properties, select **Properties** from the Schedules page menu.

Figure 9.33: Schedule Properties

Pitch Schedule for MGM on 2010-05-13

Properties Basic View Activity View

Source Partner: COMCAST

* Destination: MGM

* Date: 2010-05-13 (yyyy-MM-dd)

Status: NEW

Save 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 9.34: 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 Status Delete

Title changes cannot be made in the Activity View.

Figure 9.35: 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	HAHAHAHAH	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 9.36: Add Titles to New Schedule

Pitch Schedule for Miramax on 2010-05-31

Properties Basic View Activity View

Total titles (3)
Draft (1)
Committed (1)
Ready (1)
Approved (0)

Total run time (05:25:02)
Total new hours (05:25:02)
Refresh rate (100%)

ID	Title Brief	Asset ID	Provider	Run Time	License Start	License End
1096	Boondocks episode 2	9999666677778888			2010-05-24T12:00:00	2011-06-09T12:00:00
1095	modE2E	EEDP0909090909090909	Directv	00:50:40	2009-11-18T00:00:00	2010-11-30T00:00:00
1094	Pride	6667778686868686	LOGO	04:34:22	2010-05-14T12:00:00	2010-10-13T12:00:00

Add Titles Remove Titles

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 *Saved Searches* screen displays as described in Chapter 5. You can select a saved search from the drop-down menu, or select the default *Show All*.
3. To customize your search click **Advanced**. The **Add Filter Criteria** button becomes available. Click this button to display the screen below:

Figure 9.37: Finding Titles to Schedule

Search

Saved Searches: Show All Go Basic

☐ Not Equals

AND + ()

Search Search Name: Share Save

4. Click in the left text box to access the search criteria. Only titles registered with CMS can be scheduled.

Figure 9.38: Accessing Criteria

The screenshot shows the 'Search' interface. At the top, there is a 'Saved Searches' dropdown set to 'Show All' and a 'Go' button. Below this is a 'Basic' tab. The main area contains a search criteria builder. On the left, there is a list of criteria categories: Package, Asset Name, Asset Class, Package Identifier, Asset Creation Metadata, Description, Product Information, Provider, and Version. A dropdown menu is open, showing these categories. A blue arrow points to the 'Select parameter' text, which is located next to the dropdown menu.

5. Select an operator and operand.
6. Enter a name for the search in the *Search Name* field.
7. Click **Save**. The title search parameters will be saved.
8. Click **Search**. The search results will display as shown below.

Figure 9.39: Choosing Titles from Search Results

The screenshot shows the 'Titellist Details: test' interface. At the top, there is a 'Name' field with the value 'WorkoutMix' and a 'Description' field with the value 'Validated titles only in this list'. Below this is a table of search results. The table has columns: Id, Status, Title Brief, Asset ID, Major Version, License Start, and License End. The table contains 6 rows of data. At the bottom of the table, there are buttons: 'Save', 'Add Title(s)', 'Remove Title(s)', and 'Cancel'.

	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
	1035	READY	modE2E	EEDP0909090909090909	1	2009-11-18T00:00:00	2010-11-30T00:00:00
	1028	READY	hari became pot	XPPK0303030303030303	4	2009-11-13T00:00:00	2010-02-27T00:00:00
	1007	DRAFT	HAHAHHAH	XPPK0101010101010101	4	2009-11-01T00:00:00	2011-11-01T00:00:00
	996	COMMITTED	Demo Title 4	XPPK0001177539262940	1	2008-08-31T00:00:00	2058-08-31T00:00:00
	994	READY	automation_The Counterfeiters	XPPK1111100000022386	1	2010-08-07T00:00:00	2050-09-25T00:00:00
	992	COMMITTED	New 2008 Silverado	GMGM2008010700000770	1	2008-01-07T00:00:00	2008-02-28T23:59:59

Title status does not affect its eligibility to be scheduled. How the titles were created in the CMS is also not a factor. The license window end date cannot be on or before the pitch date.

9. Select the titles, and then select **Add to existing pitch schedule** from the drop-down list. Click **Go**.

Figure 9.40: Adding Titles to Basic View

Pitch Schedule for Miramax on 2010-05-31

Properties Basic View Activity View

Total titles (4)
Draft (1)
Committed (1)
Ready (2)
Approved (0)

Total run time (05:25:21)
Total new hours (05:25:21)
Refresh rate (100%)

ID	Title Brief	Asset ID	Provider	Run Time	License Start	License End
1096	Boondocks episode 2	9999666677778888			2010-05-24T12:00:00	2011-06-09T12:00:00
1095	modE2E	EEDP0909090909090909	Directv	00:50:40	2009-11-18T00:00:00	2010-11-30T00:00:00
1094	Pride	6667778888888888	LOGO	04:34:22	2010-05-14T12:00:00	2010-10-13T12:00:00
994	automation_The Counterfeiters	XPPK1111100000022386	DirectTV	00:00:19	2010-08-07T00:00:00	2050-09-25T00:00:00

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 and none of the titles are added.

Figure 9.41: 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	Title Brief	Asset ID	Major Version	License Start	License End
2238	READY	UpdateTestPkg	iNDE0828150234090001	2	2001-01-28T00:00:00	2011-10-18T00:00:00
2237	READY	Title is 77	BSPK2007000000000057	1	2009-11-22T00:41:00	2009-11-24T00:41:00
2236	READY	KCAL 9 NewsCentral	BSPK1681274143542340	1	2010-05-19T00:00:00	2010-05-26T00:00:00
2235	READY	Title is 145	BSPK0001000000009085	1	2009-11-25T16:02:00	2009-11-26T16:02:00
2234	READY	CBS Evening News	BSPK1681274220114293	1	2010-05-18T00:00:00	2010-05-25T00:00:00
2233	READY	Chale Chalo	XPPA1231231231231231	3	2009-11-23T00:00:00	2010-09-24T00:00:00
2232	READY	Judge Joe Brown	BSPK1681274375395246	1	2010-05-20T00:00:00	2010-05-27T00:00:00
2231	READY	Title is 146	BSPK0001000000009086	1	2009-11-25T16:15:00	2009-11-26T16:15:00
2230	READY	KCAL 9 NewsCentral	BSPK1681274143542262	1	2010-05-17T00:00:00	2010-05-24T00:00:00
2229	READY	CBS Evening News	BSPK1681274220114387	1	2010-05-19T00:00:00	2010-05-26T00:00:00

Add to existing pitch schedule Go

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

Schedule viewing and management can also be accessed through the associated partner or service.

To view schedules:

1. Select **Planning - > Partner**. 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.

Figure 9.42: Schedules for Partner

Id	Status	Pitch Date	Titles
89	NEW	2010-05-13	View Titles
90	NEW	2010-05-21	View Titles
91	NEW	2010-05-29	View Titles

Up to five upcoming pitch schedules are displayed for each distribution partner and up to five upcoming planners are displayed for each source partner.

2. To display the complete list for a given partner, click [View all for this month](#).

Figure 9.43: Schedules for Partner Timeline

View Schedules

Type: [] Month: [] Year: []

Source Partner: [Columbia, COMCAST, Dreamworks, DTV, MOVIEPASS]

Destination: [CDN, Comcast, **COX**, HBO service 1, HBO service 2]

[Search] [Create]

◀ May 2010 ▶

	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
Source / Dest.	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
COX																															

The View Schedules page appears filtered by the partner or service. This is the same view displayed by entering the service or partner selection and clicking **Search**.

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. See Chapter 5 for details.
- The ability to manually update metadata for a title for a particular site and view any changes made to that metadata. See Chapter 4 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 sites would be required.

Logical Site:

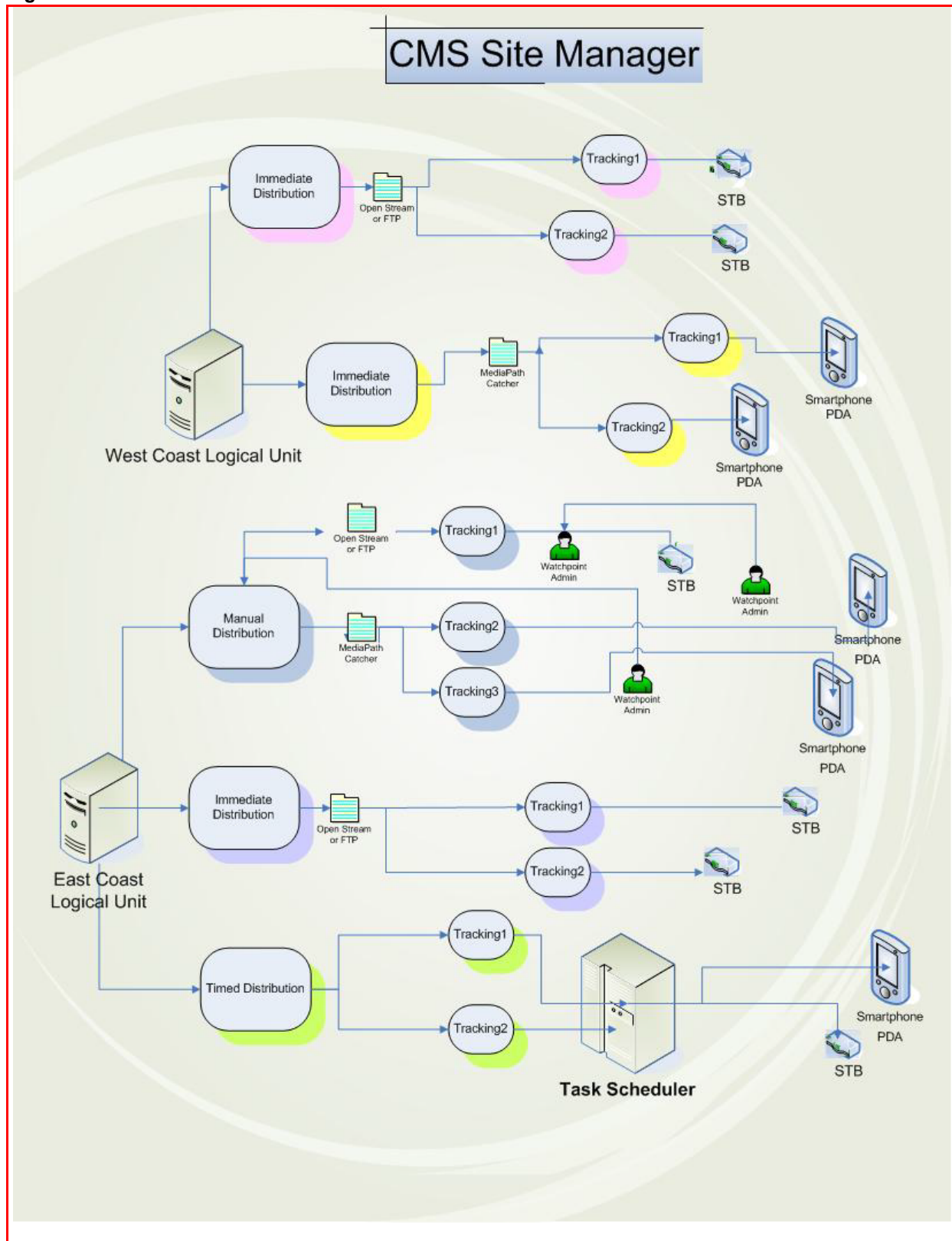
A logical site is a grouping of tracking or distribution sites. Support for logical sites enables creation of a site hierarchy and also makes it easier to apply rules to multiple child nodes.

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, 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*, a different plugin is used than the one that is used to access a mobile device.

Figure 10.1: Distribution Flowchart



Other Supported Site Types

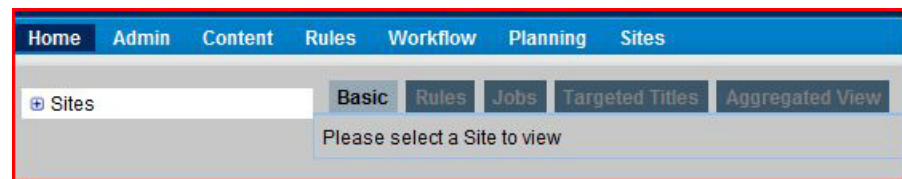
Figure 10-1 shows a sample configuration of how sites might be set up, however, sites are defined as any platform or location that receives content. This could be a publishing system, a web portal such as Youtube, an IPTV system, or an FTP folder. In these cases, the tracking site might use MediaPath Catcher locations to track the status, and the distribution site may employ Openstream or MediaPath Manager.

Viewing Sites

To display a list of active sites:

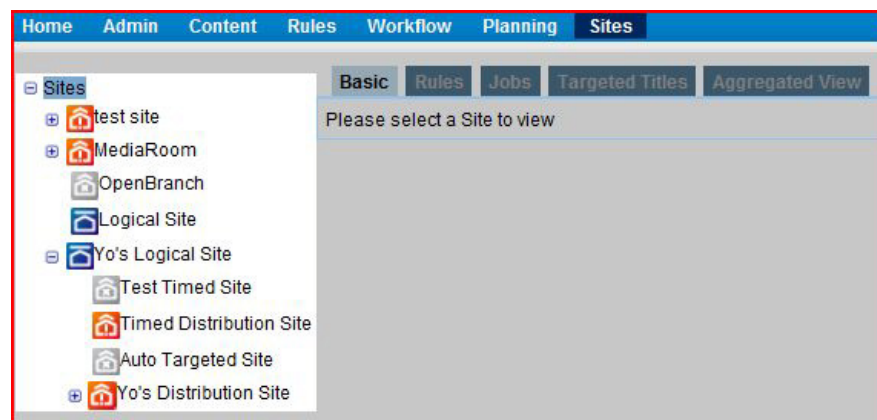
1. From the **Sites** menu, select **View**. The screen displays the following:

Figure 10.2: View List of Sites



2. To navigate the directory, click the plus sign to expand the site and display its child sites.

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 *Chapter 2*.

Displaying Site Details

For the following examples, we will use a distribution site. To display site details:

1. Click on the desired site name from the expanded list. The screen displays the following:

Figure 10.4: Distribution Site Details

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 *Chapter 2*.
- **Name** – Unique name given to identify the site.
- **Site Type** – Can be Distribution, Logical or tracking.
- **Description** – Describes the type of distribution site and what it is used for.
- **File Lookup Keys**– Keys used to lookup the distribution pathway, such as VOD or Original.
- **Metadata Format**– The format that the Metadata must conform to, such as CableLabs VOD1.1.
- **Distribution Option**– Can be timed, manual or immediate as described in the previous section.
- **Distribution Configuration**– How the content will be sent. Available distribution templates are displayed here along with any required information. If the template requires a specific resource, the associated resource should be populated.

- *Alert Delay Period*– The number of minutes the alert will be delayed.
- *Distribution Status Plugin*– The plugin which helps track the distribution status of titles distributed by this site. The plugins displayed in the drop down are developed per customer specifications.
- *Deployment Status Plugin* – The Plugin which helps track the deployment status of titles to child tracking sites that were distributed by this Distribution site. The plugins displayed in the drop down are developed per customer specifications.



Site Status icons are described in Chapter 2.

From this screen, you can perform the following options:

- Click **Save** to add a distribution site.
- Click **Delete** to delete a distribution site.
- To de-activate the distribution site, click **Inactivate**. This option is described in the next section.

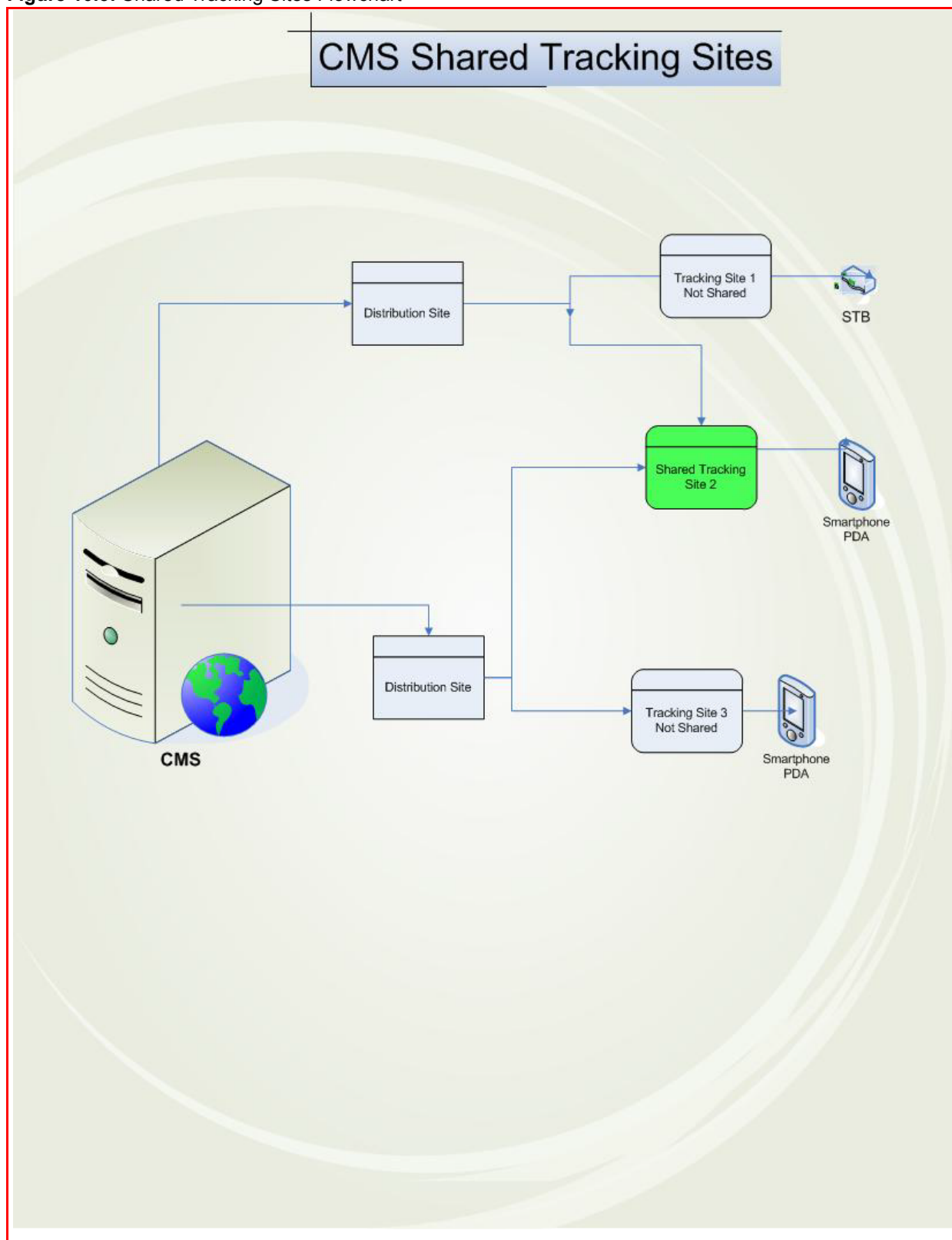


If there was a previously configured status plugin which no longer exists, an indicator (red exclamation icon) is displayed indicating that the status plugin is invalid and user should change it.

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 using different formats.

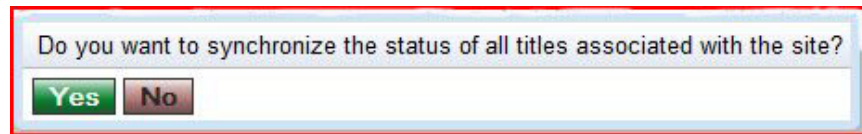
Figure 10.5: Shared Tracking Sites Flowchart



Activating and De-Activating Sites

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 activate the site without updating the title status. 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

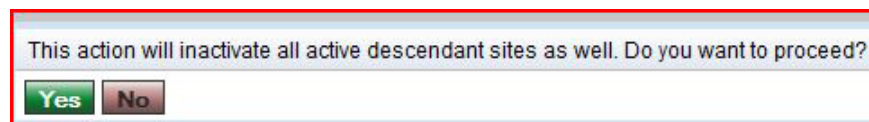
 A screenshot of a web application interface. At the top, there are tabs: "Basic", "Rules", "Jobs", "Targeted Titles" (which is selected), and "Aggregated View". Below the tabs, a message says "Succeeded synchronizing the status for titles associated with the site." followed by "Status: ". Below this is a form with several fields:

- * Name: Tracking 2
- Site Type: Tracking (dropdown menu)
- * External Id: 0002
- Description: (empty text area)
- * Alert Delay Period: (empty text field) minutes
- Deployment Status Plugin: com.ericsson.title.status.deployment.test.plugin#Deployment_JW1_Plugin (dropdown menu)

 At the bottom of the form are three buttons: "Save" (green), "Inactivate" (grey), and "Delete" (grey).

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, the following message will display:

Figure 10.8: De-activate Sites Message



- b. Click **Yes** to synchronize the status, or **No** to quit.
2. The Status icon will change to a red X and the screen will display the following confirmation:

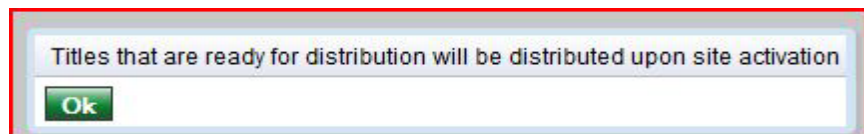
Figure 10.9: De-activated Site Message

The screenshot shows a web interface for managing sites. At the top, there are tabs: Basic, Rules, Jobs, Targeted Titles, and Aggregated View. A message at the top left states "Site was inactivated successfully" with a red 'X' icon. A green arrow points from this message to the "de-activation message" label. The form contains several fields: Name (MediaRoom), Site Type (Distribution), External Id (1), Description (CableLabs distribution), File Lookup Keys (empty), 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), and Polling Interval (90000). At the bottom, there are buttons for Save, Activate, and Delete.

Re-Activating from Immediate Distribution Sites

If you wish to re-activate a title from an immediate distribution site, after repeating the activation steps shown above, the following message will display:

Figure 10.10: Site Manager Menu



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

For this example, we will create a new Logical Site:

1. Select **Sites ->View**. The list of 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

A screenshot of a web application form titled 'Create New Logical Site'. The form is enclosed in a red rectangular border. At the top, there are several tabs: 'Basic', 'Rules', 'Jobs', 'Targeted Titles', and 'Aggregated View'. Below the tabs, there is a 'Status' field with a red 'X' icon. The form contains several input fields: 'Name' (required, marked with an asterisk), 'Site Type' (a dropdown menu currently showing 'Logical'), 'External Id' (required, marked with an asterisk), and 'Description'. At the bottom of the form, there is a green 'Save' button.

3. Fill in the required fields. The *Site Type* field automatically contains *Logical* and is not editable.
4. Click **Save**. The confirmation will display.
5. 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. At the top, there are five tabs: Basic, Rules, Jobs, Targeted Titles, and Aggregated View. The 'Basic' tab is selected. Below the tabs, there is a 'Status:' label with a red 'X' icon. The form contains several fields, some marked with a red asterisk to indicate they are required. The fields are: 'Name' (text input), 'Site Type' (dropdown menu showing 'Distribution'), 'External Id' (text input), 'Description' (text area), 'File Lookup Keys' (dropdown menu showing 'MOVIE-ORIGINAL'), 'Metadata Format' (dropdown menu), 'Distribution Option' (dropdown menu showing 'Immediate'), 'Distribution Configuration' (dropdown menu), 'Alert Delay Period' (text input followed by 'minutes'), 'Distribution Status Plugin' (dropdown menu), and 'Deployment Status Plugin' (dropdown menu). A green 'Save' button is located at the bottom left of the form.

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

Validation Failed: [contextId Parameter Value is required., scheduledId Parameter Value is required., ftpLocation Parameter Value is required.]
Status: ✖

Basic | Rules | Jobs | Targeted Titles | Aggregated View

* Name: DODDistribution
 Site Type: Distribution
 * External Id: redneck
 Description: Military channel
 File Lookup Keys:
 * Metadata Format: CableLabsVOD1.1
 * Distribution Option: Immediate
 * Distribution Configuration: Asset Distribution - FTP
 * Context Id:
 * Schedule Id:
 * FTP Location:
 * 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
 Save

Failure messages

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.
 - *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. Typical selections include *Content Distribution - FTP*.
 - *Alert Delay Period*– Time in minutes after which the status of the title will be set to *FAILED* if no status is received from the downstream.
 - *Distribution Status Plugin* – Select the plugin from the drop-down menu. The plugins displayed in the drop down are developed per customer specifications

- *Deployment Status Plugin*– Select the plugin from the drop-down menu. The plugins displayed in the drop down are developed per customer specifications

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.

Timed Distribution Sites

The Job name is automatically populated for timed sites. If you selected **Timed** from the Distribution Option drop-down, you will also get the option to edit the timer after you have created the timed site. Click on [Edit Timer](#) from the screen displayed below:

Figure 10.16: Edit Timer Option

* Name: Test Timed Site

Site Type: Distribution

External Id: 2090

Description: Test timed site

File Lookup Keys: BOXCOVER-VOD, POSTER-ORIGINAL, MOVIE-VOD

Metadata Format: CableLabsVOD1.1

Distribution Option: Timed [Edit Timer](#)

Distribution Configuration:

Clicking this option brings up the following screen:

Figure 10.17: 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

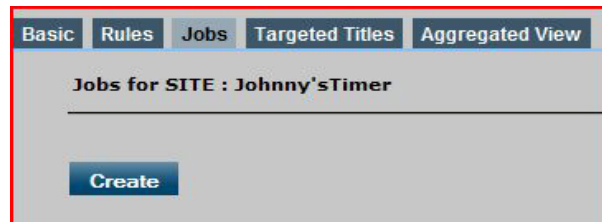
* Denotes Required Field

4. 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 10.18: Created Timed Distribution Job



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.

Child Tracking Sites

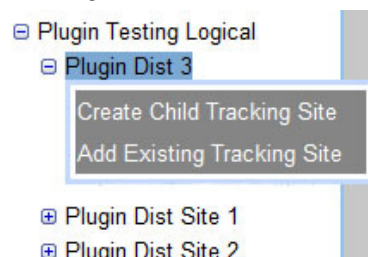
Distribution Sites can have child tracking sites. These sites will not have as many parameters. These child sites can be edited, created, or disassociated from the parent site.

1. To edit a child tracking site, click on the parent site to display the associated child sites.
2. Click on the child site and enter the required information. Required fields are marked with an asterisk. See ["Editing a Distribution Site" on page 181](#) for a description of these fields.

Creating Child Tracking Sites

To create a child tracking site, right click the parent site. The following popup displays:

Figure 10.19: Create Child Tracking Site



1. Select *Create Child Tracking Site*. The following screen displays:

Figure 10.20: Create Child Tracking Site

Basic Rules Jobs Targeted Titles Aggregated View

Status:

* Name

Site Type

* External Id

Description

* Alert Delay Period minutes

Deployment Status Plugin

2. Fill in the required fields. See ["Editing a Distribution Site" on page 181](#) for a description of these fields.
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 to Existing Tracking Site*. The following screen displays:

Figure 10.21: Existing Child Tracking Site List

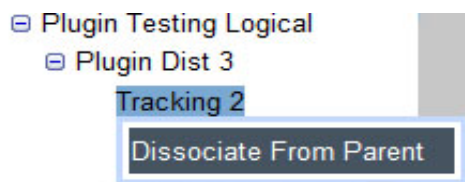
	Name	External Id	Description
<input type="checkbox"/>	Yo's Tracking Site 2	2003	Tracking site 2
<input type="checkbox"/>	Yo's Tracking Site 1	2002	Tracking Site 1
<input type="checkbox"/>	Tracking 6	t6	
<input type="checkbox"/>	Tracking 8	t8	
<input type="checkbox"/>	Tracking site for MR	mediaroom TR	
<input type="checkbox"/>	Test Tracking Site A	2	
<input type="checkbox"/>	Tracking 9	t9	
<input type="checkbox"/>	Tracking 10	t10	
<input type="checkbox"/>	Tracking 1	t1	
<input type="checkbox"/>	Tracking 2	t2	
<input type="checkbox"/>	Tracking 3	t3	
<input type="checkbox"/>	Tracking 4	t4	
<input type="checkbox"/>	Tracking 5	t5	
<input type="checkbox"/>	Tracking 7	t7	
<input type="checkbox"/>	DOE	666	Department of Energy child

2. Check the sites you wish to add from the list. 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.

Disassociating Child Tracking Sites

To disassociate a shared child site from a parent site, right click on the child site. The following popup displays:

Figure 10.22: Disassociate Child 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 as described in the previous section. A child distribution site will contain all of the same fields as a parent distribution site with the addition of the External ID field. 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.

Rules

The Rules tab is available for Logical and Distribution sites only. Rule Sets for Distribution Sites can be created or dis-associated. Rules set at the logical site are applicable to all distribution sites under it. Editing the ruleset from any child distribution site change the ruleset 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.

Click on the **Rules** tab. The screen displays the following:

Figure 10.23: Rule Sets

BasicRulesJobsTargeted TitlesAggregated View

Validation Rule Sets

	ID	Enabled	Rule Set Name	Update Date
<input type="checkbox"/>	2		Validation Rule - Distribution Site 3 - FAIL	2010-05-12 12:43:58
<input type="checkbox"/>	548		Validation rule 1	2010-05-20 15:56:12
<input type="checkbox"/>	757		test	2010-05-20 13:20:04
<input type="checkbox"/>	766		ESPNonemptypackages	2010-05-21 12:05:45

CreateDissociate

Normalization Rule Sets

	ID	Enabled	Rule Set Name	Update Date
<input type="checkbox"/>	765		ATTnoblanks	2010-05-21 12:00:45

CreateDissociate

Content Processing Rule Sets

	ID	Enabled	Rule Set Name	Update Date
--	----	---------	---------------	-------------

CreateDissociate

Rule sets can be used for Validation, Normalization, and Content Processing. See *Chapter 5 - Rules* for more details.

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.

Click the **Create** button to create another rule set for this site. 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

Validation Rule Sets

Rule sets were dissociated successfully

	ID	Enabled	Rule Set Name	Update Date
--	----	---------	---------------	-------------

CreateDissociate

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

Validation Rule Set Details: Daniel, você não pode salvar este recurso.

Sites

☒ Global
☒ Local
Select: [All](#) [None](#)

☒ DODDistribution
☒ test site
☒ MediaRoom
☒ Johnny'sTimer
☒ demo
☒ OpenBranch
☐ junk
☒ Logical Site
☒ Yo's Logical Site
☒ Logical Site 1
☐ test logical
☒ LucyLuLogic
☒ Test Refresh

Title Filter

☐ Not Content Class Equals Default -
AND + ()

Validation Criteria

When this is true:

☐ Not Content Class Equals Default -
☒ Not Title Status Equals Retired ☐ Ignore Case -
AND ☐ Not Package.Asset Nan Equals DANIEL'S ASS ☒ Ignore Case -
OR ☐ Not Package.Asset Clas Equals package ☐ Ignore Case -
+ ()

Return this **WARN** message Daniel, você não pode salvar este recurso.

Delete

Create Rule

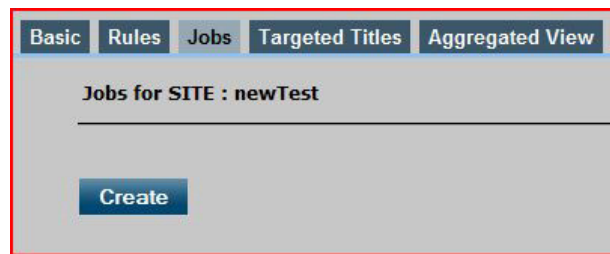


You can also display the Rule Set details by clicking on the Rule Set Name from the list. This can be done for all types of rule sets.

Creating and Deleting Jobs

Jobs for Distribution Sites can be created, viewed or deleted. Click on the **Jobs** tab. The screen displays the following:

Figure 10.26: Jobs for Site



To create a job:

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

Figure 10.27: Jobs for Site

A screenshot of a web form titled 'Create job for SITE : newTest'. The form contains several sections: 'Job Name' with a text input field containing 'NewATTSHO'; 'Job Schedule Information' with a radio button for 'Associate with Titles' (set to 'Yes'), a 'Job Schedule Rule' section with 'Start Date' and 'End Date' pickers, and a frequency selector set to '3 day(s) before' followed by a date and time picker set to '\$Title Metadata.Title.Asset Rights Information.Licensing Window End' at '12:00 am'; 'Execute Rule Set' and 'Execute Work Order' radio buttons, with 'Execute Work Order' selected, showing a 'Priority' dropdown set to 'HIGHEST' and a 'Template' dropdown set to 'Date Test5'; and 'Job Parameters' with four fields: 'Required Date' (with a parameter reference '\$Title Metadata.Poster.Asset Identifier.Asset ID'), 'Required Read Only Date' (with '\$Title.Id'), 'Optional Date', and 'Optional Read Only Date', each with a date picker. At the bottom are 'Save' and 'Cancel' buttons, and a legend indicating that an asterisk denotes a required field and a dropdown arrow indicates a 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. All rulesets marked with *Schedule event* are displayed in this 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

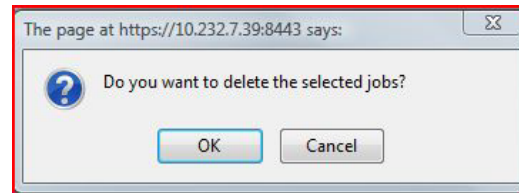
Jobs for SITE : newTest

<input type="checkbox"/>	Name	<u>Id</u>	<u>Template/Ruleset Name</u>	<u>Job Schedule Rule</u>
<input type="checkbox"/>	NewATTSHQ	14	Date Test5	3 day(s) before Title Metadata - Licensing Window End at 12:00 am
<input type="button" value="Create"/>		<input type="button" value="Delete"/>		

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.

Distributing Targeted Titles

The Targeted Titles screen is available for Distribution and Tracking sites. For a distribution site, it shows the distribution status of the titles that were targeted to this site. For a tracking site, it shows the deployment status of the title that was targeted to this site from its parent distribution site. Targeted Titles can be distributed or deleted. You can also run a template against a title.

- Click on the **Targeted Titles** tab. The screen displays the following:

Figure 10.30: Targeted Titles List

Targeted Titles							
<input type="checkbox"/>	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	1707		True Blood 22	XPPK0001177539263024	1	2009-08-24T00:00:00	2073-11-12T00:00:00
<input type="checkbox"/>	1706		True Blood 16	XPPK0001177539263018	1	2009-07-13T00:00:00	2073-10-01T00:00:00
<input type="checkbox"/>	1705		True Blood 15	XPPK0001177539263017	1	2009-06-29T00:00:00	2073-09-17T00:00:00
<input type="checkbox"/>	1704		True Blood 17	XPPK0001177539263019	1	2009-07-20T00:00:00	2073-10-08T00:00:00
<input type="checkbox"/>	1703		True Blood 18	XPPK0001177539263020	1	2009-07-27T00:00:00	2073-10-15T00:00:00
<input type="checkbox"/>	1702		True Blood 14	XPPK0001177539263016	1	2009-06-22T00:00:00	2073-09-10T00:00:00
<input type="checkbox"/>	1701		True Blood 13	XPPK0001177539263015	1	2009-06-15T00:00:00	2073-09-03T00:00:00
<input type="checkbox"/>	1700		The Wire 60	XPPK0001177539263013	1	2009-08-10T00:00:00	2073-10-29T00:00:00
<input type="checkbox"/>	1699		Tropic Thunder	XPPK0001177539263014	1	2009-08-10T00:00:00	2073-10-29T00:00:00
<input type="checkbox"/>	1698		The Wire 56	XPPK0001177539263009	1	2009-08-10T00:00:00	2073-10-29T00:00:00
Delete <input type="button" value="Go"/>							
10 25 50 100 rows per page							
page 2 of 20							
go to page: 2							

- 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.
- *Asset ID* - Asset ID that uniquely identifies the specific asset.

The following displayed metadata fields are configurable and may change for another deployment.

- *Title Brief* – Abbreviated description of the title.
- *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 a title:

1. Put a check mark next to all title(s) that you wish to distribute. Select *Distribute* from the drop-down menu.
2. Click the **Go** button from the bottom of the listing as shown in the following screen:

Figure 10.31: Distribute Titles Bottom of screen

<input type="checkbox"/>	1711		10 Things I Hate About You	XPPK0001177539264000
<input type="checkbox"/>	1710		102 Dalmatians	XPPK0001177539264001
<input checked="" type="checkbox"/>	1709		William Shakespeare's Romeo + Juliet	XPPK0001177539263025
<input checked="" type="checkbox"/>	1708		True Blood 21	XPPK0001177539263023
<input checked="" type="checkbox"/>	1707		True Blood 22	XPPK0001177539263024
<div> Distribute Go </div>				





















3. The confirmation will display:

Figure 10.32: Distribution in Progress Message

Targeted Titles							
Scheduled distribution work orders for selected titles.							
<input type="checkbox"/>	Id	Status	Title Brief	Asset ID	Major Version	License Start	License End
<input type="checkbox"/>	1823			KinjalTest	1		
<input type="checkbox"/>	1715						
<input type="checkbox"/>	1714		A Little Princess	XPPK0001177539264003	1	2009-08-14T00:00:00	2073-11-02T00:00:00
<input type="checkbox"/>	1713		sholay	1	10		
<input type="checkbox"/>	1712						
<input type="checkbox"/>	1711		10 Things I Hate About You	XPPK0001177539264000	1	2009-08-07T00:00:00	2073-10-26T00:00:00
<input type="checkbox"/>	1710		102 Dalmatians	XPPK0001177539264001	1	2009-08-04T00:00:00	2073-10-23T00:00:00
<input type="checkbox"/>	1709		William Shakespeare's Romeo + Juliet	XPPK0001177539263025	1	2009-08-24T00:00:00	2073-11-12T00:00:00
<input type="checkbox"/>	1708		True Blood 21	XPPK0001177539263023	1	2009-08-17T00:00:00	2073-11-05T00:00:00
<input type="checkbox"/>	1707		True Blood 22	XPPK0001177539263024	1	2009-08-24T00:00:00	2073-11-12T00:00:00
<div> Distribute Go </div>							
<div> 10 25 50 100 rows per page page 1 of 20 go to page: 1 </div>							

4. To delete a title, put a check mark next to all title(s) that you wish to delete.
5. Select **Delete** from the drop-down menu.
6. 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.
7. 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

Targeted Titles						
Scheduled work orders for selected titles.						
	<u>Id</u> ▾	<u>Status</u>	<u>Title Brief</u>	<u>Asset ID</u>	<u>Major Version</u>	<u>License Start</u>
	1823			KinjaTest	1	
	1714		A Little Princess	XPPK0001177539264003	1	2009-08-14T00:00:00
	1713		sholay	1	10	
	1712					
	1711		10 Things I Hate About You	XPPK0001177539264000	1	2009-08-07T00:00:00
	1710		102 Dalmatians	XPPK0001177539264001	1	2009-08-04T00:00:00
	1709		William Shakespeare's Romeo + Juliet	XPPK0001177539263025	1	2009-08-24T00:00:00
	1708		True Blood 21	XPPK0001177539263023	1	2009-08-17T00:00:00
	1707		True Blood 22	XPPK0001177539263024	1	2009-08-24T00:00:00
	1706		True Blood 16	XPPK0001177539263018	1	2009-07-13T00:00:00
Run Template ▾ Asset Distribution - FTP <input type="button" value="Go"/>						

8. Select the template that you want to run from the drop-down menu.
9. Click the **Go** button from the bottom of the listing. A confirmation message is displayed.

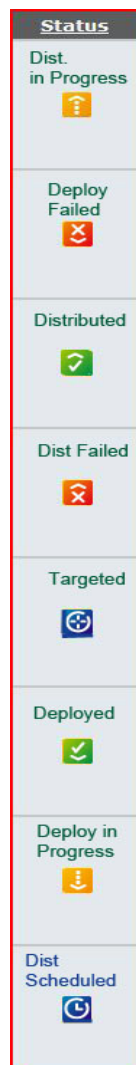
Targeted Titles Statuses

Targeted titles can have three possible statuses:

- Targeted - The title has been successfully targeted
- Deployment In Progress - Deployment has started for this asset on the downstream represented by this tracking site.
- Deployed (not distributed) - Successfully deployed at downstream represented by this tracking site.
- Failed - The title failed deployment at the downstream represented by this tracking site.

The screen below shows the title status icons:

Figure 10.34: Targeted Titles Status Icons



Displaying Aggregated Views

The Aggregated Titles View is available for Logical and Distribution sites only. For a logical site, it displays all titles distributed and deployed from all of its child distribution sites. For a distribution site, it shows all titles distributed and deployed from all of its child tracking sites. The Aggregated Views function gives you 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.

1. 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	Deployed	Not deployed
integration test	0	0	0	0	1 12	0	0	0	0	0
hari became pot	0	0	0	0	1 12	0	0	0	0	0
modE2E	0	0	0	0	1 12	0	0	0	0	0
Pride	0	0	0	0	1 12	0	0	0	0	0
modE2E	0	0	0	0	1 12	0	0	0	0	0
	0	0	0	0	1 12	0	0	0	0	0
Test tape 1.0	0	0	0	0	1 12	0	0	0	0	0
Tribute to Liza Minnelli	0	0	0	0	1 12	0	0	0	0	0
	0	0	0	0	1 12	0	0	0	0	0
	0	0	0	0	1 12	0	0	0	0	0

10 25 50 100 rows per page

page 1 of 20

go to page: 1

This screen contains the following fields:

- *Title Brief*– Unique identifier given to the title. This column is configurable and may change for another deployment.
- *Targeted* - Number of titles that have been targeted to this distribution site, and to any child distribution site associated with this site.
- *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.

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 Chapter 4, with another method for accessing them.

Click the link under the *Title Brief* field. The screen displays the following:

Figure 10.36: Title Details View from Aggregated View Screen

Title Details: New 2008 Silverado

Metadata History Sites Activity

Package
Title
Movie

Metadata

Asset Name: GM_GMCC5671_08SilverLongForm_49627P
Asset Class: package
Package Asset ID: GMGM2008010700000770
Creation Date: 2007-12-06 00:00:00
Description: GM_GMCC5671_2008SilveradoLongForm package
Product: MOD
Provider Name: GM
Provider ID: comcast.com
Version Major: 1
Version Minor: 0
Verb:
Application Type: MOD
Metadata Specification Version: CableLabsVOD1.1

Provider Content Tier
SPOTLIGHT_ALL

Custom Fields

Save Save as Draft Preview Cancel

To view the XML metadata for this Title, click the **Preview** button. The screen displays the following:

Figure 10.37: Title Metadata from Aggregated Views screen

Title Details: New 2008 Silverado

Metadata History Sites Activity

CableLabsVOD1.1 Title Revision: Current

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<ADD>
  <Metadata>
    <AMS Asset_Class="package" Asset_ID="GMGM2008010700000770" Asset_Name="GM_GMCC5671_08SilverLongForm_49627P" Creation_Date="2007-12-06"
      Description="GM_GMCC5671_2008SilveradoLongForm package" Product="MOD" Provider="GM" Provider_ID="comcast.com" Verb="" Version_Major="1" Version_Minor="0"/>
    <App_Data App="MOD" Name="Provider_Content_Tier" Value="SPOTLIGHT_ALL"/>
    <App_Data App="MOD" Name="Metadata_Spec_Version" Value="CableLabsVOD1.1"/>
  </Metadata>
  <Asset>
    <Metadata>
      <AMS Asset_Class="title" Asset_ID="GMGM2008010700000771" Asset_Name="GM_GMCC5671_08SilverLongForm_49627T" Creation_Date="2007-12-06"
        Description="ertydrdrastygdsgsdray eargdra rdg" Product="MOD" Provider="GM" Provider_ID="comcast.com" Verb="" Version_Major="1" Version_Minor="0"/>
      <App_Data App="MOD" Name="Type" Value="title"/>
      <App_Data App="MOD" Name="Title_Sort_Name" Value="New 2008 Silverado"/>
      <App_Data App="MOD" Name="Title_Brief" Value="New 2008 Silverado"/>
      <App_Data App="MOD" Name="Title" Value="New 2008 Silverado"/>
      <App_Data App="MOD" Name="Summary_Short" Value="It's the benchmark in trucks. See the new Chevy Silverado and Silverado HD. Hosted by Howie Long."/>
      <App_Data App="MOD" Name="Rating" Value="TV-G"/>
      <App_Data App="MOD" Name="Closed_Captioning" Value="N"/>
      <App_Data App="MOD" Name="Run_Time" Value="00:28:00"/>
      <App_Data App="MOD" Name="Display_Run_Time" Value="00:28"/>
      <App_Data App="MOD" Name="Year" Value="2008"/>
      <App_Data App="MOD" Name="Actors" Value="Chevrolet"/>
      <App_Data App="MOD" Name="Actors_Display" Value="Chevrolet"/>
      <App_Data App="" Name="Category" Value="">
      <App_Data App="MOD" Name="Genre" Value="Advertisement"/>
      <App_Data App="MOD" Name="Closed" Value="consumed"/>
    </Metadata>
  </Asset>
</ADD>
```

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 displays the following:

Figure 10.38: Viewing Title History from Aggregated Views screens

Title Details: New 2008 Silverado				
Metadata History Sites Activity				
User	Action	Date	Revision	
admin	MOVIE RECEIVED	2010-05-19 20:53	6	
admin	UPDATED	2010-05-19 20:53	6	
admin	VALIDATED	2010-05-19 20:53	6	
admin	NORMALIZED	2010-05-19 20:53	6	
admin	UPDATED	2010-05-19 10:49	5	
admin	VALIDATED	2010-05-19 10:49	5	
admin	NORMALIZED	2010-05-19 10:49	5	
admin	UPDATED	2010-05-18 14:18	4	
admin	VALIDATED	2010-05-18 14:18	4	
admin	NORMALIZED	2010-05-18 14:18	4	
WatchPoint - Workflow	VALIDATED	2010-03-30 14:08	3	
WatchPoint - Workflow	NATIONALIZED	2010-03-30 14:08	3	
WatchPoint - Workflow	METADATA RECEIVED	2010-03-30 14:08	3	
WatchPoint - Workflow	UPDATED	2010-03-30 14:08	3	
WatchPoint - Workflow	VALIDATED	2010-03-30 14:08	3	
admin	Delete From Downstream - WORK ORDER SCHEDULED	2010-02-24 15:18	2	
admin	UPDATED	2010-02-16 21:54	2	
admin	VALIDATED	2010-02-16 21:54	2	
admin	NATIONALIZED	2010-02-16 21:54	2	
WatchPoint - Workflow	VALIDATED	2010-02-03 02:21	1	
WatchPoint - Workflow	NATIONALIZED	2010-02-03 02:21	1	
WatchPoint - Workflow	METADATA RECEIVED	2010-02-03 02:21	1	
WatchPoint - Workflow	CREATED	2010-02-03 02:21	1	
WatchPoint - Workflow	VALIDATED	2010-02-03 02:21	1	

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 10.39: Aggregate Views Distribution Sites

M

Title Details: The Princess Diaries

C






Metadata

History











Sites

Activity

▼ Status

Status	Distribution Site	Title Id
 M S	test site	1185
 M S	Yo's Distribution Site	1066
 M S	Timed Distribution Site	1235
 M S	MediaRoom	1148
 M S	DODDistribution	1835

Distribution Site: All

Status	Tracking Site	Title Id	Distribution Site
	Yo's Tracking Site 1	1835	DODDistribution
	Tracking site for MR	1835	DODDistribution
	DOE	1835	DODDistribution
	Tracking 3	1148	MediaRoom
	Tracking 1	1148	MediaRoom
	Tracking site for MR	1148	MediaRoom
	Tracking 2	1148	MediaRoom
	Tracking 6	1148	MediaRoom
	Tracking 8	1148	MediaRoom
	Tracking 4	1148	MediaRoom

10

25

50

100

rows per page

⏪

⏩

page 1 of 3

⏪

⏩

go to page:

▼ Manual Targeting

Options: ☐ Using Rules ☒ Select Sites

Sites:

Yo's Distribution Site
 Timed Distribution Site
 DODDistribution
 test site
 MediaRoom

Target

The **Sites** tab contains the following fields:

- Status Section:
 - Distribution Site*– Unique name given to the site.
 - Title ID* - Unique identifier given to the title
 - 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 Chapter 2.
- Distribution Site section:
 - Tracking Site*– Unique name given to the site.

- *Title ID* - Unique identifier given to the title
 - *Distribution Site*– The site that was targeted.
 - *Status* - Should be Targeted, Deployment In Process, Deployment Failed, Distributed, Ready for Distribution, or Completed.
3. Manual Targeting section - This section is described in *Chapter 4 - Manually Targeting Titles*.

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 10.40: Aggregate Views Title Activity

M

Title Details: Ashley1027

C

Metadata

History

Sites

Activity

Current:

Status	Work Order ID	Current Task	Template	Start Time
	1676	Run Local Content Processing	Target Title - v11	2010-05-24 04:29
	1674	Move to Original File Directory	Asset Ingest - v48	2010-05-24 04:23
	1673	Move to Original File Directory	Asset Ingest - v48	2010-05-24 04:19
	1517	Initialize Variables	Target Title - v9	2010-05-13 14:04

History:

Status	Work Order ID	Current Task	Template	Start Time	End Time
	1676	Targeting Complete	Target Title - v11	2010-05-24 04:29	2010-05-24 04:29
	1675	Targeting Complete	Target Title - v11	2010-05-24 04:23	2010-05-24 04:23
	1672	Targeting Complete	Target Title - v11	2010-05-24 04:18	2010-05-24 04:19
	1671	Targeting Complete	Target Title - v11	2010-05-24 04:18	2010-05-24 04:18
	1537	Targeting Complete	Target Title - v9	2010-05-13 14:41	2010-05-13 14:41
	1401	Create Site Title	Target Title - v5	2010-04-21 12:41	2010-05-24 04:18
	1397	Targeting Complete	Target Title - v5	2010-04-20 18:15	2010-04-20 18:27
	1242	End	Asset Ingest - v48	2010-02-03 02:21	2010-02-03 02:21
	1233	End	Asset Ingest - v48	2010-02-03 02:20	2010-02-03 02:21

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. It can display a node in any work order that is using this title.
- *Template* - The template corresponding to the work order which is currently using this title.
- *Start Time*– The date and time when the work order started to operate on this title in YYYY-MM-DD HH:mm:ss format.

The *History* section of the **Activity** screen also contains the following field:

- *End Time*– The date and time when the work order completed operating on this title in YYYY-MM-DD HH:mm:ss format.

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.

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.

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 2.0 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.

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 the 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 Site: A grouping of tracking or distribution sites.

Logical unit : An abstraction of an input/output device in the form of an additional name given to the device in a computer program

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 the 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.

Provider: A provider represents the business entity that provides content and services. Within CMS Planning, the provider is seen as a source partner.

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

SCOM: System Center Operations Manager, a Microsoft server application that maintains a database that includes a history of alerts.

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.

I

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 the 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.

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.



XML: Extensible Markup Language. General purpose specification for creating custom mark-up languages.

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