

# Kaltura Video Navigator for ECM Installation and Deployment Guide

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Version: 2.0

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# Preface

This preface contains the following topics:

- [About this Guide](#)
- [Audience](#)
- [Document Conventions](#)

## About this Guide

This guide describes how to deploy the Kaltura Video Navigator for ECM. The Kaltura Video Navigator is an IBM ECM add-on compatible with IBM ECM (On Premise). If you are an ECM professional you will find the deployment process for the Kaltura Video Navigator is very similar to other IBM Navigator solutions' deployment.



**NOTE:** Please refer to the official and latest product release notes for last-minute updates. Technical support may be obtained directly from: [Kaltura Customer Care](#).

### Contact Us:

Please send your documentation-related comments and feedback or report mistakes to [knowledge@kaltura.com](mailto:knowledge@kaltura.com). We are committed to improving our documentation and your feedback is important to us.

## Audience

This guide is intended for ECM administrators.

## Document Conventions

Kaltura uses the following admonitions:

- Note
- Workflow



**NOTE:** Identifies important information that contains helpful suggestions.



**Workflow:** Provides workflow information.

1. Step 1
2. Step 2

# Introduction to the Kaltura Video Navigator for ECM

This document contains all the information you need for quick and successful deployment of the Kaltura Video Navigator for ECM. All the steps provided are standard IBM ECM installation actions. If you are an IBM ECM administrator you will find this installation to be very similar to other IBM ECM solution deployments. If you are not very experienced with IBM ECM administration, the instructions provided are conclusive and contain print screens and detailed information. If you need help with the Kaltura Video Navigator for ECM solution deployment, our technical staff will be glad to assist you.

## IBM Prerequisites

- IBM FileNet P8 5.2.1+  
Required components within FileNet P8:
  - IBM Content Navigator 2.0.2+ (running on top of the IBM FileNet repository)
  - IBM Content Search Services 5.2.1 (module running within IBM FileNet 5.2.1+)
  - IBM Case Manager v5.2+
- IBM ECM On Premise (FileNet 5.2.1+ and the related software)
- Kaltura SaaS services.

|                | IBM Navigator | ECM¹ On-Prem |
|----------------|---------------|--------------|
| Kaltura SaaS   | FUTURE        | ✓            |
| Kaltura OnPrem | ✗             | FUTURE       |

## Kaltura Prerequisites

Before starting the deployment process, be certain to contact your Kaltura representative to create a Kaltura Application Framework instance for the Kaltura Video Navigator for ECM. You should receive the following:

- A Kaltura Partner ID

Please prepare the following information for you initial discussion with your Kaltura representative:

- The launch point base URL that will be used further in the process
- The Administration application login page URL Server
- The IBM ECN Server version (Standard or Enterprise)

# Getting Started

Perform the following tasks before you install the Content navigator Plug-in.

## Custom Libraries and Configuration

### To configure custom libraries

- Create a folder on the FileNet server (*KALTURA\_CONF\_DIR*) and copy over the following libraries, archives, and configuration:
  - kaltura-api-1.0.jar
  - kaltura-cn-common-1.0.jar
  - kaltura-custom-service-1.0.jar
  - kaltura-event-handler-1.0.jar
  - kaltura-cn-plugin-1.0.4.jar
  - kaltura-code-module-1.0.jar
  - kaltura-web-handler-1.0.war
  - java-xmlbuilder-1.1.jar
  - json-simple-1.1.1.jar
  - jsoup-1.7.2.jar
  - commons-http-client-3.1.jar
  - web-handler.properties
  - kaltura-log4j.xml
- Additionally, create *KALTURA\_CONF\_DIR*\logs folder as the primary location of all log files for the solution.

## Application Server Configuration

### To configure the application server

1. Define an application server JVM variable -Dkaltura.conf.dir=KALTURA\_CONF\_DIR with the value matching the folder with Kaltura libraries and configuration. Note that the path should contain the trailing slash.

## Getting Started

Integrated Solutions Console Welcome p8admin

Cell=BPM850Node01Cell, Profile=AppSrv01

Application servers

Application servers > server1 > Process definition > Java Virtual Machine

Use this page to configure advanced Java(TM) virtual machine settings.

Configuration Runtime

General Properties

Classpath

Boot Classpath

☐ Verbose class loading

Initial heap size  
512 MB

Maximum heap size  
1024 MB

☐ Run HProf

HProf Arguments

☐ Debug Mode

Debug arguments  
-agentlib:jdwp=transport=dt\_socket,server=y,suspend=n,address=7777

Generic JVM arguments  
-Djavax.payload.highFidelity=true -Dkaltura.conf.dir=c:\kaltura\_conf

Executable JAR file name

☐ Disable JIT

Operating system name  
windows

Apply OK Reset Cancel

Additional Properties

Custom properties

## 2. Import Kaltura certificates from *kaltura.com* and *cdnsecakmi.kaltura.com*.

Integrated Solutions Console Welcome p8admin

Cell=BPM850Node01Cell, Profile=AppSrv01

SSL certificate and key management

SSL certificate and key management > Key stores and certificates > NodeDefaultTrustStore > Signer certificates > kaltura

Manages signer certificates in key stores.

General Properties

Alias  
kaltura

Version  
3

Key size  
2048

Serial number  
769

Validity period  
Valid from Nov 16, 2006 to Nov 16, 2026.

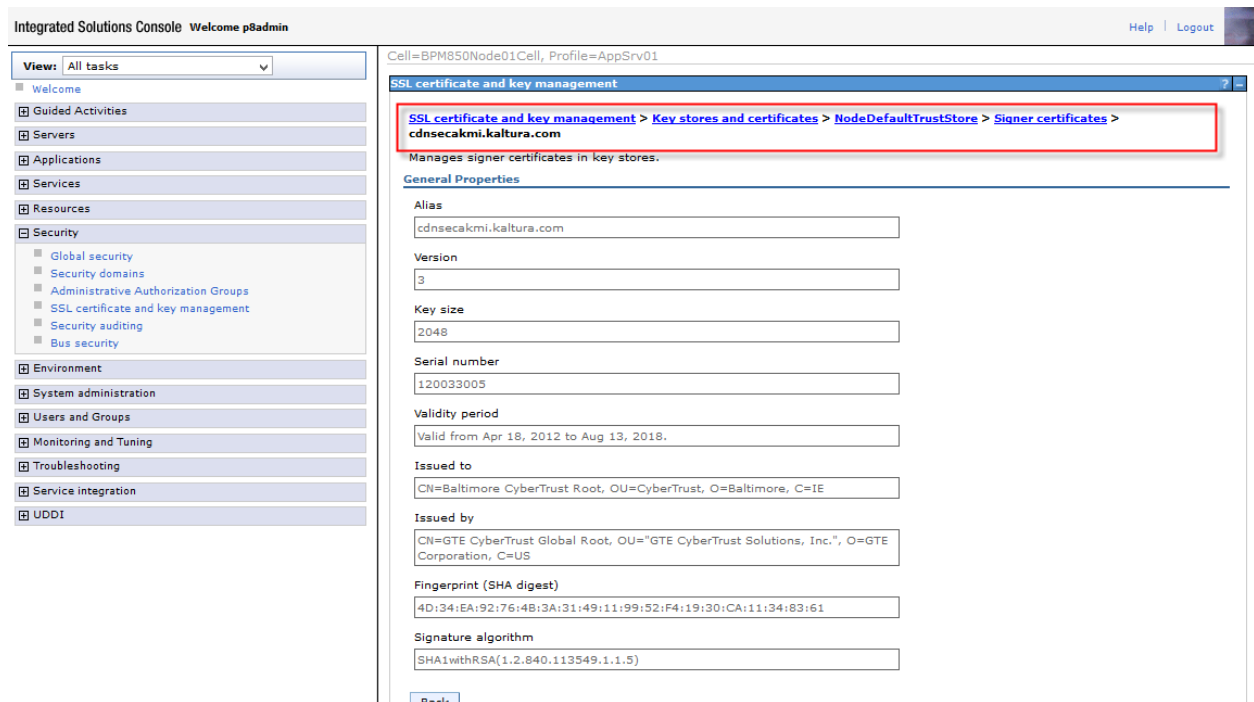
Issued to  
SERIALNUMBER=07969287, CN=Go Daddy Secure Certification Authority, OU=http://certificates.godaddy.com/repository, O="GoDaddy.com, Inc.", L=Scottsdale, ST=Arizona, C=US

Issued by  
OU=Go Daddy Class 2 Certification Authority, O="The Go Daddy Group, Inc.", C=US

Fingerprint (SHA digest)  
7C:46:56:C3:06:1F:7F:4C:0D:67:B3:19:A8:55:F6:0E:BC:11:FC:44

Signature algorithm  
SHA1withRSA(1.2.840.113549.1.1.5)





3. Copy the following libraries to the existing IBM Content Navigator deployment. Default path for IBM WebSphere Application Server is `<SERVER_HOME>\profiles\<PROFILE_NAME>\installedApps\<CELL_NAME>\navigator.ear\navigator.war\WEB-INF\lib\`.
  - commons-httpclient-3.1.jar
  - jsoup-1.7.2.jar
  - kaltura-api-1.0.jar
  - kaltura-cn-common-1.0.jar
  - kaltura-code-module-1.0.jar
  - kaltura-custom-service-1.0.jar
4. Restart Content Navigator application in the application server management console.

## Initial Kaltura Configuration

The following configuration must be performed in Kaltura, by your Kaltura representative, before deploying the Kaltura Video Navigator into an ECM FileNet environment.

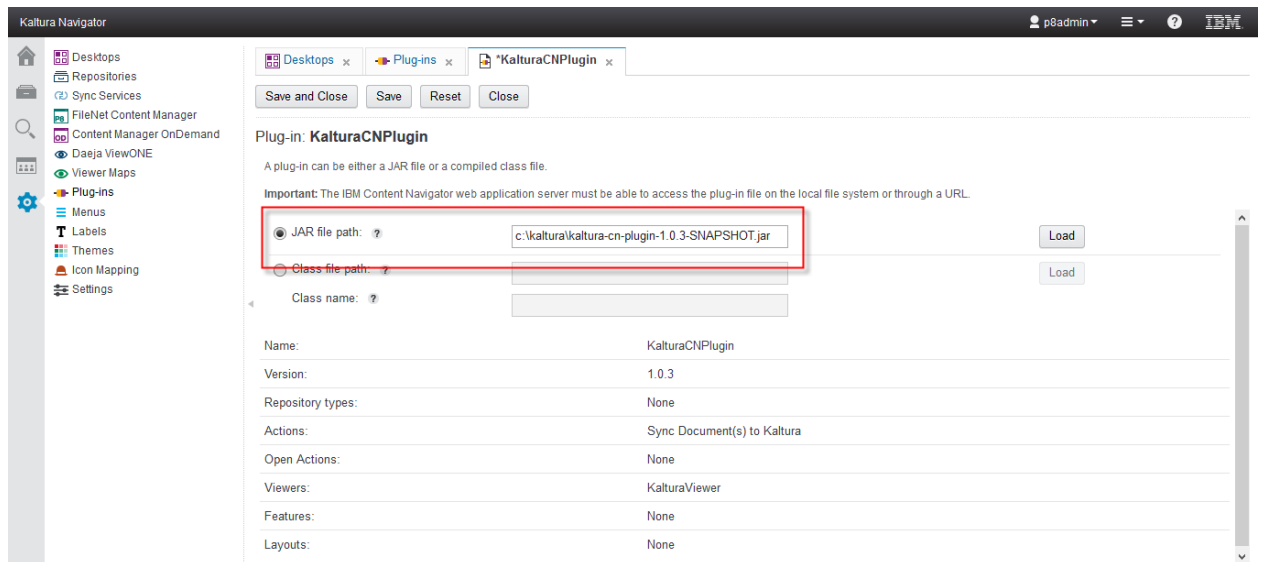
### The following steps are performed by Kaltura Support

1. Create a Kaltura Partner ID.
2. Configure a KAF instance of type ECM.
3. Create a default channel for videos:
  1. Go to the KMC, "Content" tab, and select the "Categories" sub-tab.
  2. Click "Add Category".
  3. Select "ECM > site > channels" and click "Next".
  4. Give a name to the channel (e.g. "default") and click "Save > Close".
4. Add the ECM host to the trusted hosts on the KAF host.

# Content Navigator Plug-in Installation and Configuration

## To Install the Kaltura Navigator Plug-in

1. In the Content Navigator, navigate to Administrative View, expand the Plug-ins element, and select New Plug-in action.
2. Load the Kaltura Navigator plugin from *KALTURA\_CONF\_DIR*kaltura-cn-plugin-1.0.x.jar.



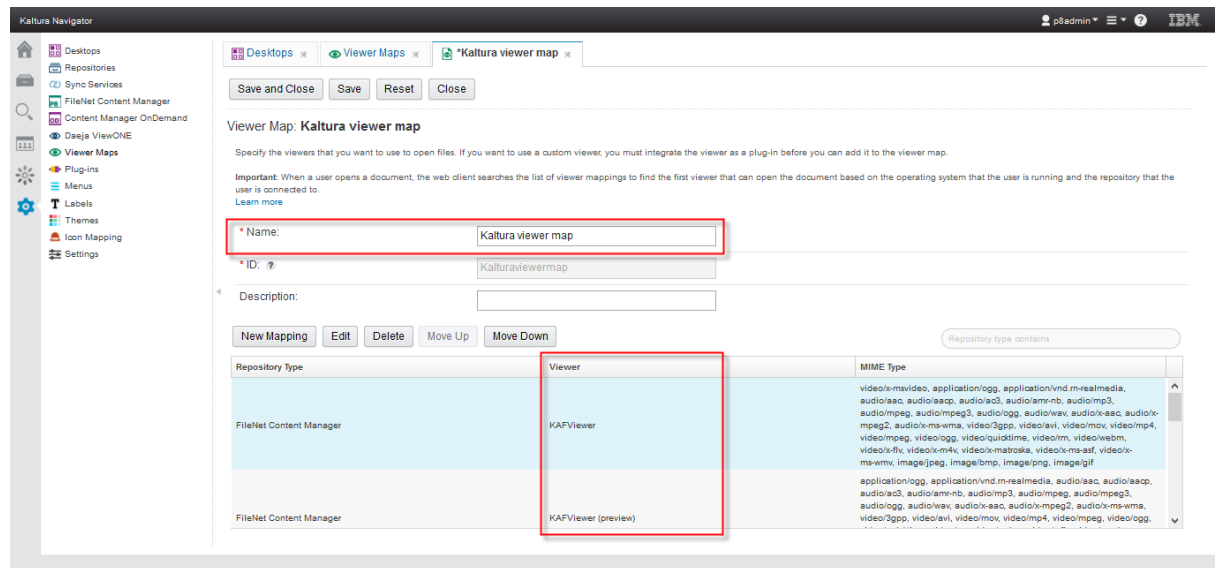
3. Save changes and reload Content Navigator.

## Define the Kaltura Viewer and Viewer Map

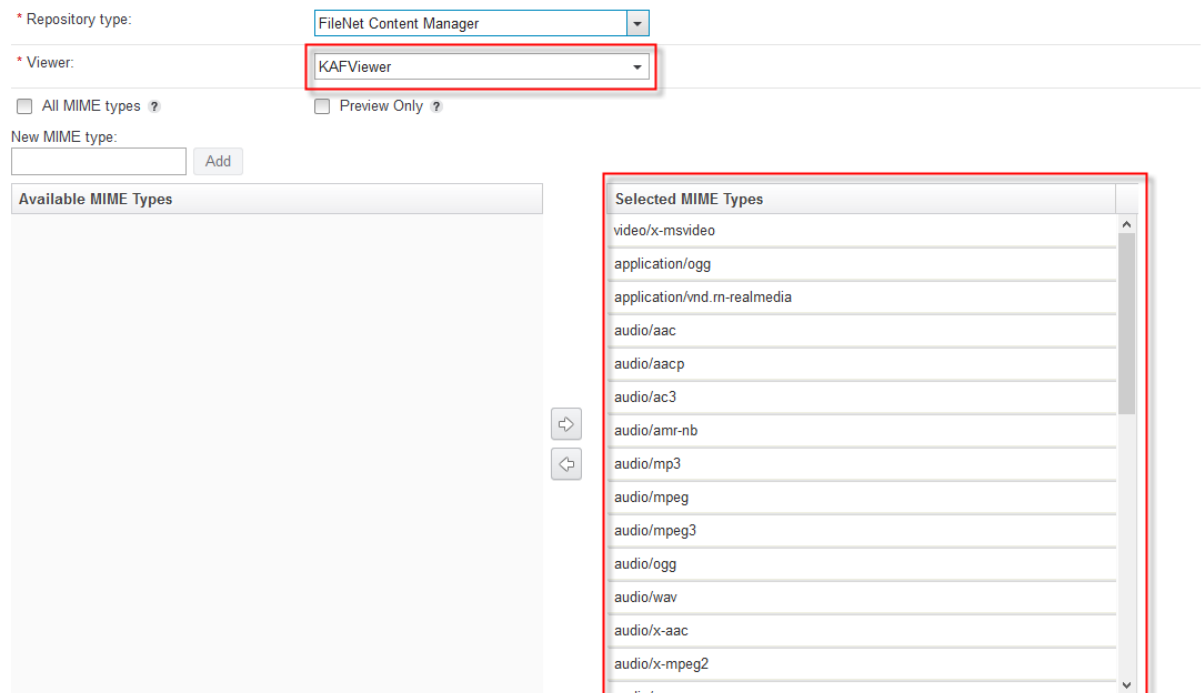
IBM Content Navigator uses viewers designed to support different MIME types. A new Kaltura Viewer should be defined in a FileNet repository configuration to allow playing and preview of videos through an embedded Kaltura player. A corresponding new viewer map or update to an existing viewer map is required for MIME types mapping.

## To define the Kaltura Viewer and Viewer Map

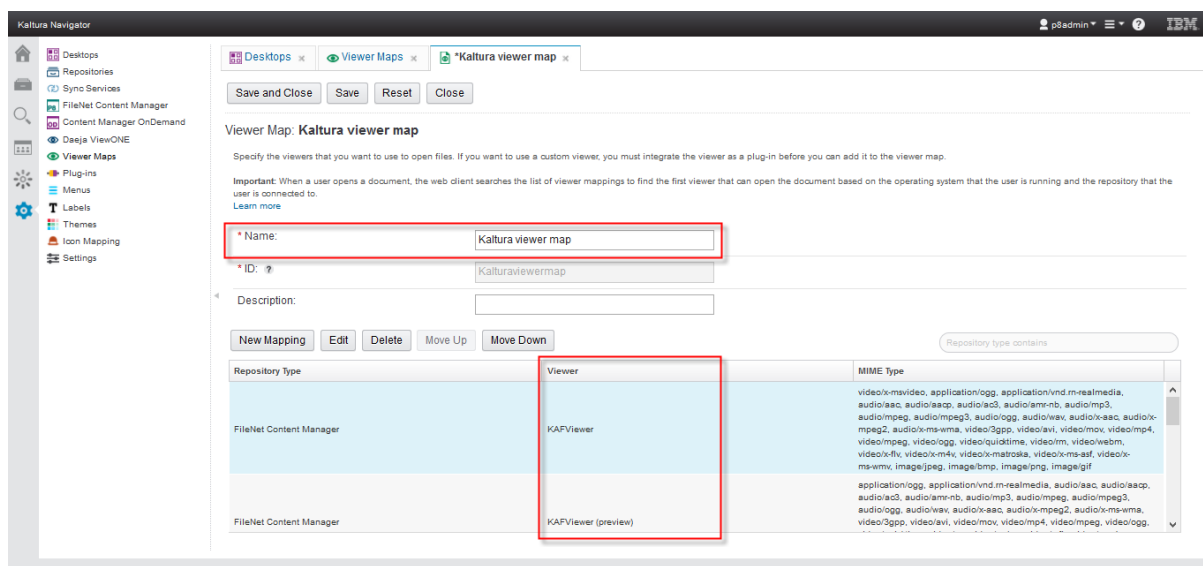
1. In Content Navigator, select Administrative View >> Viewer Maps >> New Viewer Map.
2. Create a Kaltura viewer map.



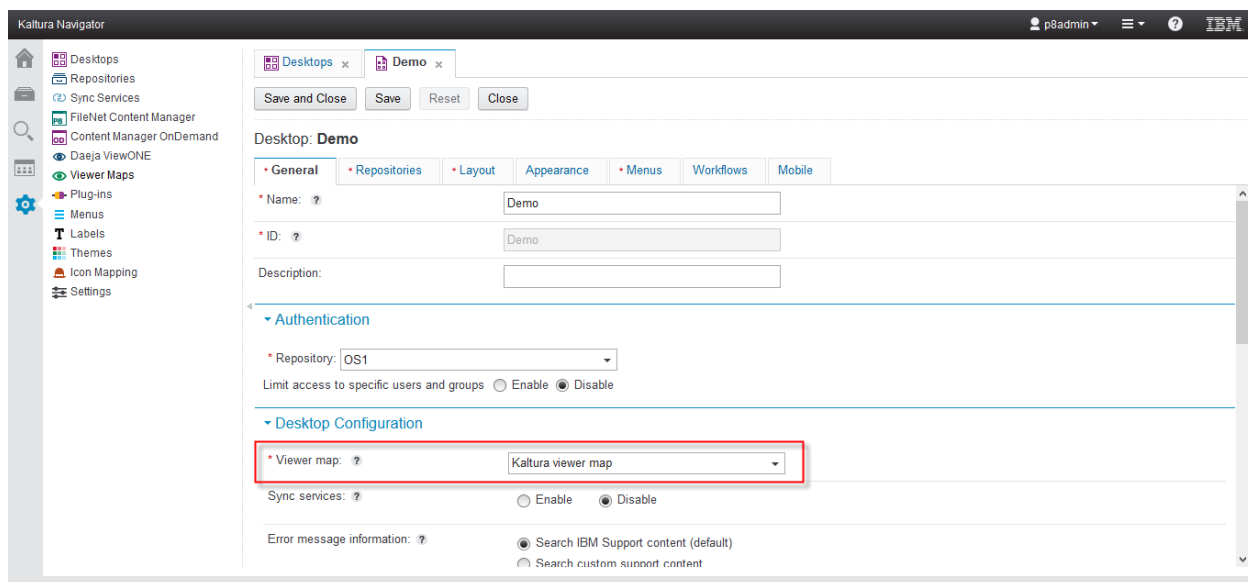
3. Select *New Mapping* and create two new mappings for *KAFViewer* and *KAFViewer (preview)* for the supported Mime Types. If required, add Mime Types in the *New MIME type* field.



4. Set Kaltura Viewer at the top of the list for FileNet Content Manager.



- Set *Kaltura viewer map* as the viewer map for a desktop with Kaltura integration.

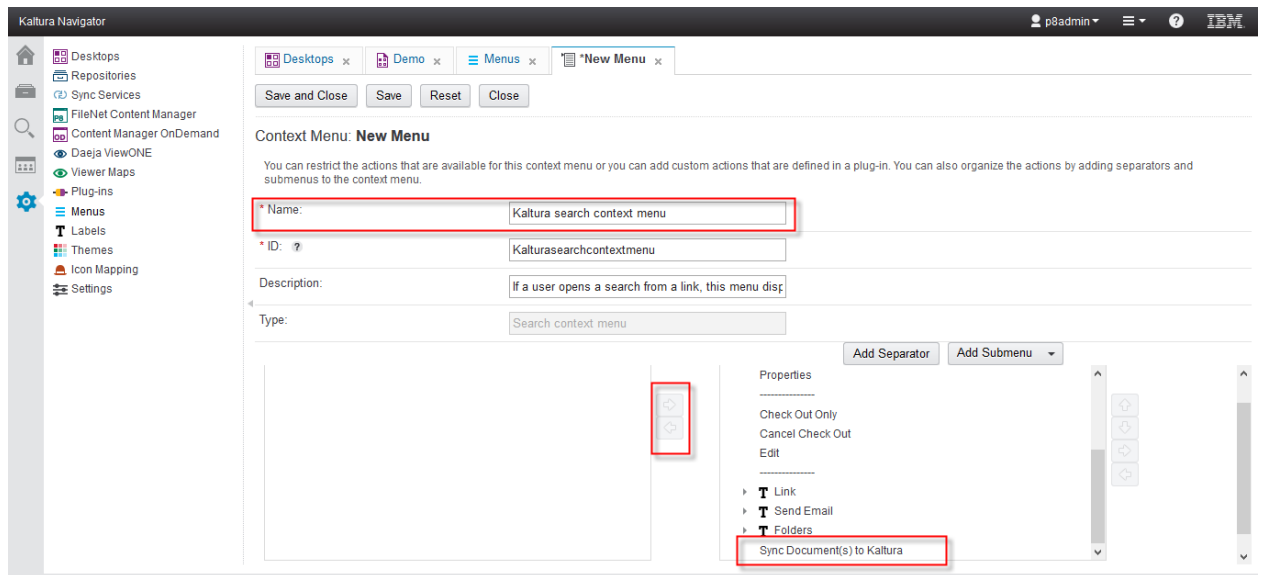


## Assign the Kaltura Sync Action

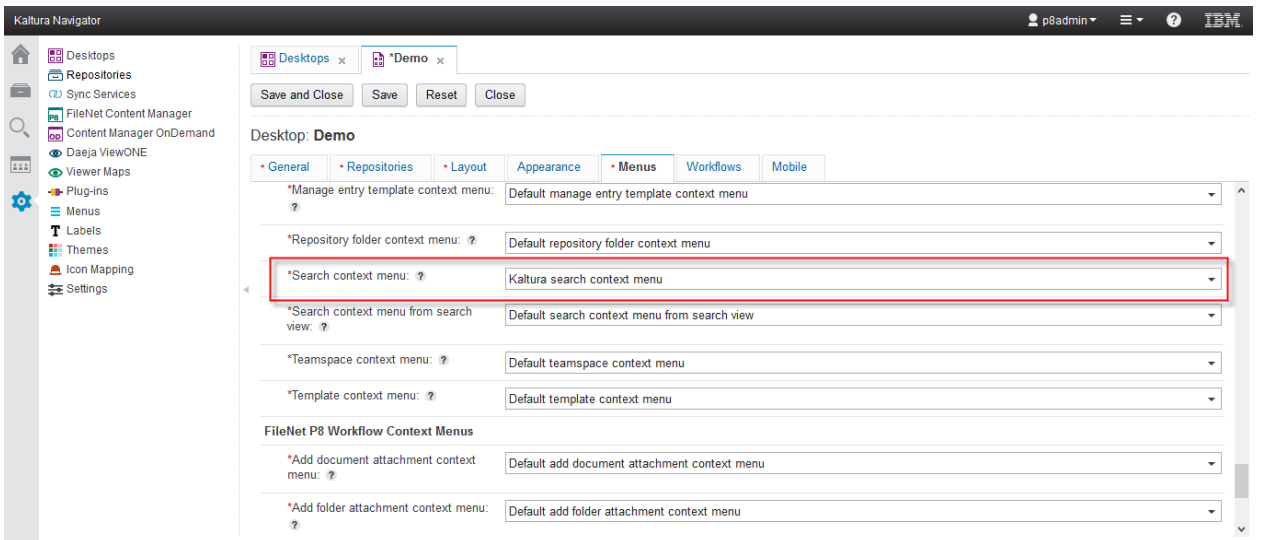
This step is optional. The Kaltura Navigator plugin includes a custom action that can be added to context menus of a Content Navigator desktop configuration to enable manual synchronization of one or multiple videos to Kaltura directly from Content Navigator interface.

### To assign the Kaltura Sync action

- Add Sync Document(s) to Kaltura action to ICN toolbars and menus as required.



2. Assign new toolbars and menus to desktops with Kaltura integration.



## Define the Kaltura Configuration

### To define the Kaltura configuration

1. In the Content Navigator, select Administrative view and then select the repository to be integrated with Kaltura.
2. Define the following Kaltura integration configuration settings in the *Kaltura* tab:
  - Kaltura Enabled = true
  - Base URL
  - KAF Base URL
  - Mime Types
  - Partner Id
  - Admin Secret
  - User Secret
  - Channel Id

## Content Navigator Plug-in Installation and Configuration

- Player Id
- Audio Player Id
- Image Player Id
- All Media Admins
- Kaltura Meta Mapping

The screenshot shows the 'Kaltura Navigator' application window. On the left is a sidebar with navigation icons for Desks, Repositories, Sync Services, FileNet Content Manager, Content Manager OnDemand, Daeja ViewONE, Viewer Maps, Plug-ins, Menus, Labels, Themes, Icon Mapping, and Settings. The main area is titled 'FileNet Content Manager repository: OS1' and contains several tabs: General, Configuration Parameters, System Properties, Browse, Search, Office Integration, IBM Connections, and Kaltura. The 'Kaltura' tab is active, showing configuration fields for Kaltura Integration (Enabled), Base URL (https://www.kaltura.com), KAF Base URL (https://1906731.kaf.kaltura.com), Mime Types (a long list of video and audio formats), Partner Id (1906731), Admin Secret, User Secret, Channel Id (28132681), and Player Id (28730961).

When you save the initial Kaltura configuration, the required FileNet configuration is created and deployment of a code module is initiated. Kaltura configuration settings become read-only (except Mime Types, Player Ids, and Kaltura Meta Mapping parameters) starting from the next login to the ICN.

Read-only fields can always be updated by modifying properties of the Kaltura Settings object in FileNet.

The screenshot shows the 'Administration Console for Content Platform Engine' window. The left sidebar shows a tree view of the object store 'OS1' with folders like Administrative, Browse, Data Design, Email Template, Events, Actions, Processes, Recovery Blins, Search, and Sweep Management. The main area displays the 'Custom Object: (70EE354B-0000-C91C-BF85-207E7A2F67C2)' with tabs for General, Properties, Folders Filed In, Annotations, Security Policy, Security, Retention, Tasks, Subscriptions, and Audit History. The 'Properties' tab is active, showing a table of properties for the Kaltura object. A red box highlights the 'Save' button and the object ID. Another red box highlights the 'KalturaAFBaseURL', 'KalturaBaseURL', 'KalturaChannelId', 'KalturaMetaMapping', 'KalturaMimeTypes', 'KalturaPartnerId', and 'KalturaUserSecret' properties, which are read-only.

| Property Name      | Property Value                                   | Data Type  | Cardinality | Settability   |
|--------------------|--|------------|-------------|---------------|
| KalturaAFBaseURL   | https://1906731.kaf.kaltura.com                  | 8 <String> | 0 <Single>  | 0 <Read-only> |
| KalturaBaseURL     | https://www.kaltura.com                          | 8 <String> | 0 <Single>  | 0 <Read-only> |
| KalturaChannelId   | 28132681   | 8 <String> | 0 <Single>  | 0 <Read-only> |
| KalturaMetaMapping | { "classes": [ { "className": "ProjectDoc" } ] } | 8 <String> | 0 <Single>  | 0 <Read-only> |
| KalturaMimeTypes   | List of Strings                                  | 8 <String> | 2 <List>    | 0 <Read-only> |
| KalturaPartnerId   | 1906731  | 8 <String> | 0 <Single>  | 0 <Read-only> |
| KalturaUserSecret  | f0e2cbe0390a12bb05387c69134f                     | 8 <String> | 0 <Single>  | 0 <Read-only> |

When Kaltura settings are saved in the new configuration frame, the process also creates custom metadata profiles for the configured partner Id in Kaltura.

Steps for manual FileNet configuration are provided in Section 7 of this document.

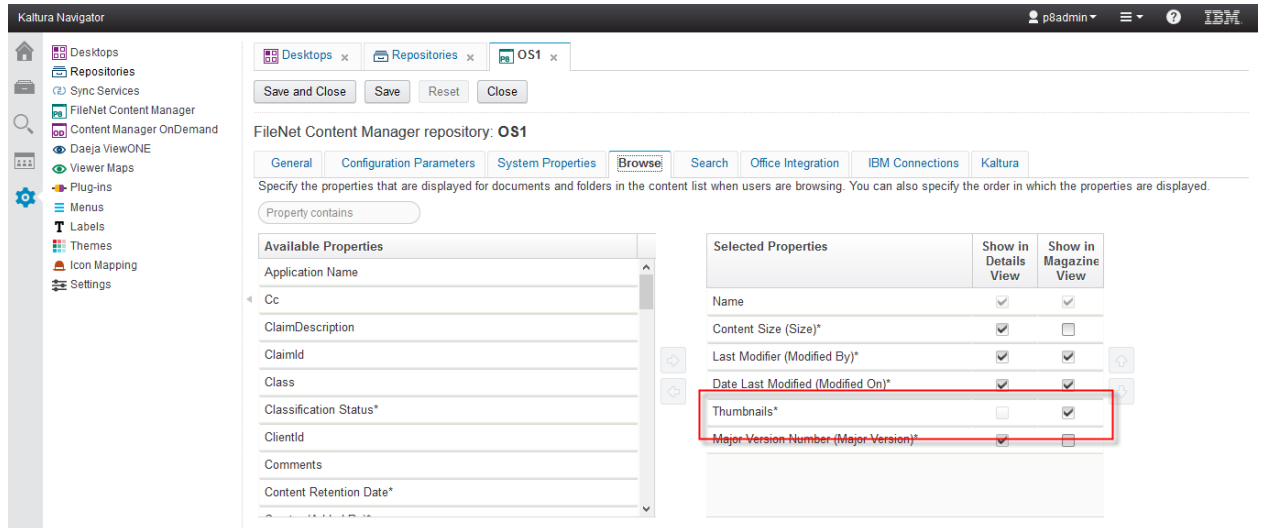
## Enable Thumbnails Support

Thumbnails support should be enabled for the repository where videos are going to be synchronized

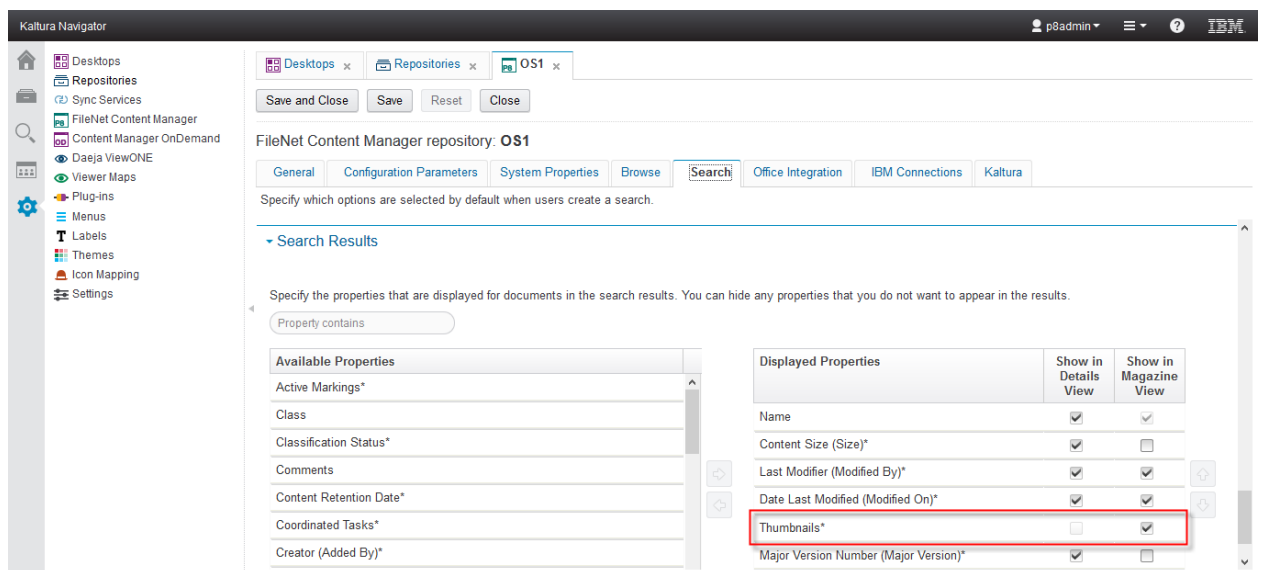
with Kaltura.

### To enable thumbnail support

1. Open the repository configuration in ICN.
2. Add the Thumbnails property to the list of displayed properties in Browse view configuration.



3. Add the thumbnails property to the list of displayed properties in Search view configuration.



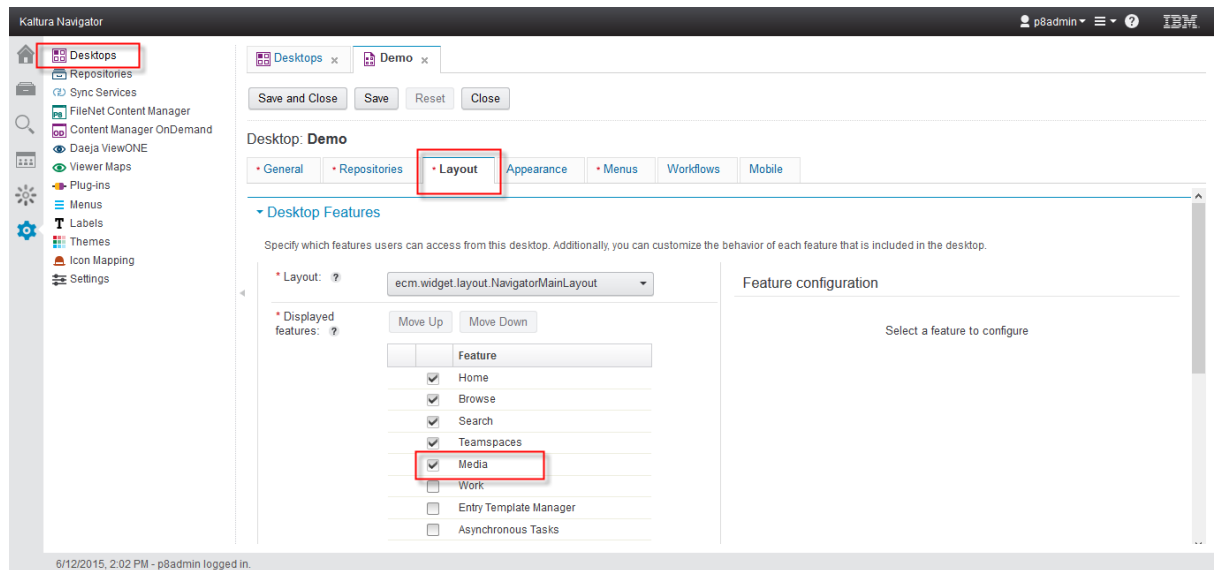
## Enable Media Feature

The new Media feature will provide access to My Media and All Media tabs in Content Navigator embedding the corresponding KAF frame endpoints.

### To enable Media feature

1. Open desktop configuration in ICN.
2. Select Media checkbox under Layouts tab. Save configuration and reload ICN.

## Content Navigator Plug-in Installation and Configuration





# Custom REST Service Installation

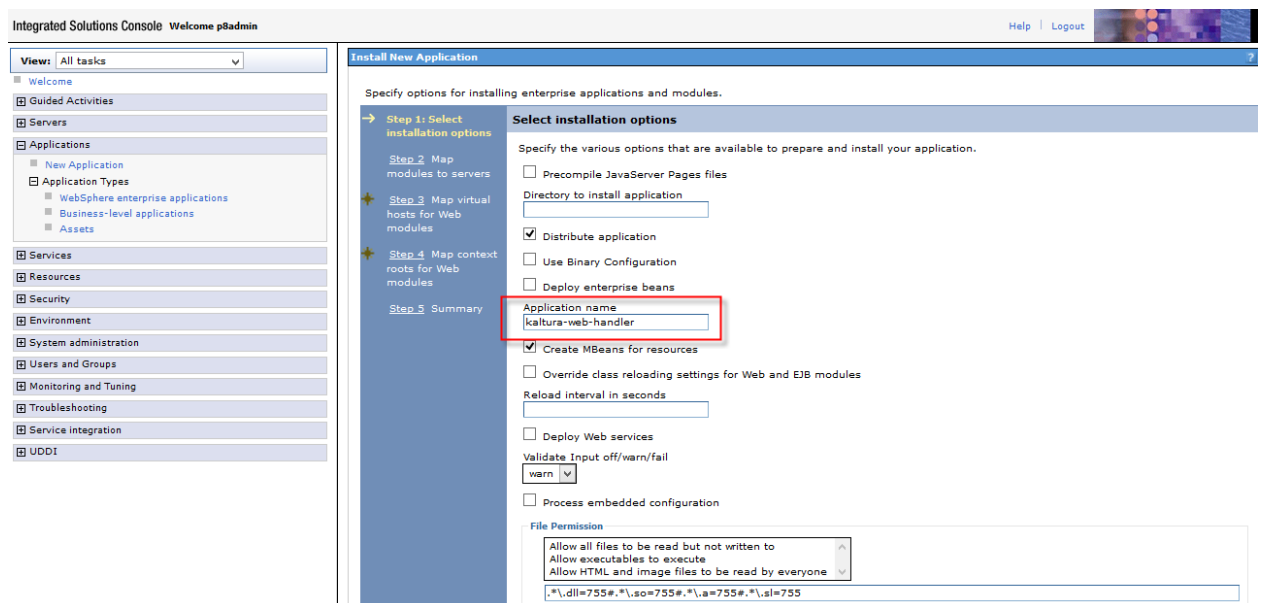
The new custom REST service is a standalone web application that listens to and processes Kaltura notification requests for synchronization of metadata, thumbnails, and captions updates from Kaltura to an ECM repository.

The application is lightweight and can be deployed to the same application server hosting FileNet and/or Content Navigator applications

## Application Deployment

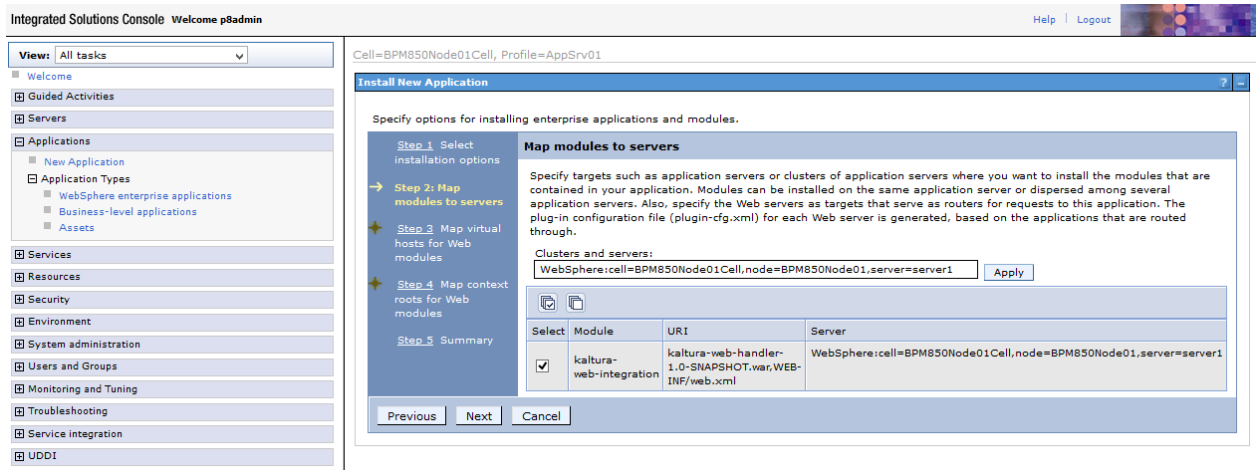
### To deploy the Kaltura-web-handler to the application server

1. Load the kaltura-web-handler-1.0.war from *KALTURA\_CONF\_DIR*.
2. Define the application as *kaltura-web-handler* in the application server and leave the default deployment settings.

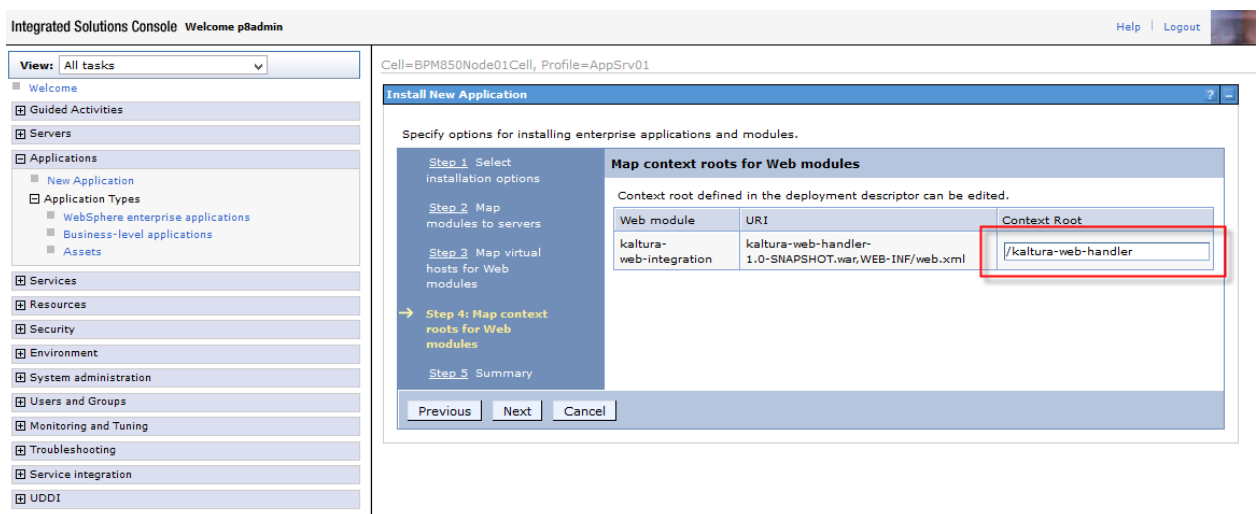


The screenshot shows the 'Integrated Solutions Console' with the 'Welcome pAdmin' header. On the left is a navigation tree with categories like 'Guided Activities', 'Servers', 'Applications', 'Services', 'Resources', 'Security', 'Environment', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The 'Applications' category is expanded, showing 'New Application', 'Application Types', 'WebSphere enterprise applications', 'Business-level applications', and 'Assets'. The main panel displays the 'Install New Application' wizard. The 'Step 1: Select installation options' is active. The 'Select installation options' section includes checkboxes for 'Precompile JavaServer Pages files', 'Distribute application' (checked), 'Use Binary Configuration', 'Deploy enterprise beans', and 'Create MBeans for resources' (checked). The 'Application name' field is highlighted with a red box and contains the text 'kaltura-web-handler'. Other fields include 'Directory to install application', 'Reload interval in seconds', 'Validate input off/warn/fail' (set to 'warn'), and 'File Permission' (set to 'Allow all files to be read but not written to').

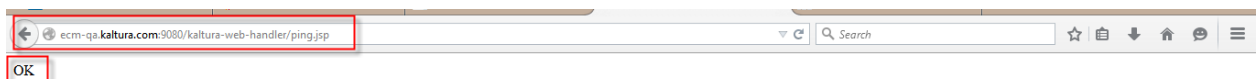
3. Select the servers/clusters/web servers to deploy the application to.



- Set context root as `/kaltura-web-handler` and Finish the deployment.



- Validate application by accessing `http://server:port/kaltura-web-handler/ping.jsp`



## FileNet Connection and Access Configuration

The custom REST service requires additional configuration to connect to a FileNet domain. The settings are specific for each environment where integration solution is deployed.

All settings are saved in `KALTURA_CONF_DIR\web-handler.properties` file.

### To configure connection to FileNet

- Update the following parameters in `web-handler.properties` configuration file:

`fnt.url = http://<HOST>:<PORT>/wsi/FNCEWS40MTOM/` - update `<HOST>` and `<PORT>` with values of the server hosting the FileNet application

`fnt.jaas = FileNetP8WSI` - update JAAS stanza value (will not be required in most cases)

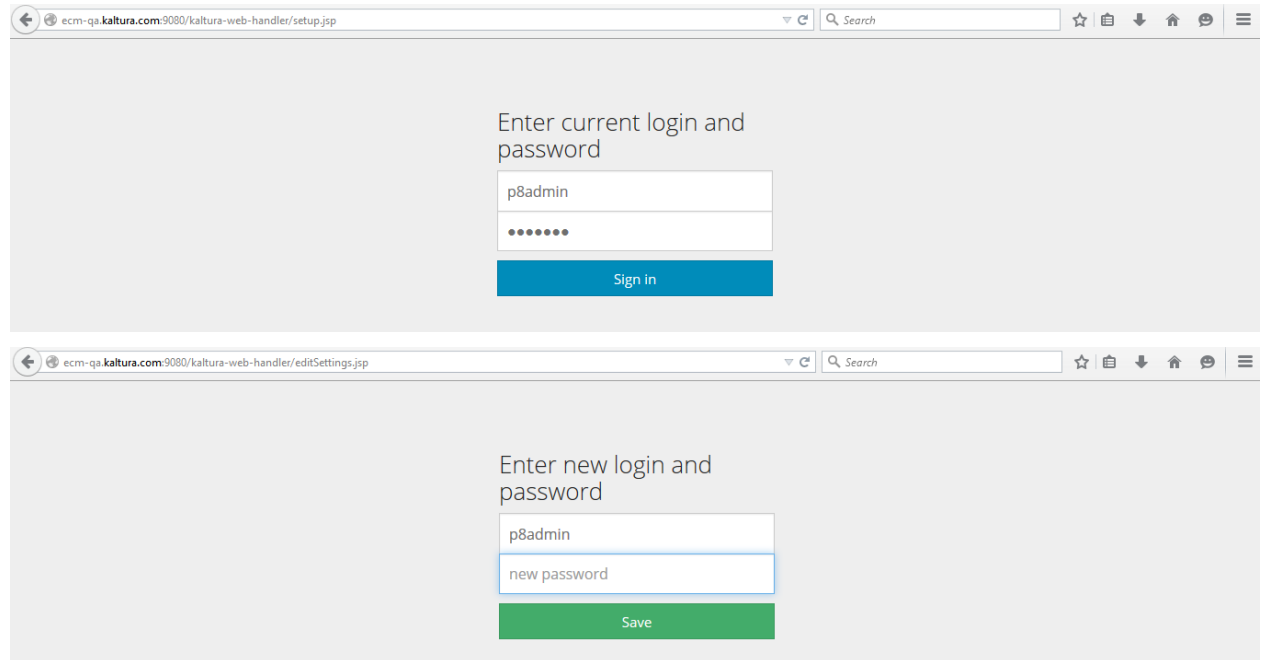
`fnt.domain = <DOMAIN>` - update with the FileNet domain name

- Save the configuration file.

### To configure access to FileNet

1. Login as p8admin\test123 as initial credentials.
2. Set the credentials for accessing FileNet from the custom REST service in `http://server:port/kaltura-web-handler/editSettings.jsp`.

The credentials will be encrypted and stored in `KALTURA_CONF_DIR`. They must be used if any further changes to FileNet connection security are required.



The first screenshot shows the login page at `ecm-qa.kaltura.com:9080/kaltura-web-handler/setup.jsp`. It prompts the user to "Enter current login and password". The login field contains "p8admin" and the password field is masked with dots. A blue "Sign in" button is at the bottom.

The second screenshot shows the settings page at `ecm-qa.kaltura.com:9080/kaltura-web-handler/editSettings.jsp`. It prompts the user to "Enter new login and password". The login field contains "p8admin" and the password field contains "new password". A green "Save" button is at the bottom.

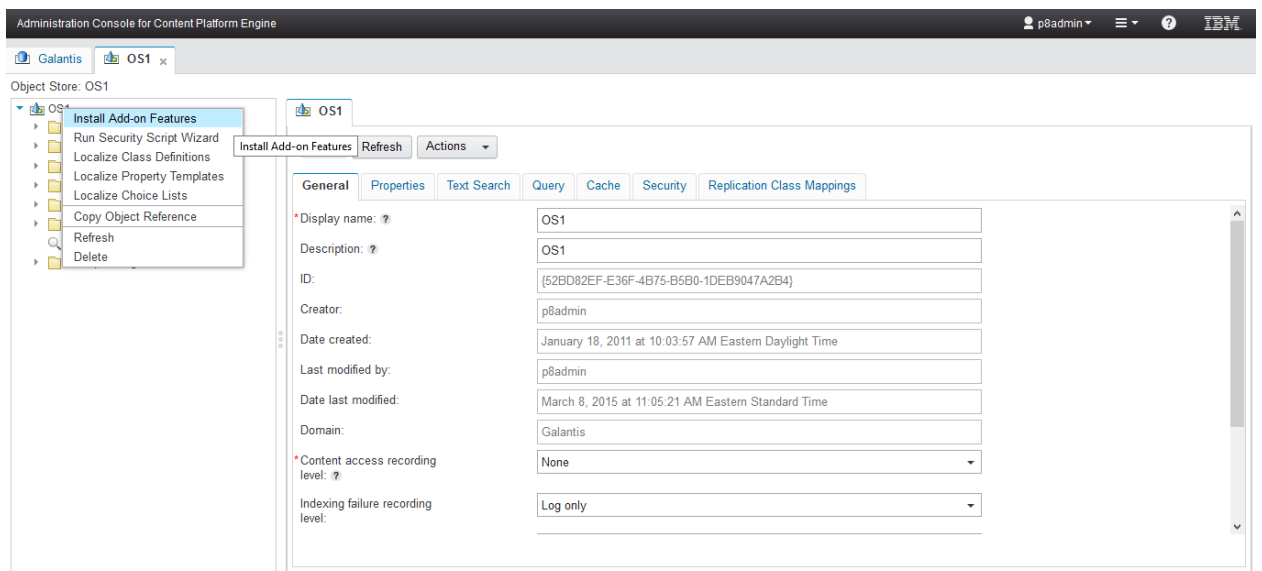
# Transcription Indexing Configuration

FileNet v5.2.1 contains a technology preview feature for managing the transcription of video documents. This feature, in combination with Kaltura video captions capabilities, allows transcribing of rich media and indexing it for full-text search in ECM.

## FileNet Add-On Installation

### To install the FileNet add-on

1. Login to Administrative Console for CPE (<http://server:port/acce>) and select *Install Add-on Features* action for the object store with Kaltura integration.



2. Install the 5.2.1 Rich Media Transcription Extensions.

## Install Add-on Features

Add-on features are modules that contain custom metadata and data that support extensions to core Content Platform Engine features and support applications that integrate with Content Platform Engine. [Learn more...](#)

The add-on features are listed in the order of dependency.

Select the add-on features to install

| <input type="checkbox"/> | Display Name                      | Type     | Prerequisites               |
|--------------------------|-----------------------------------|----------|-----------------------------|
| <input type="checkbox"/> | 5.2.1 CFS-IS Extensions           | Optional |                             |
| <input type="checkbox"/> | 5.2.1 DITA Publishing Extensions  | Optional | 5.2.1 Publishing Extensions |
| <input type="checkbox"/> | 5.2.1 CFS ICI Lockdown Extensions | Optional |                             |

### Installed add-on features

| Display Name   | Type     | Prerequisites   |
|--|----------|---|
| 5.2.1 FP1 Social Collaboration User Identity Mapping Extensions          | Optional |   |
| 5.2.1 Social Collaboration Notification Extensions For Content Navigator | Optional | 5.2.1 Social Collaboration Base Extensions<br>5.2.1 Email Services Extensions |
| 5.2.1 Reporting Enablement Extensions                                    | Optional |   |
| 5.2.1 Email Services Extensions  | Optional |   |
| 5.2.1 Rich Media Transcription Extensions                                | Optional |   |

OK

Cancel

## FileNet Configuration

The steps below described the required configuration in FileNet to enable indexing of captions in FileNet Content Search Services application and make video searchable by the text of the transcription of the video.

### Text Indexing Preprocessor

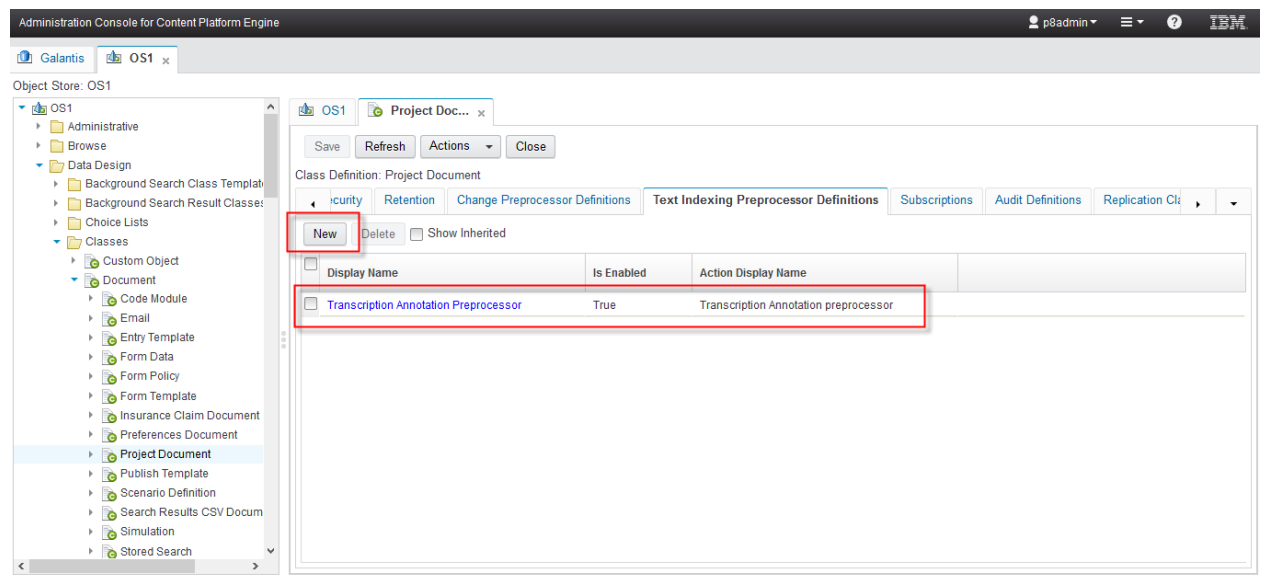
FileNet includes the transcription annotation preprocessor that parses transcription TTML/DFXP files for their further indexing by FileNet Content Search Services application.

#### To setup the text indexing pre-processor



**NOTE:** Perform for each ECM document class that should be synced with Kaltura:

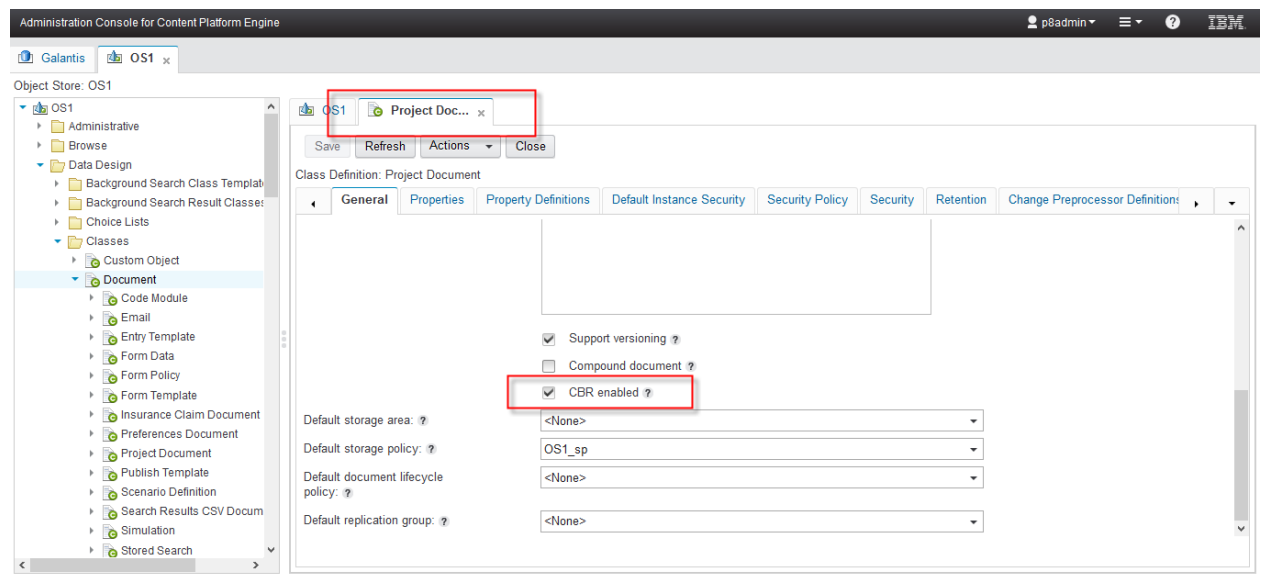
1. In the Administrative Console for CPE, open the object store, and select *Data Design >> Classes >> Document*.
2. Select the class that stores videos integrated for captions syncing and then *Text Indexing Preprocessor Definitions* tab.
3. Create a new *Transcription Annotation Preprocessor* pointing to the corresponding action.



## Enabling Content-Based Retrieval (Captions Search)

### To enable content-based retrieval

1. For each ECM document class that should be synced with Kaltura, select *CBR enabled* flag in General tab of the class configuration.



2. When all previous changes are completed, restart the Application server hosting FileNet, Content Navigator, and the custom integration components.

# Kaltura Notifications' Configuration

## Notifications

When ECM configuration is complete and custom metadata profiles are created in Kaltura, enable notifications to *<http://server:port/kaltura-web-handler/HttpNotificationHandler.jsp>* for the following:

- Base entry update/delete
- Metadata update (for all custom profiles)
- Captions asset add/update/delete
- Thumbnail add/update/delete

# Manual FileNet Configuration

FileNet configuration and code modules are deployed automatically when the initial Kaltura integration configuration is saved in the Content Navigator. Use the following instructions if manual (re-)configuration is required, and for validations.

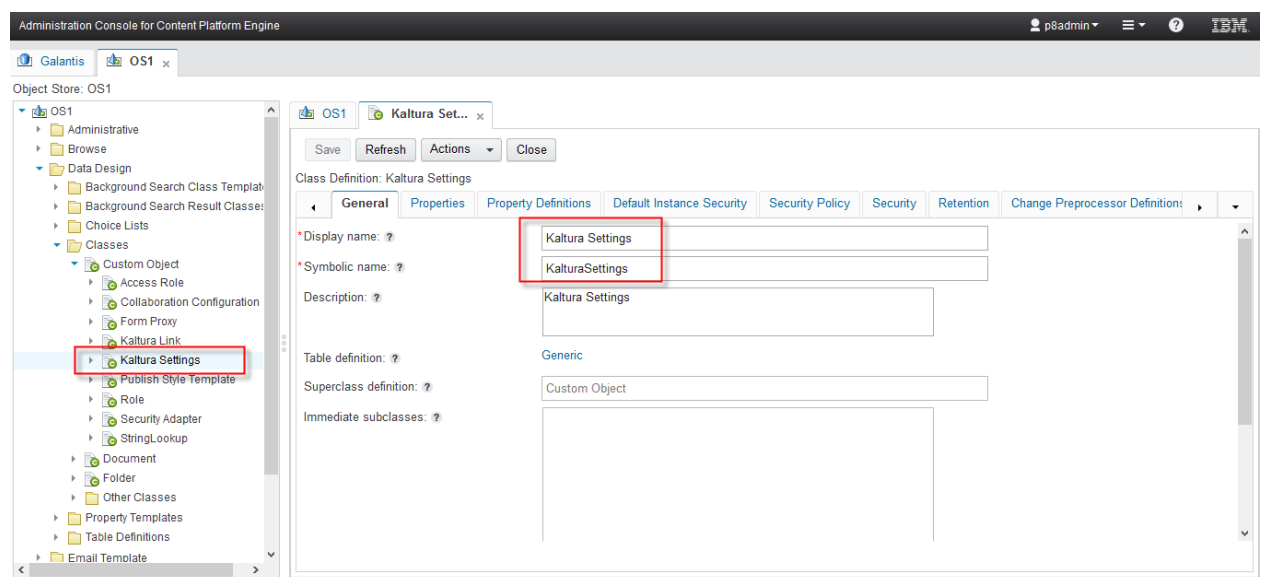
## Data Model

This section provides information about the data model used for configuring FileNet manually.

### Kaltura Settings Class

#### To configure the Kaltura Settings class

1. Create Kaltura Settings class as subclass of Custom Object in the configuration for the FileNet object store.

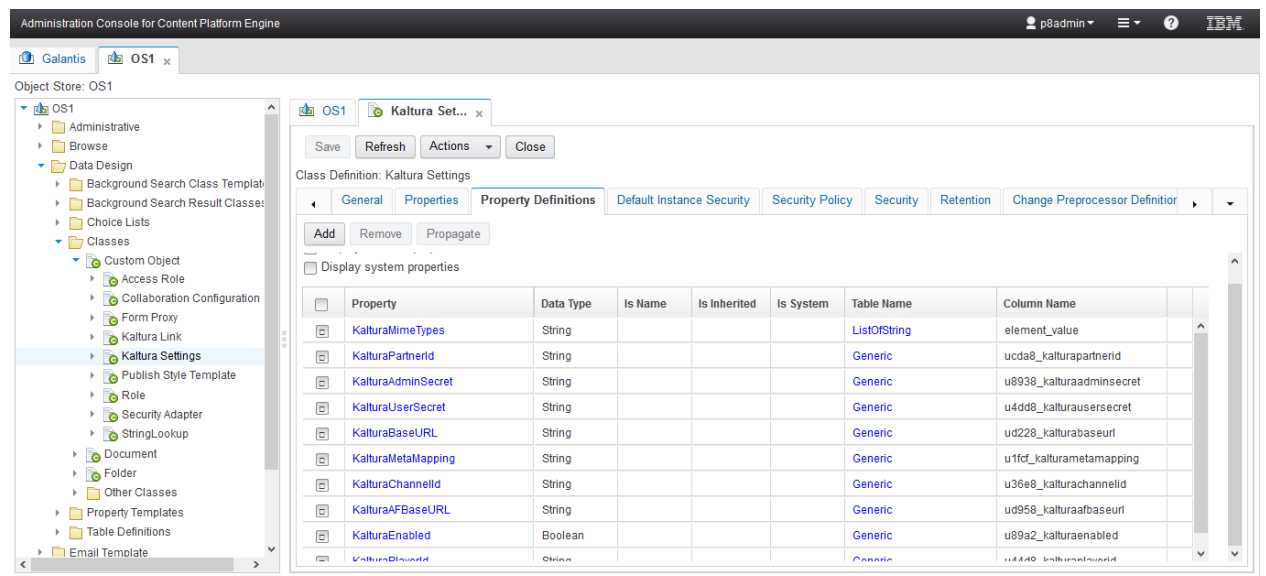


2. Create and add the following properties to Kaltura Settings class.

| Name               | Symbolic Name      | Type     | Length | Description/Comments                                    |
|--------------------|--------------------|----------|--------|---|
| KalturaMimeTypes   | KalturaMimeTypes   | String[] | 64     | Array will contain all video MIME types to be supported |
| KalturaPartnerId   | Kaltura Partner Id | String   | 64     | Partner ID of Kaltura repository                        |
| KalturaAdminSecret | KalturaAdminSecret | String   | 64     | Admin secret of configured Kaltura media repository     |
| KalturaUserSecret  | KalturaUserSecret  | String   | 64     | User secret of configured Kaltura media repository      |
| KalturaBaseURL     | KalturaBaseURL     | String   | 64     | Base URL to the configured                              |



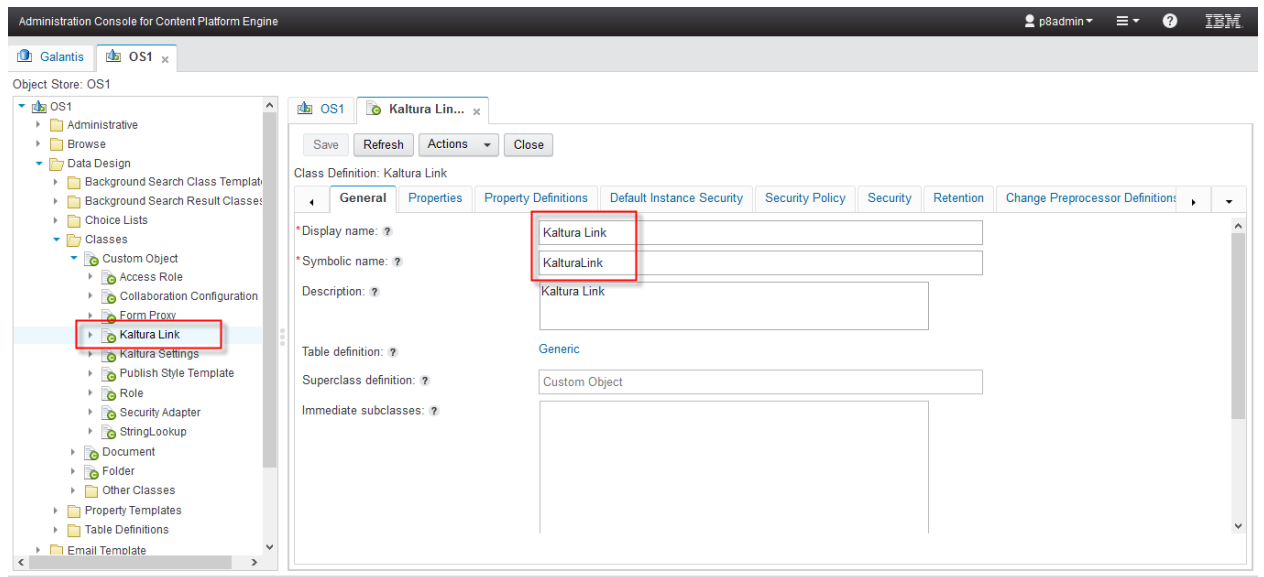
| Name                  | Symbolic Name         | Type        | Length | Description/Comments   |
|-----------------------|-----------------------|-------------|--------|--|
|                       |                       |             |        | Kaltura instance   |
| KalturaMetaMapping    | KalturaMetaMapping    | Long String | 6000   | Metadata mapping schema between FileNet and Kaltura                        |
| KalturaChannelId      | KalturaChannelId      | String      | 64     | Stub channel ID for publishing to Kaltura repository                       |
| KalturaAFBaseURL      | KalturaAFBaseURL      | String      | 64     | Base URL of the KAF instance   |
| KalturaEnabled        | KalturaEnabled        | Boolean     |        | Indicates whether integration with Kaltura is enabled for the object store |
| KalturaPlayerId       | KalturaPlayerId       | String      | 64     | ID of a Kaltura player to be used in integration for videos                |
| KalturaAllMediaAdmins | KalturaAllMediaAdmins | String      | 64     | Comma separated list of All Media frame administrators                     |
| KalturaAudioPlayerId  | KalturaAudioPlayerId  | String      | 64     | ID of a Kaltura player to be used in integration for audios                |
| KalturaImagePlayerId  | KalturaImagePlayerId  | String      | 64     | ID of a Kaltura player to be used in integration for images                |



## Kaltura Link Class

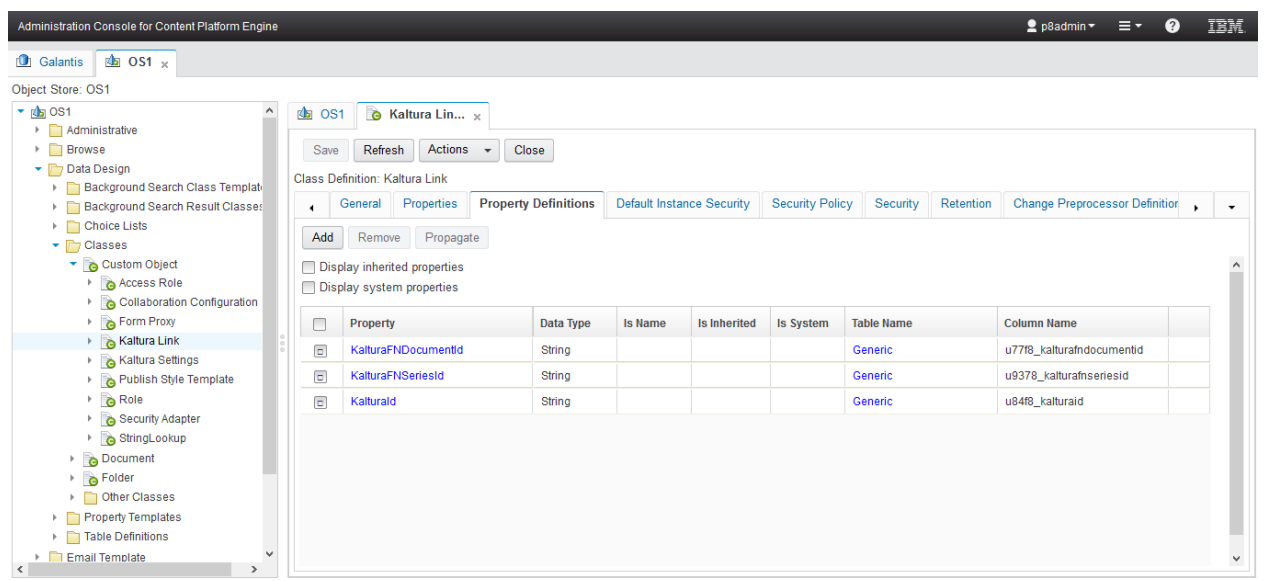
### To create the Kaltura Link Class as a subclass

1. Create Kaltura Link class as subclass of Custom Object in the configuration for the FileNet object store.



2. Create and add the following properties to Kaltura Link class.

| Name                | Symbolic Name       | Type   | Length | Description/Comments  |
|---------------------|---------------------|--------|--------|---|
| KalturaFNDocumentId | KalturaFNDocumentId | String | 64     | The unique ID of a document (released version) in FileNet.  |
| KalturaFNSeriesId   | KalturaFNSeriesId   | String | 64     | The unique ID of FileNet document version series corresponding to the integrated and synced object. |
| KalturaId           | KalturaId           | String | 10     | Unique ID of a video object in  |

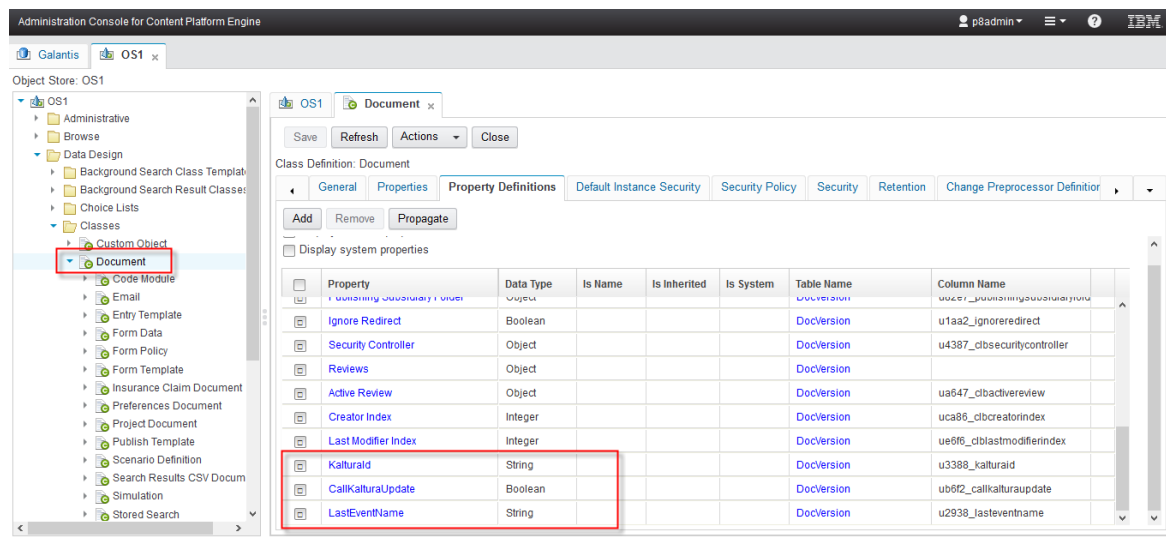


## Document Class Updates

### To update the base document class with new properties

- Create the properties based on the following table. Make sure to configure the new properties as Hidden.

| Name              | Symbolic Name     | Type    | Length | Description/Comments  |
|-------------------|-------------------|---------|--------|---|
| Kalturald         | Kalturald         | String  | 10     | Unique ID of a video object in Kaltura. Hidden.                                       |
| CallKalturaUpdate | CallKalturaUpdate | Boolean |        | Flag indicating whether object update in FileNet should be synced to Kaltura. Hidden. |
| LastEventName     | LastEventName     | String  | 64     | Name of last event raised for the object. Hidden.                                     |



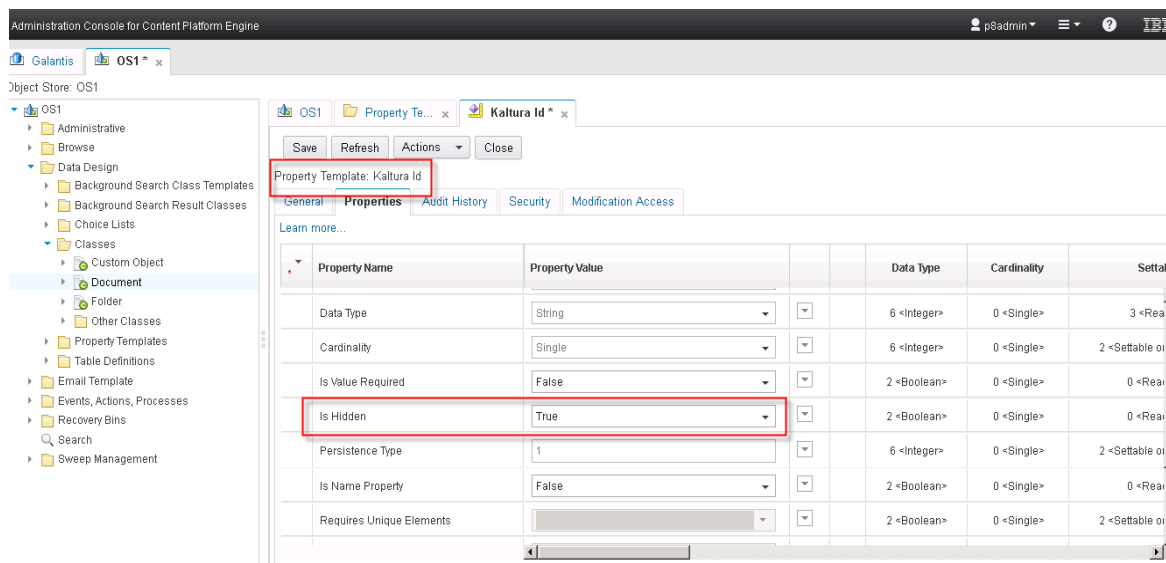
Administration Console for Content Platform Engine

Object Store: OS1

Class Definition: Document

Property Definitions

| Property               | Data Type | Is Name | Is Inherited | Is System | Table Name | Column Name                |
|------------------------|-----------|---------|--------------|-----------|------------|----------------------------|
| Working Object's Index | Object    |         |              |           | DocVersion | u027_workingobjectindex    |
| Ignore Redirect        | Boolean   |         |              |           | DocVersion | u1aa2_ignoreredirect       |
| Security Controller    | Object    |         |              |           | DocVersion | u4387_dbsecuritycontroller |
| Reviews                | Object    |         |              |           | DocVersion |                            |
| Active Review          | Object    |         |              |           | DocVersion | ua647_dbactivereview       |
| Creator Index          | Integer   |         |              |           | DocVersion | uca86_dbcreatorindex       |
| Last Modifier Index    | Integer   |         |              |           | DocVersion | ue0f6_dbblastmodifierindex |
| Kalturald              | String    |         |              |           | DocVersion | u3388_kalturald            |
| CallKalturaUpdate      | Boolean   |         |              |           | DocVersion | ub6f2_callkalturaupdate    |
| LastEventName          | String    |         |              |           | DocVersion | u2938_lasteventname        |



Administration Console for Content Platform Engine

Object Store: OS1

Property Template: Kaltura Id

Properties

| Property Name            | Property Value | Data Type   | Cardinality | Settable          |
|--------------------------|----------------|-------------|-------------|-------------------|
| Data Type                | String         | 6 <Integer> | 0 <Single>  | 3 <Read Only>     |
| Cardinality              | Single         | 6 <Integer> | 0 <Single>  | 2 <Settable Only> |
| Is Value Required        | False          | 2 <Boolean> | 0 <Single>  | 0 <Read Only>     |
| Is Hidden                | True           | 2 <Boolean> | 0 <Single>  | 0 <Read Only>     |
| Persistence Type         | 1              | 6 <Integer> | 0 <Single>  | 2 <Settable Only> |
| Is Name Property         | False          | 2 <Boolean> | 0 <Single>  | 0 <Read Only>     |
| Requires Unique Elements |                | 2 <Boolean> | 0 <Single>  | 2 <Settable Only> |

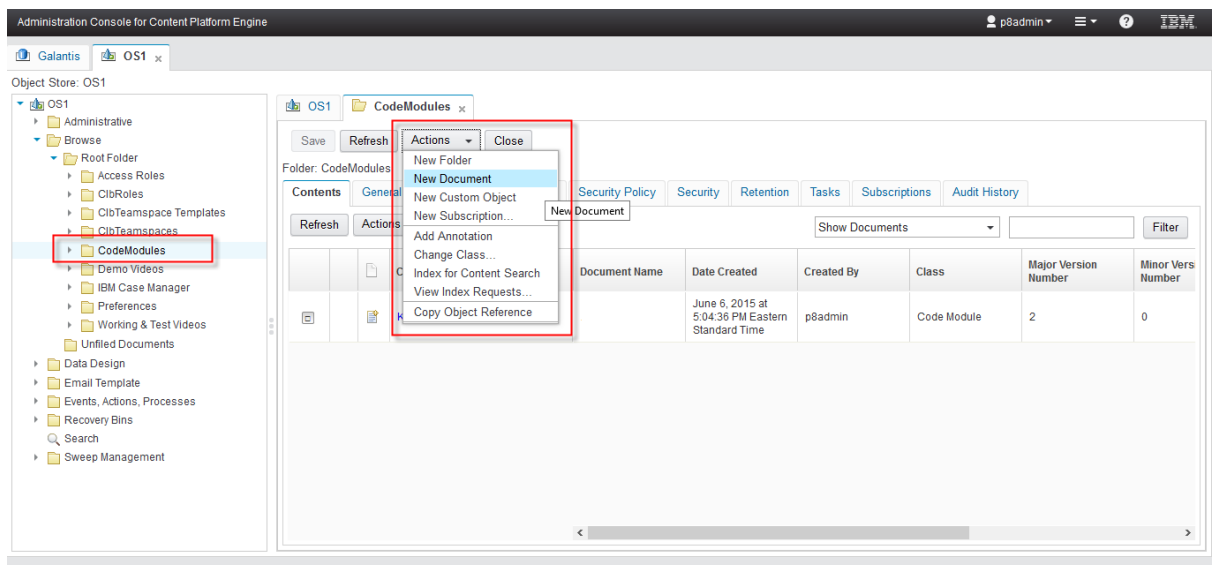
## Code Module

A code module is a special Document subclass in FileNet that contains Java components. The code module contains action handlers and required Java libraries for the following actions:

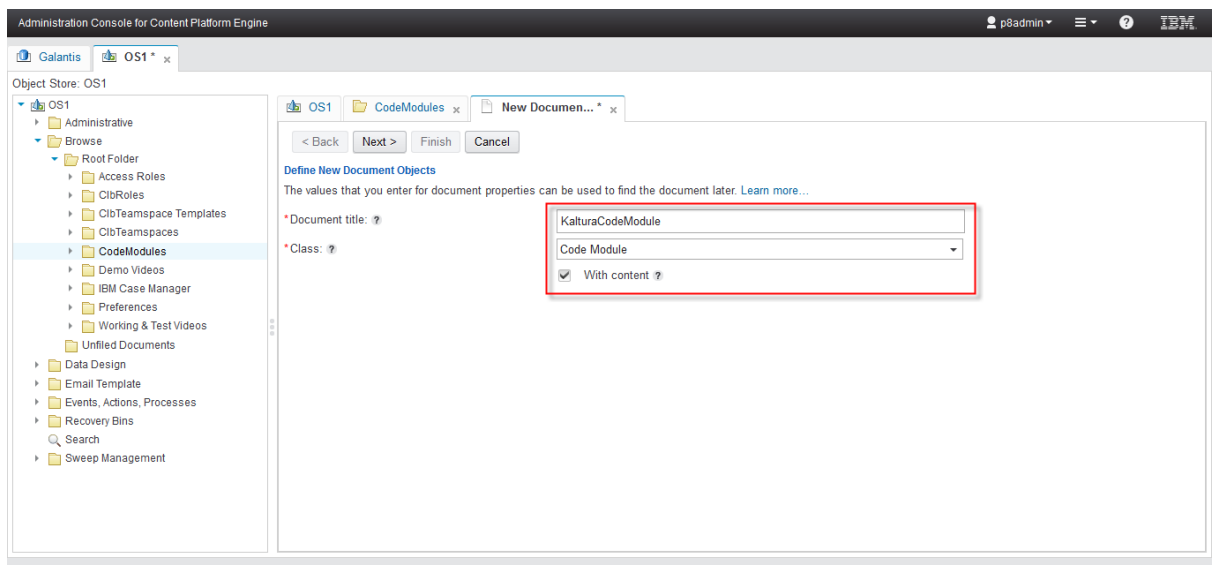
- Kaltura Event Action
- Kaltura Change Preprocessor Action
- Kaltura Sweep Action

### To create the Kaltura Code Module

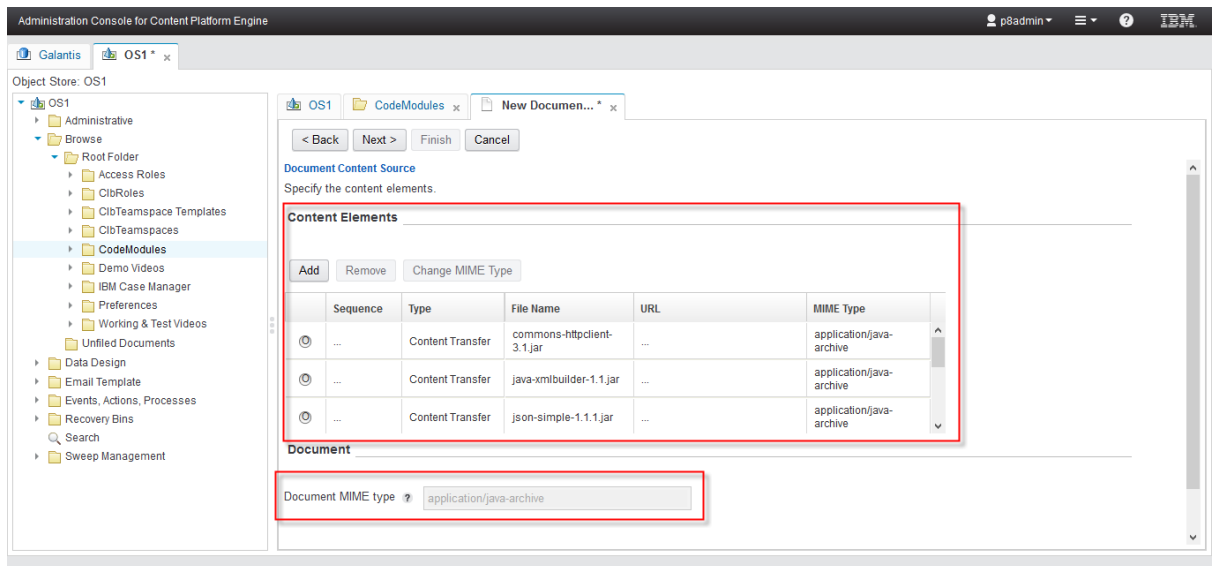
1. In ACCE, select *Object Store* >> *Browse* >> *Root Folder* >> *CodeModules* >> *Actions* (in the folder menu) >> *New Document*.



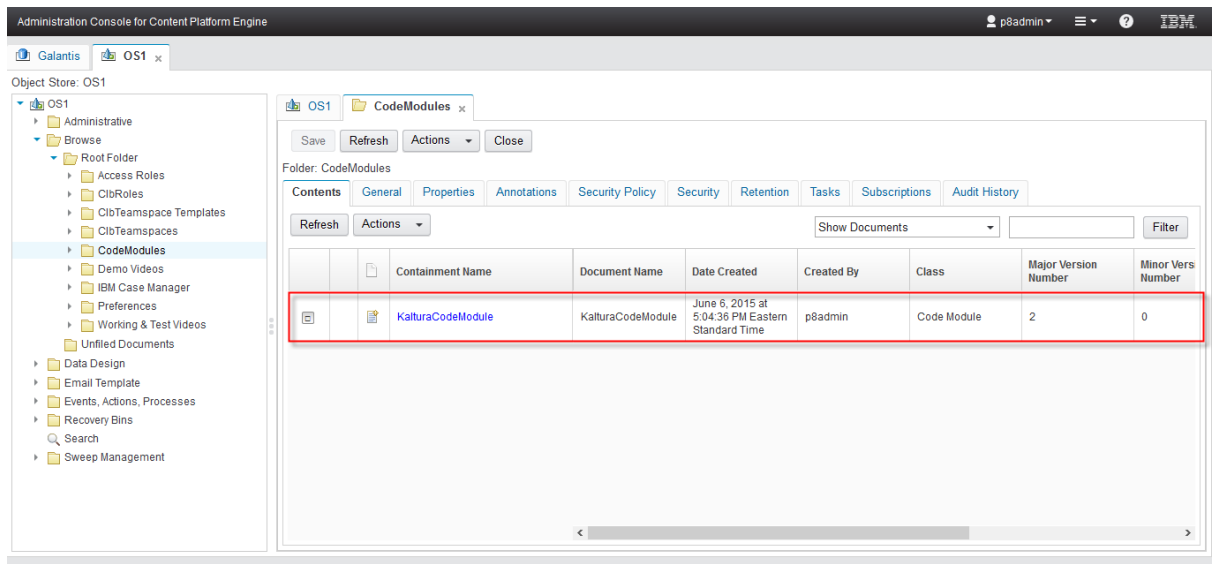
2. Set name to *KalturaCodeModule* and class=*Code Module*. Make sure that *With content* checkbox is selected.



3. Add the following libraries from *KALTURA\_CONF\_DIR* as Content Elements in the next step:



4. Leave default values for all next steps in the wizard and click Finish to create the code module.

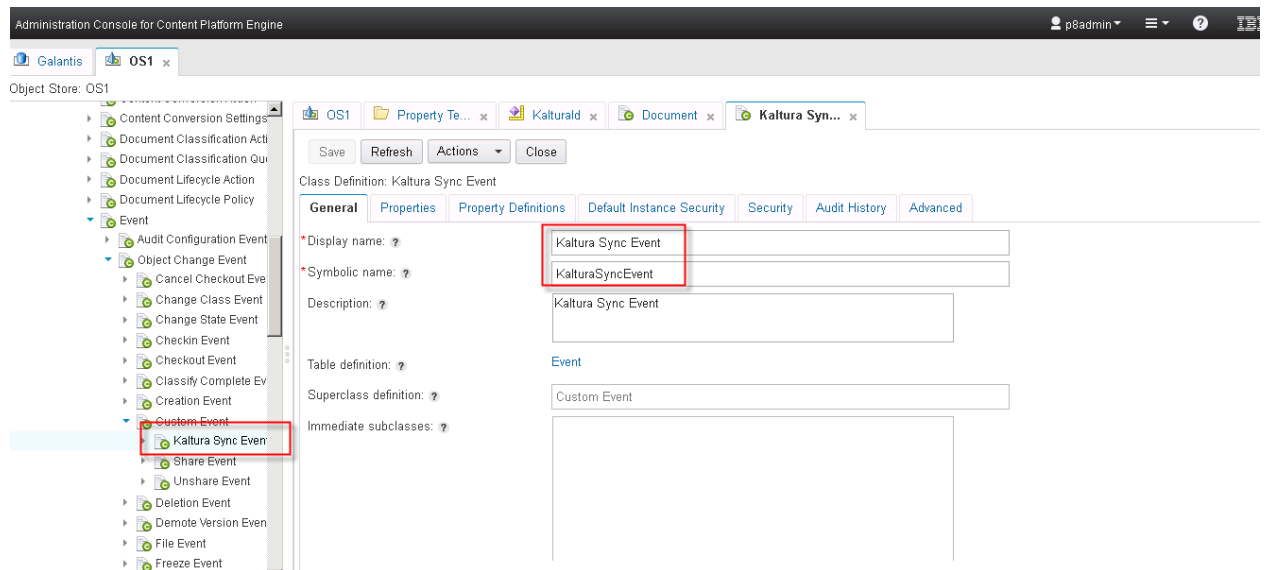


## Events and Subscriptions

### Kaltura Sync Event

#### To create the Kaltura Sync Event

- Create Kaltura Sync Event as a subclass of *Classes >> Other Classes >> Event >> Object Change Event >> Custom Event* in Administrative Console for CPE.

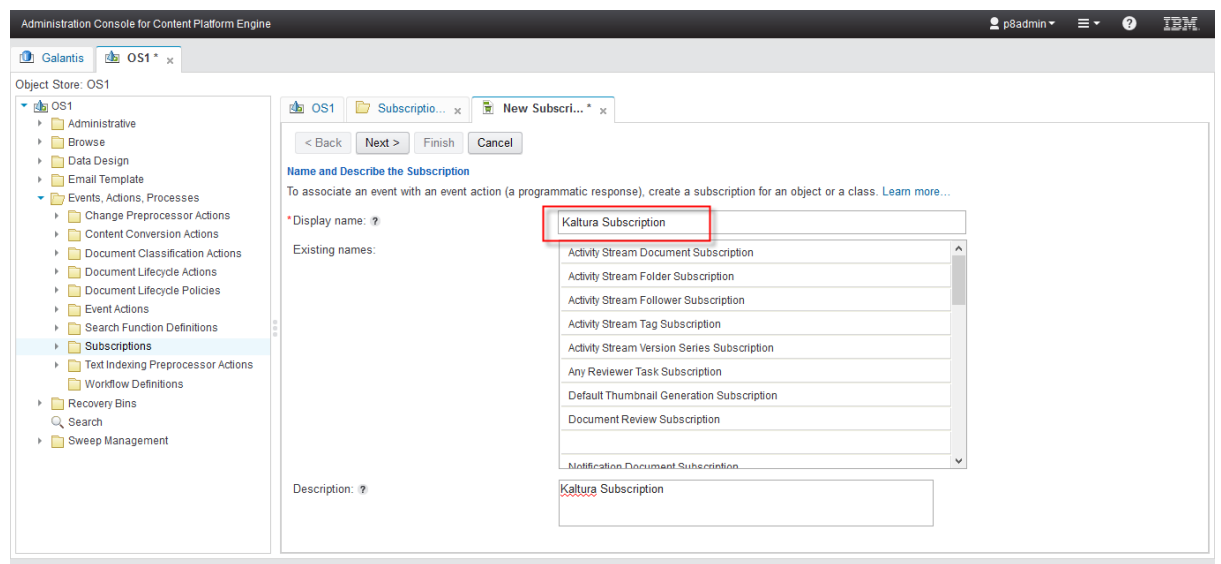


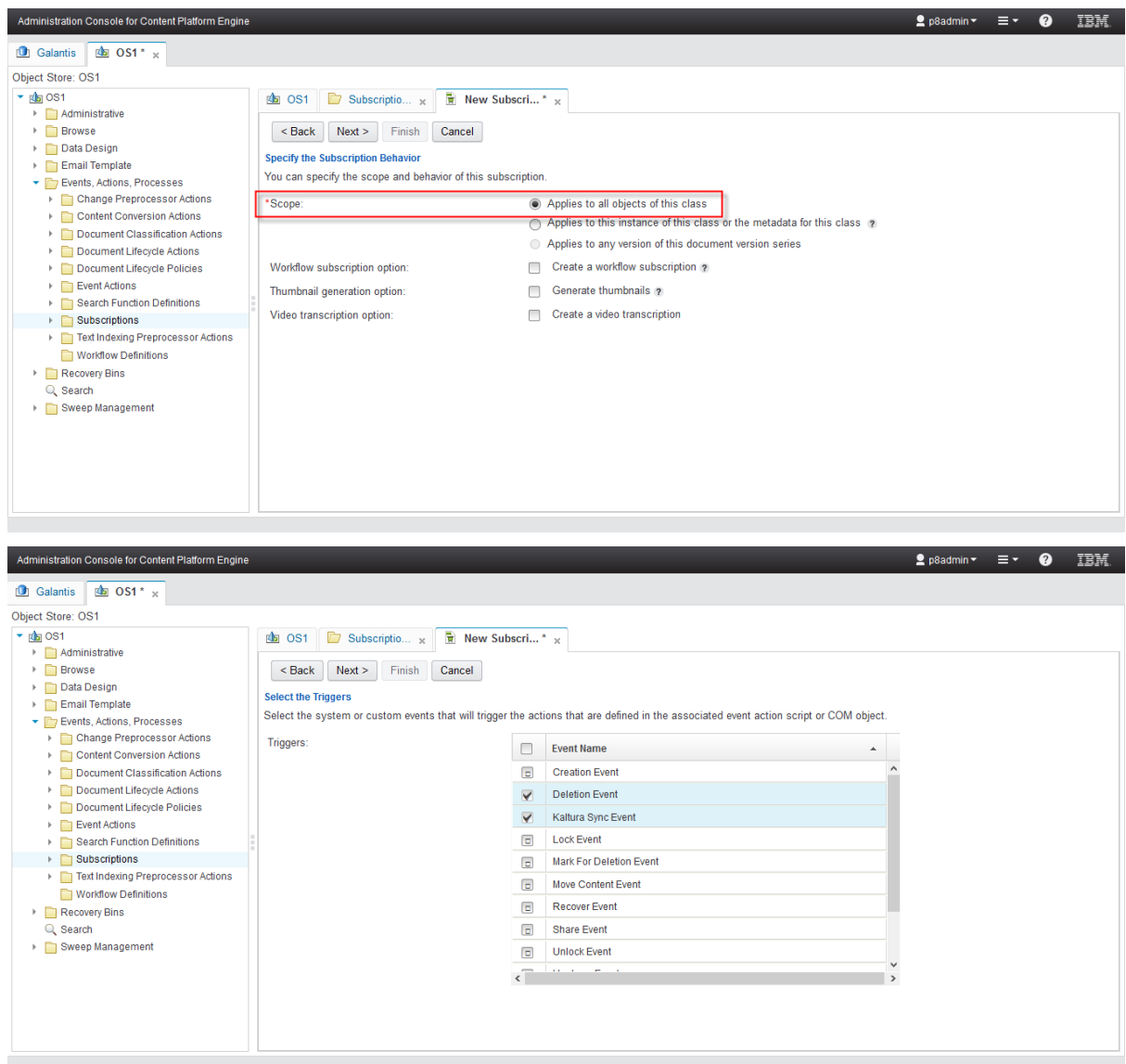
## Kaltura Subscription and Event Action

Perform the following configuration on the base *Document* class. The settings will propagate to all subclasses. If required, perform on each child *Document* class separately.

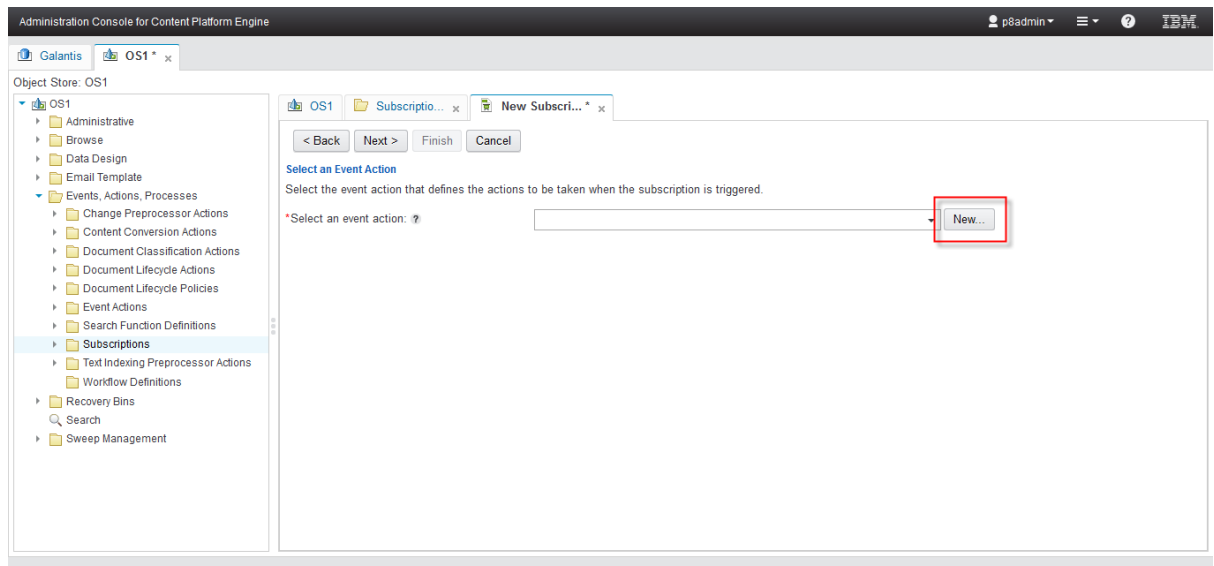
### To configure the base document class for Kaltura Subscription and event action

1. Create Kaltura Subscription on the base *Document* class using the following settings:
  - Name = Kaltura Subscription
  - Scope = Applies to all objects of this class
  - Triggers: Checkin Event, Delete Event, Kaltura Sync Event, Update Event
  - Event Action = Kaltura Event Action

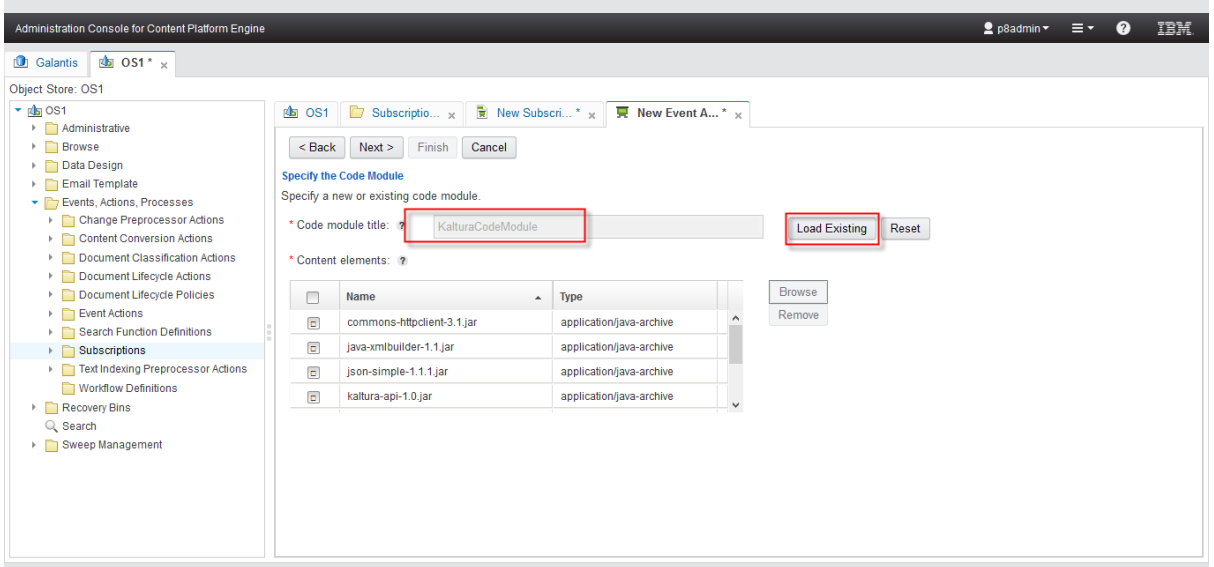
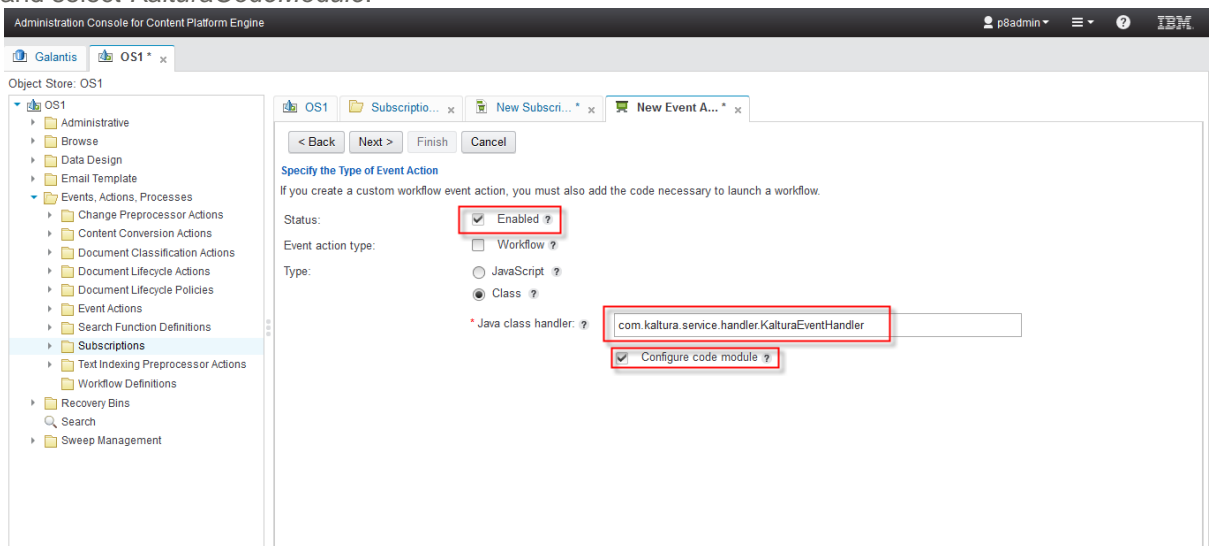




2. When prompted, create the new custom event action for the subscription. Use the following values:
  - Name = Kaltura Event Action
  - Enabled = true
  - Type = Class
  - Java Class Handler = com.kaltura.service.handler.KalturaEventHandler



- Make sure that *Configure code module* checkbox is selected. Click on *Load Existing* button and select *KalturaCodeModule*.




- Click *Finish* to create the new event action and then *Finish* again to create the subscription.



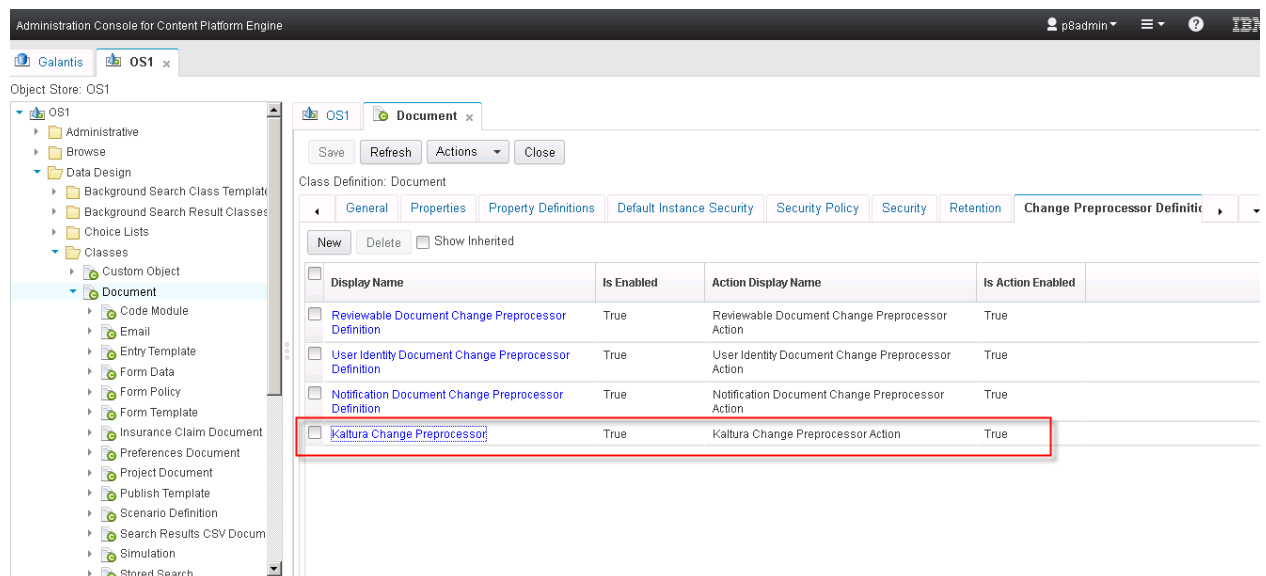
# Change Pre-processor

## Kaltura Change Pre-processor and Action

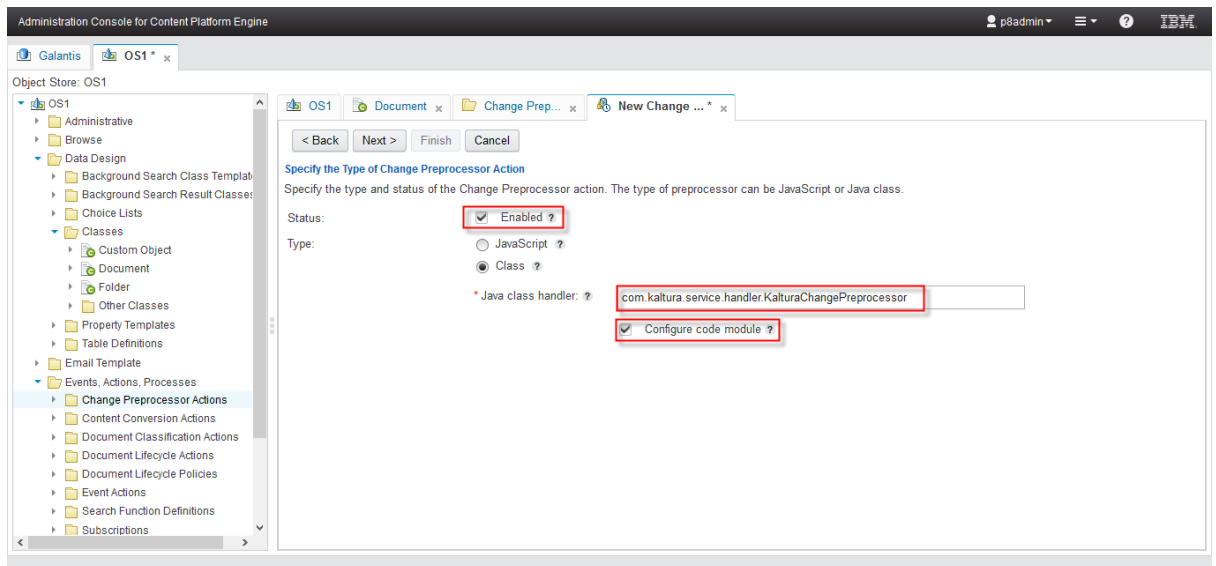
-  **To configure the base document class for the Change Pre-processor and action**

Perform the following configuration on the base Document class. The settings propagate to all subclasses. If required, perform the configuration on each child Document class separately.

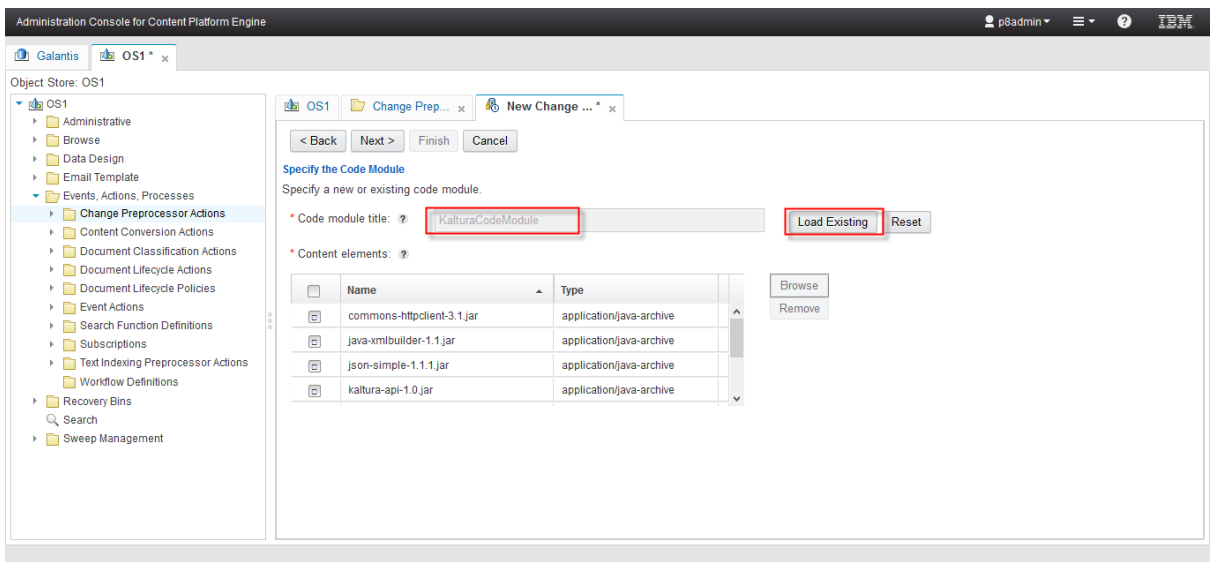
- Under Change Pre-processor Definitions tab of a document class, create a new change pre-processor using the following settings:
  - Name = Kaltura Change Pre-processor
  - Status = Enabled
  - Change Pre-processor Action = Kaltura Change Pre-processor Action



- When prompted, create the new change pre-processor action using the following values:
  - Name = Kaltura Change Preprocessor Action
  - Type = Class
  - Java class handler = com.kaltura.service.handler.KalturaChangePreprocessor



3. Make sure that *Configure code module* checkbox is selected. Click on *Load Existing* button and select *KalturaCodeModule*.



4. Click *Finish* to create the new change preprocessor action and then *Finish* again to create the change preprocessor definition.

## Custom Kaltura Sweep

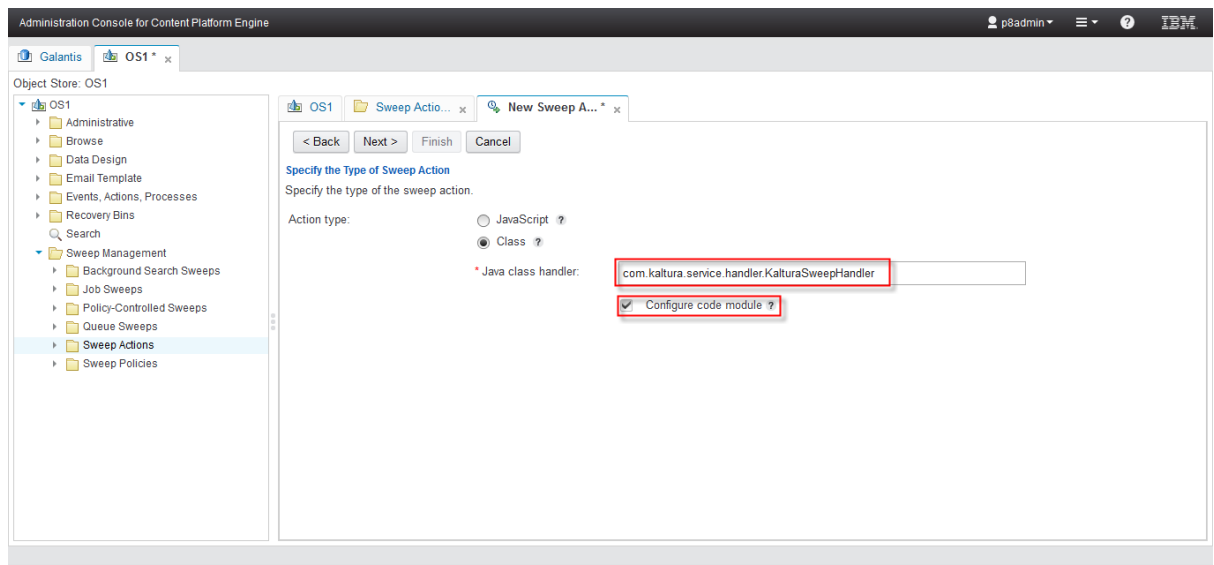
You can configure performance tuning parameters and the repository-wide common behaviour configuration parameters for a basic sweep by using IBM® Enterprise Records Task Manager.

## Kaltura Sweep Action

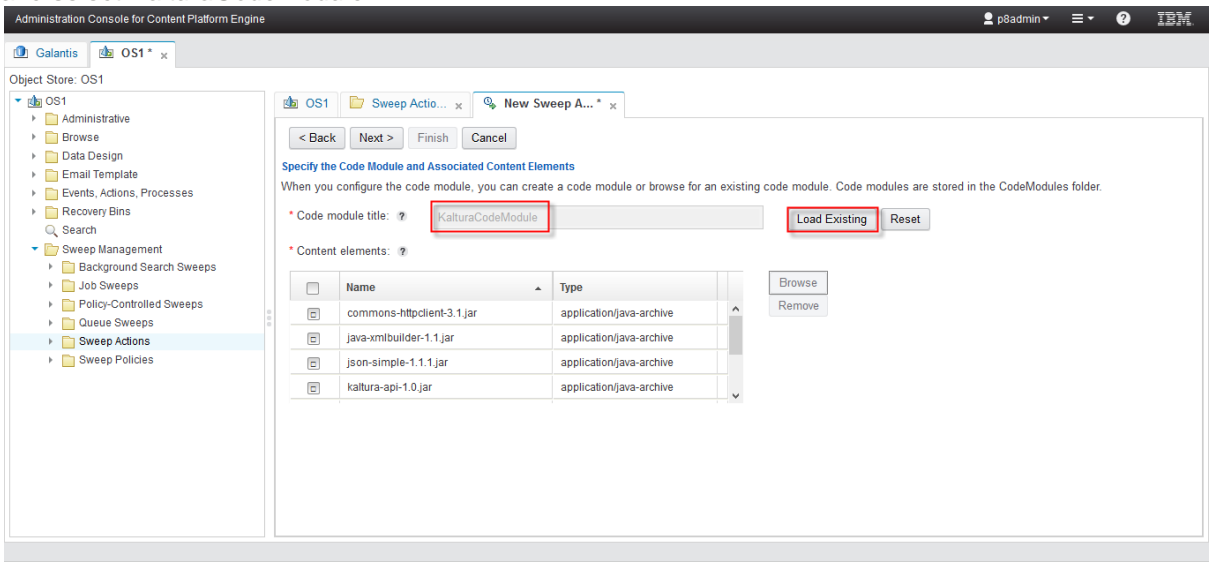
### To configure the Kaltura Sweep action

1. In Administrative Console for CPE, navigate to Object Store >> Sweep Management >> Sweep Actions.
2. Create a new Sweep Action using the following values:
  - Name = Kaltura Sweep Action

- Java class handler = `com.kaltura.service.handler.KalturaSweepHandler`



3. Make sure that *Configure code module* checkbox is selected. Click on *Load Existing* button and select *KalturaCodeModule*.



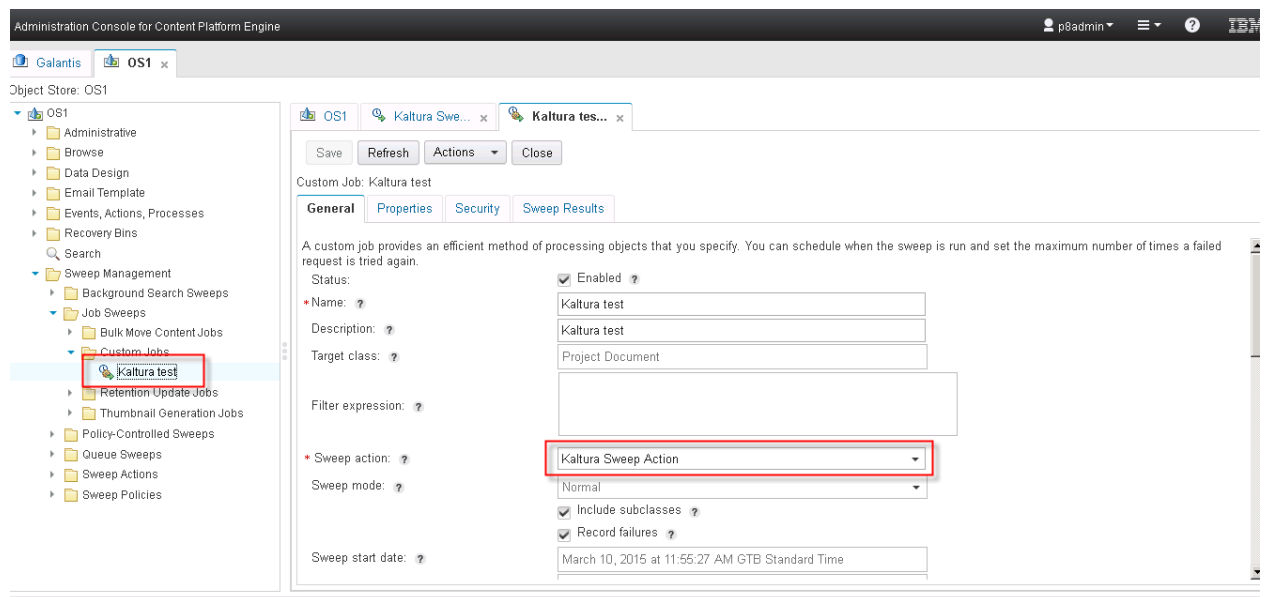
4. Click *Finish* to create the new custom sweep action.

## Running a Sweep

Sweep processes can be triggered from the ECM Task Manager in the IBM® Enterprise Records task pane to allow for remote execution and scheduling.

### To run a sweep

1. In the Administrative Console for CPE, navigate to Object Store >> Sweep Management >> Job Sweeps >> Custom Jobs.
2. Create a custom sweep job using Kaltura Sweep Action to initiate syncing of existing videos to Kaltura.



A custom schedule can be defined for the sweep job in the same configuration frame if required.

