Sitecore Media Framework 2.1 Brightcove Edition

Administrators Guide

Installation & Configuration Guide

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Chapter 1 Installation

This chapter covers the installation of the module.

1.1 Prerequisites

Before installing the module, be sure the following have been completed:

- The appropriate version of Sitecore Experience Platform is installed.
- Brightcove Video Cloud account is available.

1.2 Installation Steps

This section covers the installation process for the module.

1.2.1 Install Sitecore Media Framework 2.1

Sitecore Media Framework is installed using the Sitecore Installation Wizard. Follow the instructions displayed by the installation wizard.
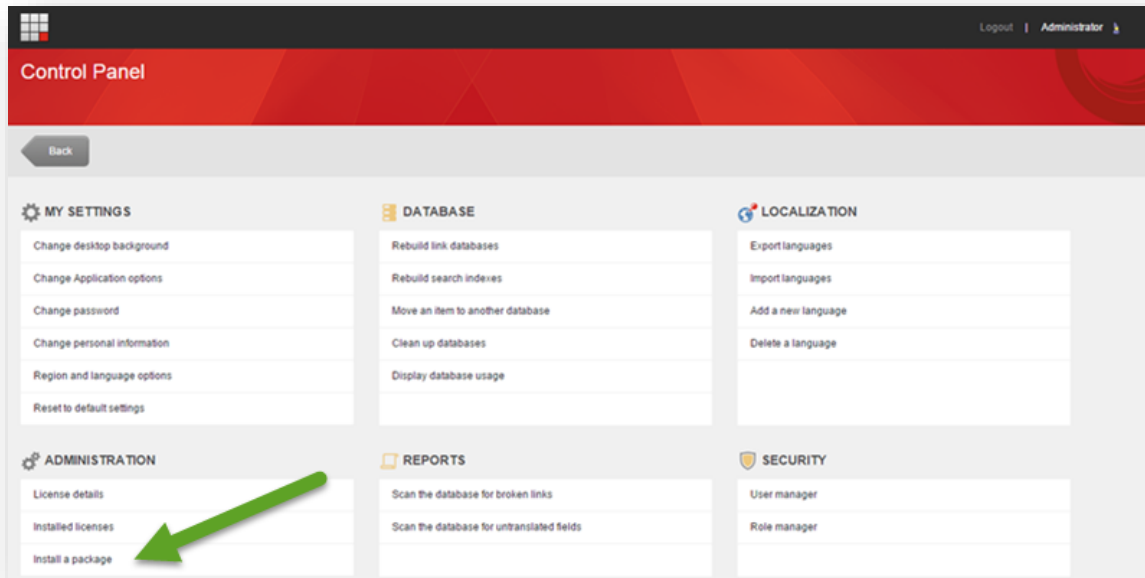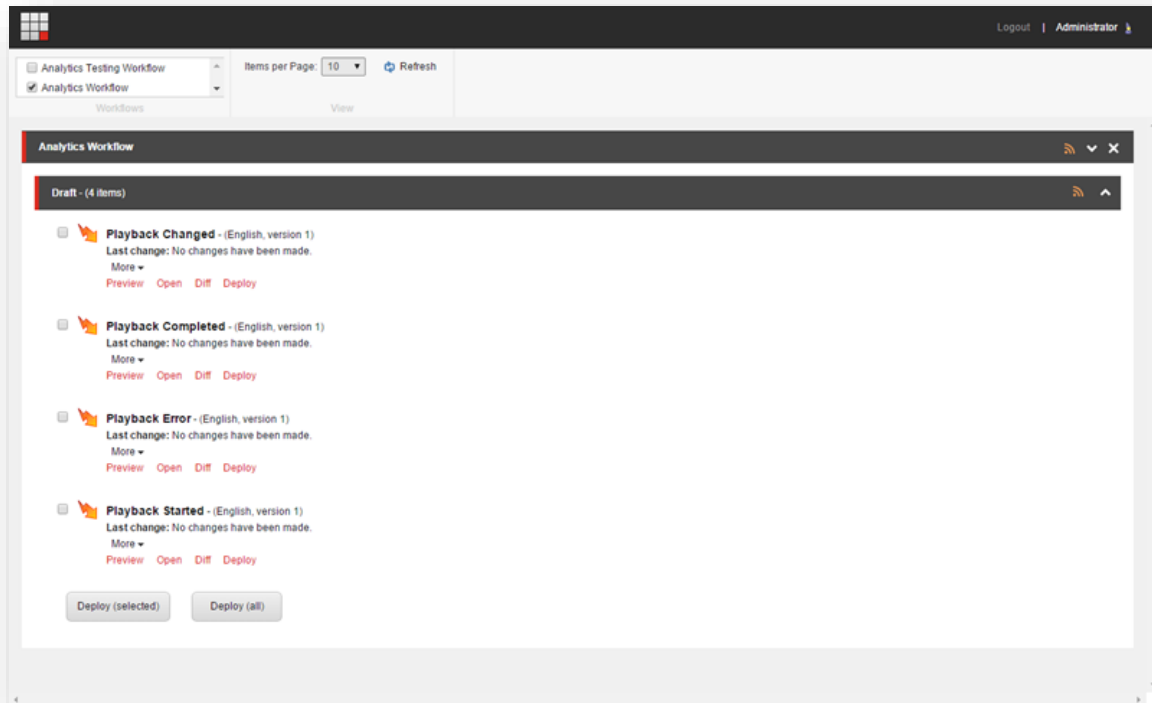

1.2.2 Release Page Events from Workflow

Sitecore Media Framework includes a number of page events that must be released from workflow and published before they can be used.

1. Open the Sitecore Workbox
2. Select the Analytics Workflow

3. Deploy the following page events:
   a. Playback Changed
   b. Playback Completed
   c. Playback Error
   d. Playback Started

4. Publish the page events

1.2.3 Install Sitecore Media Framework Brightcove Edition 2.1

Sitecore Media Framework Brightcove Edition is installed using the Sitecore Installation Wizard. Follow the instructions displayed by the installation wizard.

1.2.4 Reporting Database Configuration

In order for the Sitecore Media Framework reports to work, a new fact table must be added to the Experience Database (xDB) reporting database.

A script that will create this new table is available on SDN. You must run this script on your xDB reporting database. This step should be completed by your database administrator.

Note
It is possible to install multiple Sitecore Media Framework connectors. This script only needs to be run one time per reporting database, regardless of how many different connectors you have installed.

1.2.5   Multi-Server Configuration

Sitecore Media Framework can be installed in a multi-server content authoring environment. If your Sitecore environment is configured in this way, you need to configure the following.

Content Management Servers

If you are using the scheduler to synchronize media, only one content management (CM) server needs to have the scheduler configured. Remove the scheduled job from the config files on the other CM servers. The Sitecore event queue will handle keeping the other CM servers in sync.

Note
Configuring the scheduler on multiple CM servers will not cause a problem, but there is no benefit to doing so.

Content Delivery Servers

On each content delivery (CD) server remove the following index from the specified config file. This index is only needed in the CM environment.

- **File:** Sitecore.ContentSearch.MediaFramework.Brightcove.config
- **Index name:** mediaframework_brightcove_index

When configuring CD servers you may find it convenient to copy config files from a CM server. If you do this and you have added a scheduler to synchronize media you should remove the scheduled job from the config files on the CD servers. Media synchronization should not run on the CD servers. It should run on one CM server. Publishing is used to make the media items available on the CD servers.

1.2.6   Configure SSL for Script Link (Optional)

In order to properly play videos, Sitecore Media Framework Brightcove Edition depends on a Javascript file that is hosted by Brightcove. By default, the link to this file uses HTTP. If you want this link to be generated using HTTPS you must make the following changes in the `/App_Config/Include/Sitecore.MediaFramework.Services.Brightcove.config` file:

```
        …
            <playerMarkupGenerators>
              <add name="brightcove_video" templateId="{6A5C6835-6E11-4602-A11D-B626E9255397}"
type="Sitecore.MediaFramework.Brightcove.Players.BrightcovePlayerMarkupGenerator,Sitecore.MediaFr
amework.Brightcove">
                <analyticsScriptUrl>/sitecore
modules/Web/MediaFramework/js/Analytics/brightcove.js</analyticsScriptUrl>

<scriptUrl>https://sadmin.brightcove.com/js/BrightcoveExperiences.js</scriptUrl>
                <parameters hint="raw:AddParameter">
                  <param name="isVid" value="true"/>
                  <param name="isUI" value="true"/>
                  <param name="dynamicStreaming" value="true"/>
                  <param name="includeAPI" value="true"/>
                  <param name="htmlFallback" value="true"/>
                  <param name="templateReadyHandler"
value="brightcoveListener.onTemplateReady"/>
                </parameters>
              </add>
              <add name="brightcove_playlist" templateId="{0E24292F-D7A5-4BA2-BCA0-
CD5F14A89634}"
type="Sitecore.MediaFramework.Brightcove.Players.BrightcovePlayerMarkupGenerator,Sitecore.MediaFr
amework.Brightcove">
                <analyticsScriptUrl>/sitecore
modules/Web/MediaFramework/js/Analytics/brightcove.js</analyticsScriptUrl>
```

```
<scriptUrl>https://sadmin.brightcove.com/js/BrightcoveExperiences.js</scriptUrl>
                    <parameters hint="raw:AddParameter">
                      <param name="isVid" value="true"/>
                      <param name="isUI" value="true"/>
                      <param name="dynamicStreaming" value="true"/>
                      <param name="includeAPI" value="true"/>
                      <param name="htmlFallback" value="true"/>
                      <param name="templateReadyHandler"
value="brightcoveListener.onTemplateReady"/>
                    </parameters>
                  </add>
               </playerMarkupGenerators>
        …
```

1.2.7   Customers in Japan

Customers in Japan must make the following change:

1. Open the file `App_Config/Include/Sitecore.RestSharp.Brightcove.config`
2. Change the `baseUrl` to `http://api.brightcove.co.jp/services`

Chapter 2   Upgrading

This section contains information on how to upgrade to Sitecore Media Framework Brightcove Edition 2.1.

2.1   Upgrading from Media Framework 2.0

To upgrade from version 2.0 to version 2.1 you must do the following:

1. Upgrade your Sitecore server to Sitecore 8.0 update 1 (or greater).
2. Install the package for Media Framework 2.1. Overwrite any existing items and files.
3. Install the package for Media Framework Brightcove Edition 2.1. Overwrite any existing items and files.
4. Republish the master database.
5. Run the database script on the Sitecore reporting database.

2.2 Upgrading from Media Framework 1.4 (an earlier)

To upgrade from version 1.4 (or earlier) to version 2.1 you must upgrade to Media Framework 2.0. Upgrade instructions are available in the Media Framework 2.0 administrators guide.

Chapter 3   Account Configuration

This chapter covers how to create an account in Sitecore that corresponds with a Brightcove Video Cloud account.

3.1 Get Account Credentials from Brightcove

In order for Media Framework to connect to Brightcove Video Cloud, the account credentials from Brightcove must be added to Sitecore. This section describes how to locate the account credentials in Brightcove. The following section describes how to add those credentials to Sitecore.

1. Log into Brightcove Video Cloud. Note the Publisher ID value. You will need to enter this into Sitecore in the following section.
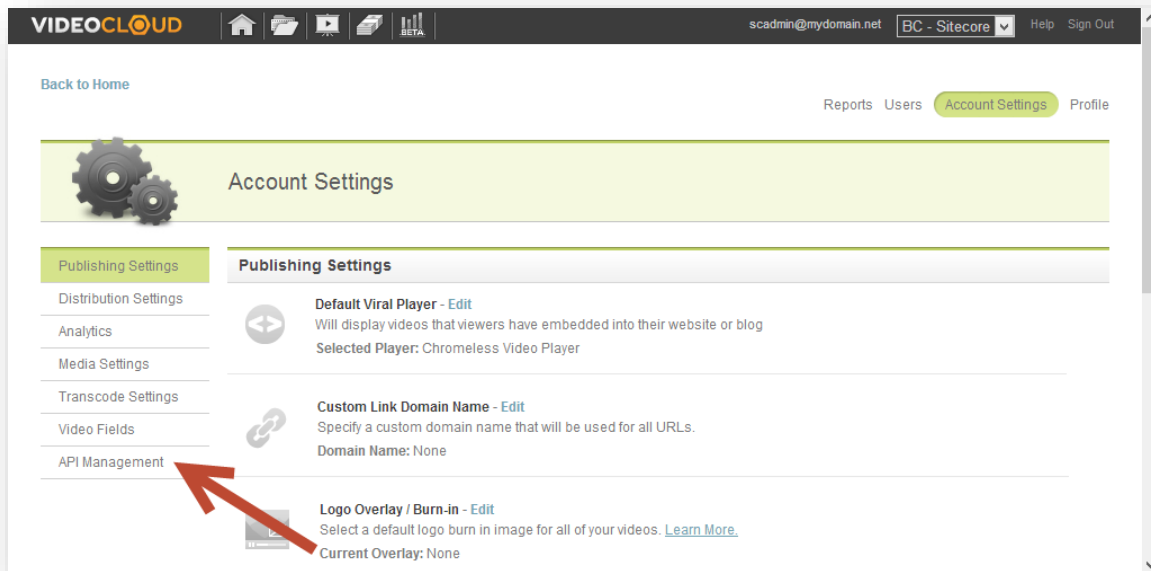
2. Navigate to Account Settings
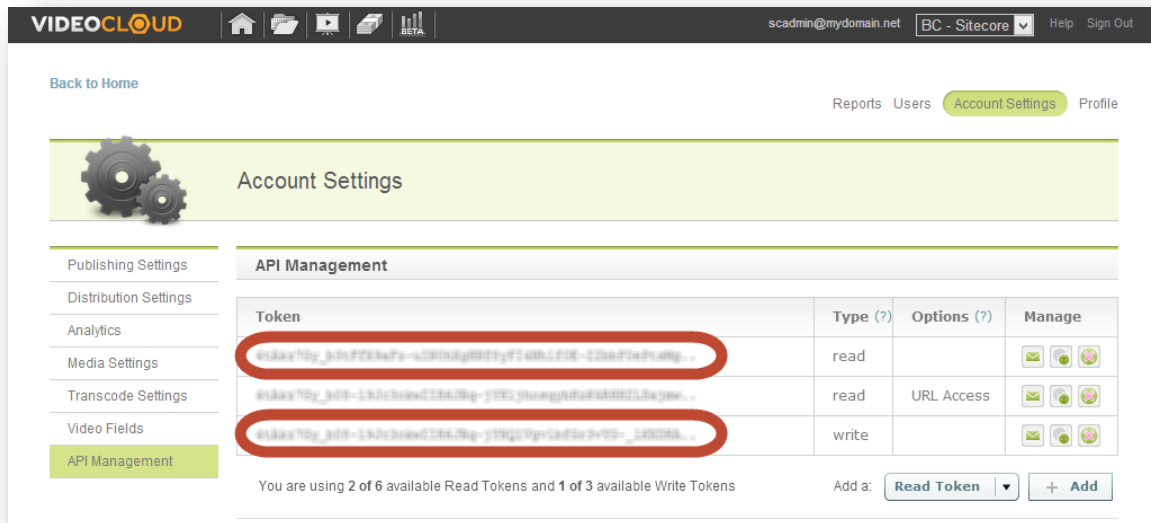
3. Navigate to API Management

4. Note the following values. You will need to enter them into Sitecore in the following section:
    a. Read token
    b. Write token

## 3.2　　　Add Brightcove Account to Sitecore

This section describes how to add a Brightcove account to Sitecore.

1. Log into the Sitecore Desktop
2. Connect to the master database
3. Open Media Library
4. Navigate to Media Library > Media Framework > Accounts
5. Add a new Brightcove Account item. For these instructions I am naming my item "My Brightcove Account".
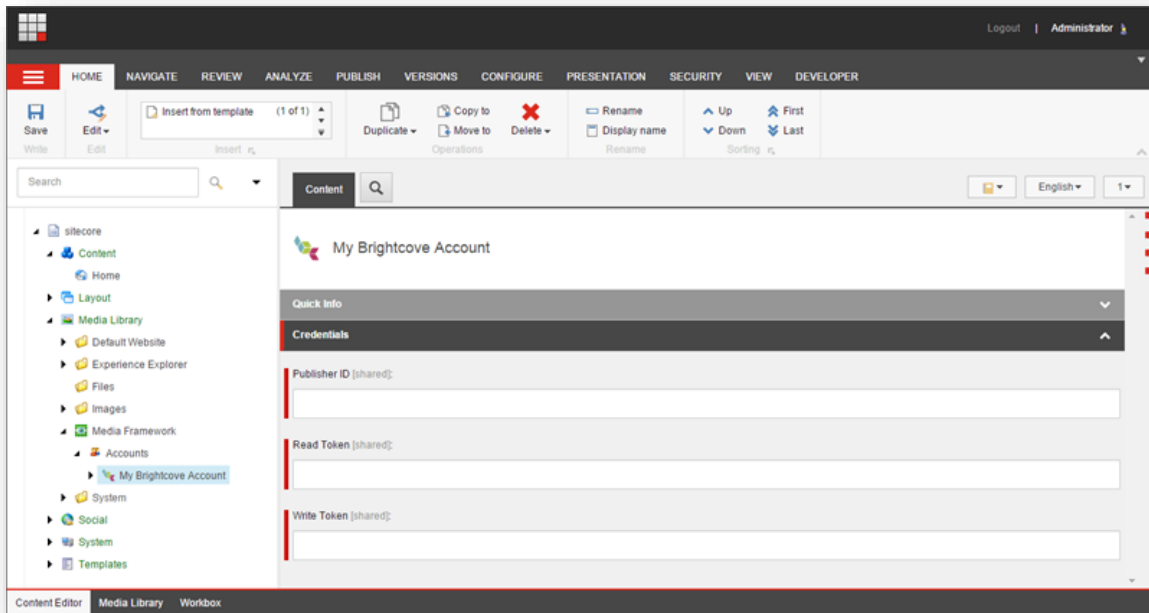
6. Enter the Publisher ID, Read Token and Write Token values noted in the previous section.
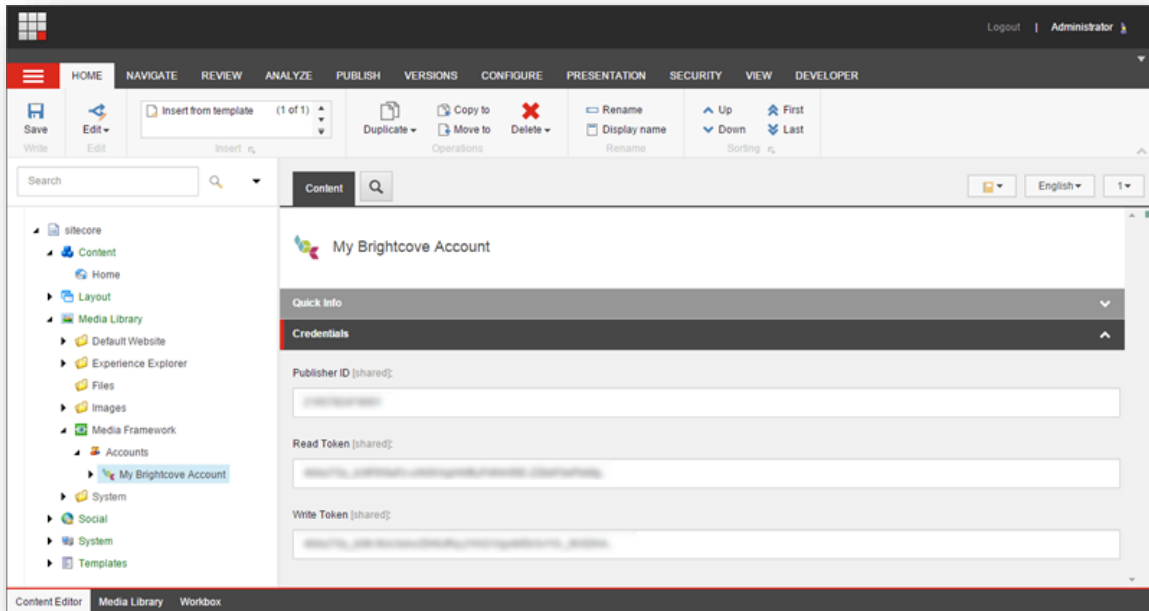
7. Save the item.

Chapter 4 Media Import

In order to efficiently use Brightcove media in Sitecore, Sitecore items are needed to represent the Brightcove media. The process by which these Sitecore items are created and updated is called the media import process.

Before Brightcove media can be used in Sitecore, the media import process must run. In addition, if Sitecore and Brightcove are to be kept in sync, the media import process must run periodically.

This chapter covers the media import process.

4.1 Manual Media Import

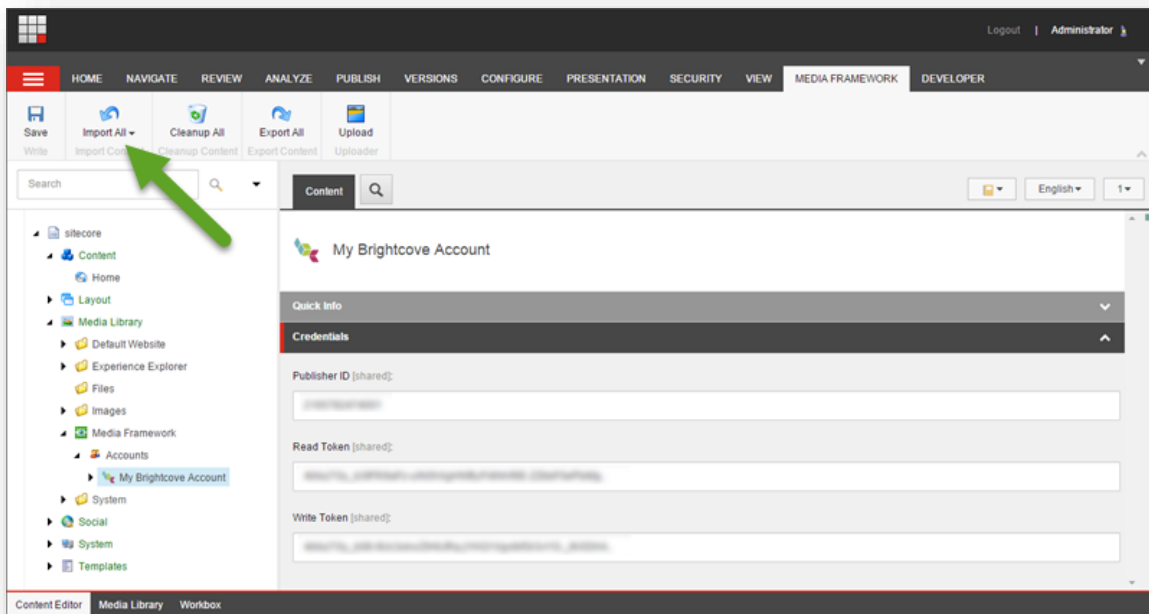A Sitecore content author or administrator can manually trigger the media import process.

1. Display the Media Framework ribbon by right-clicking the top-menu and selecting Media Framework.
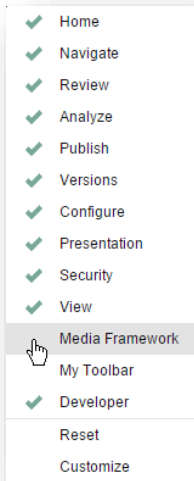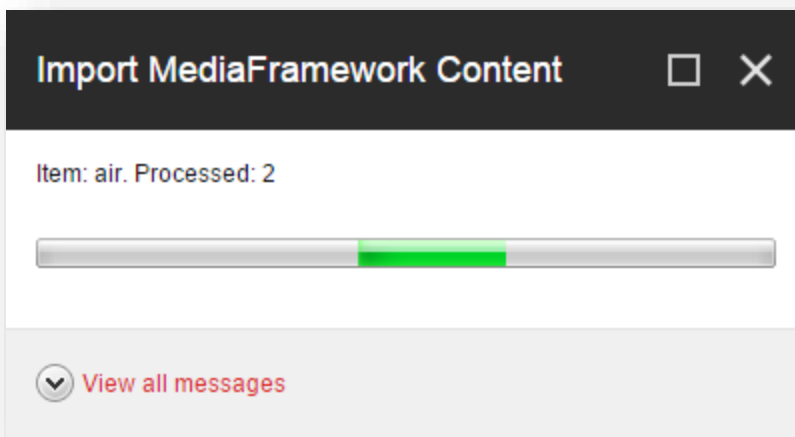

2. Click the Media Framework ribbon.
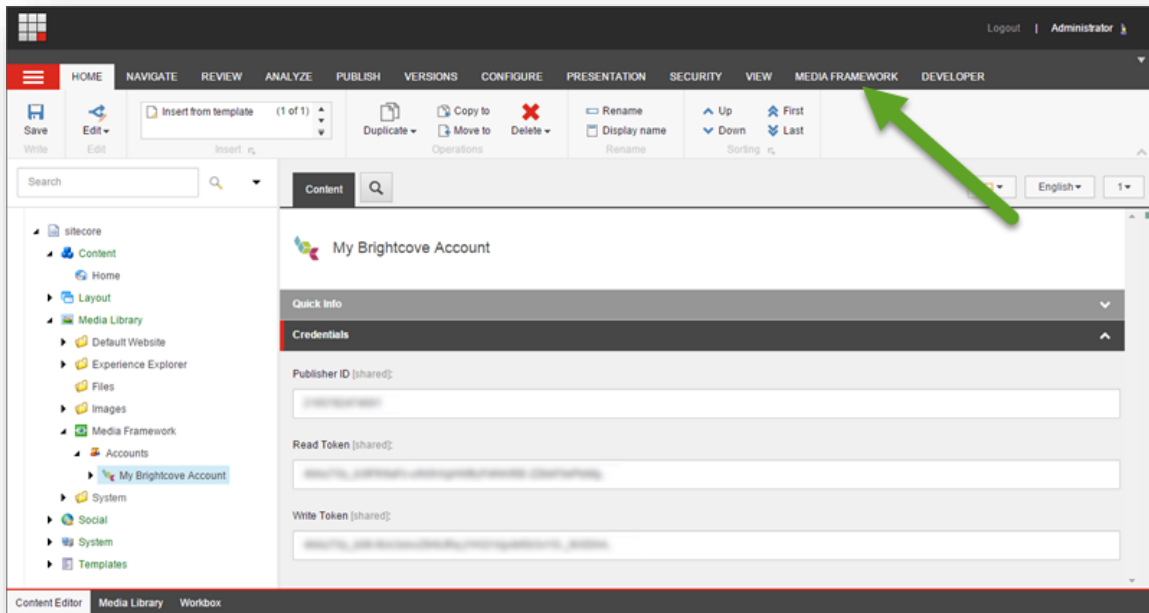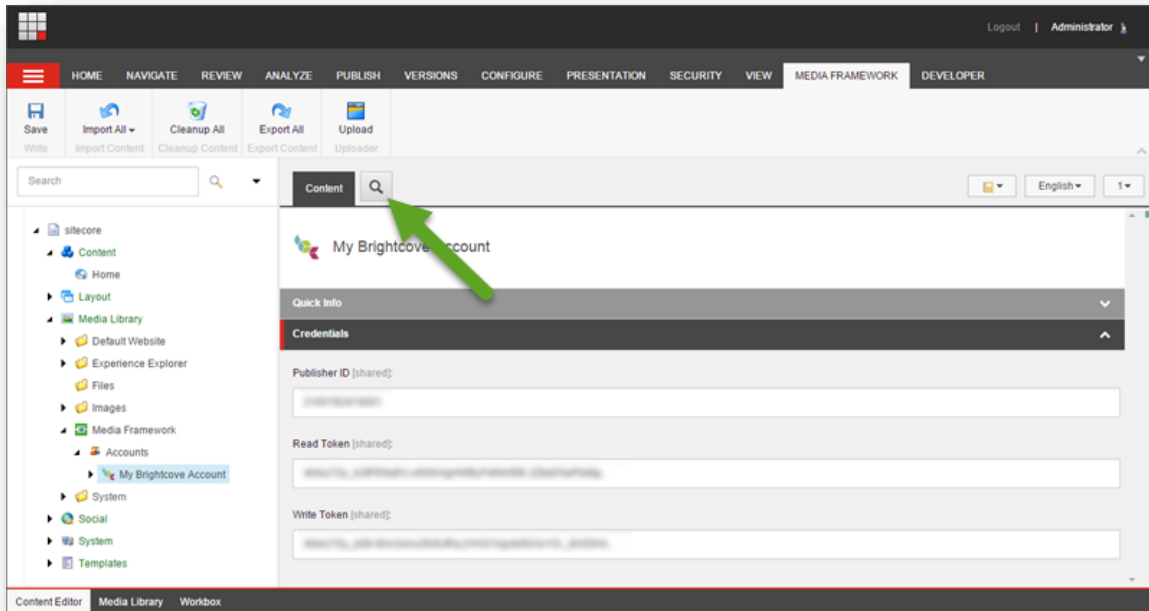
3. Click the Import All button.

4. As the import process runs, a status box appears. When the status box disappears, the import process is complete.
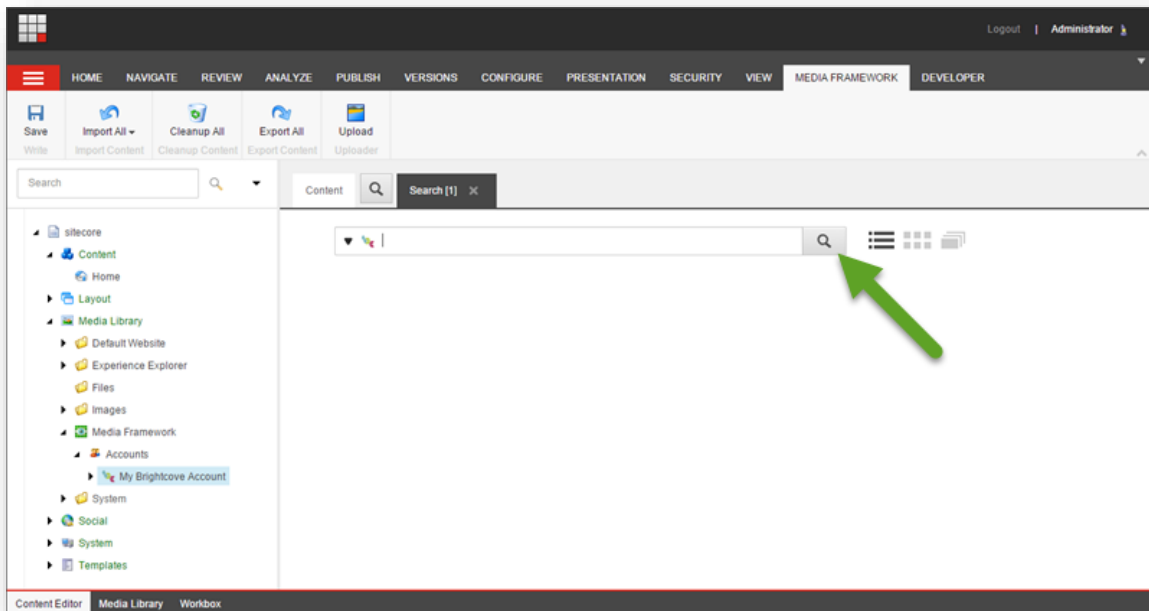
5. To confirm media has been imported, click the Search tab.

6. Perform a search.

7. Search results are displayed.

4.2 Automatic Media Import

The Brightcove Video Connector includes an agent that automatically synchronizes media on a regular basis. The agent is defined in the following location:

Config file:	`Sitecore.MediaFramework.Services.Brightcove.config`
Agent name:	`MediaFramework_Import_Brightcove`

Chapter 5 Manual Media Configuration

The Brightcove Video Cloud API does not support all of the functionality needed in order to completely automate the process of synching media between Brightcove Video Cloud and Sitecore. Certain aspects of the integration must be configured manually.

This chapter covers the manual media configuration a Sitecore administrator must perform.

5.1 Manual Media Types

The Brightcove Video Cloud API does not support all of the media types that are used by the Sitecore Media Framework. Sitecore items must be manually created for these media types.

In addition, access to the settings that are required to configure the Sitecore item are only available to Brightcove Video Cloud administrators. As a result, a Sitecore administrator must configure these Sitecore items.

This section describes how to create the Sitecore items for these media types.
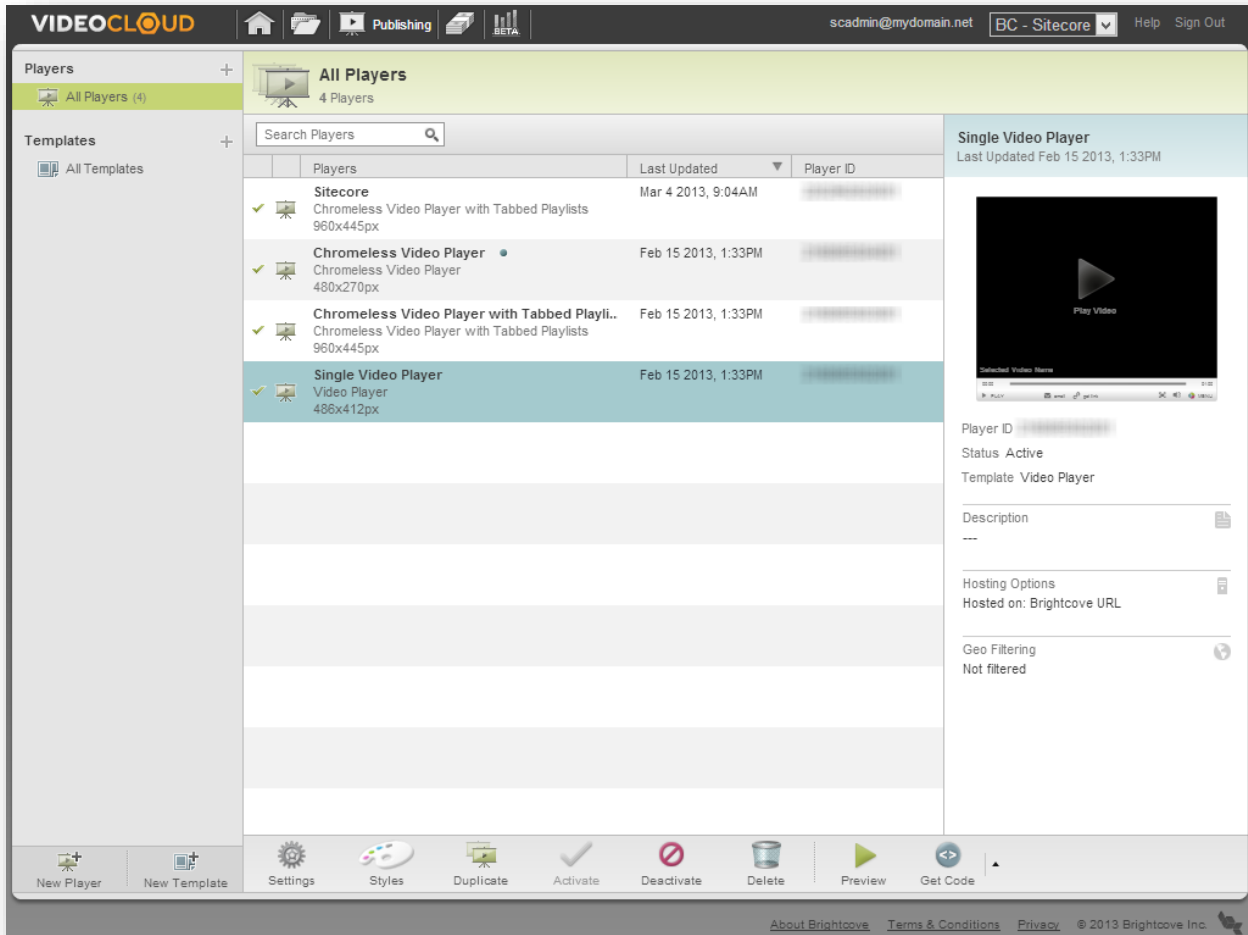
5.1.1 Players

This section describes how to manually create the Sitecore item that corresponds to a player.

1. In Brightcove Video Cloud, navigate to the Publishing section.

2. Select the player you want to create in Sitecore. Note the Player ID value. You will need to enter this into Sitecore in the following section.

3. In Sitecore, in the Media Library, select the Brightcove Account item
4. Select the Accounts item
5. Select the Players item
6. Add a new Brightcove Video Player item. You will be prompted to enter the player ID. Enter the value from Brightcove Video Cloud.

5.2   Set Default Players

In order for videos and playlists to be previewed in Sitecore, the default players must be specified. This section describes how to set the default players.

1. In Sitecore, in the Media Library, select the Brightcove Account item
2. Select the Accounts item
3. Select the Settings item
4. Set the values for the Default Video Player field and the Default Playlist Player field
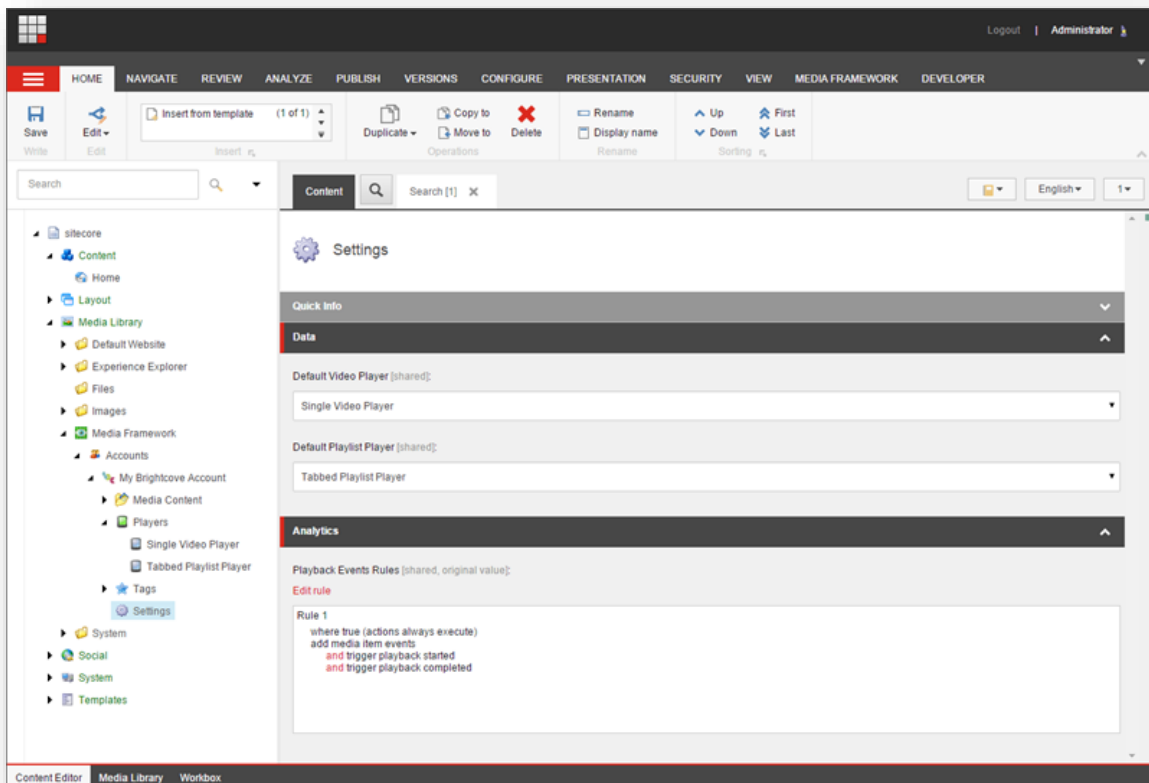
5. Save the item

Chapter 6 Media Export

Within Sitecore, Brightcove media is accessed using Sitecore items that are created during the media import process. Since they are Sitecore items, it is possible for users to change those items. The media export process is responsible for exporting changes from Sitecore to Brightcove.

This chapter covers the media export process.

6.1 Automatic Media Export

When a Sitecore item that corresponds to Brightcove media is created, saved or deleted in the Sitecore client, those changes will be pushed to Brightcove.

6.1.1 Real Time Exports

When a new media item is created in Sitecore, a real time export is performed. This means that the export task is performed immediately.

6.1.2 Preventing Automatic Export

You may not want changes made in Sitecore to be exported to Brightcove. You may want the connection from Sitecore to Brightcove to be read-only, where Brightcove changes are imported to Sitecore but where Sitecore changes are not exported to Brightcove.

In order to prevent changes made in Sitecore from being exported to Brightcove, clear the value of the following setting:

Config file:	`Sitecore.MediaFramework.config`
Setting name:	`Sitecore.MediaFramework.ExportDatabases`

NOTE: This setting applies to the Sitecore Media Framework, not just the Brightcove Video Connector. Changing this setting will apply to all connectors and all accounts.

Chapter 7 **Media Cleanup**

The media cleanup process addresses issues that arise when dealing with synchronized content:

- What happens when media is deleted from Brightcove?

- What happens when a media item is deleted from Sitecore?

This chapter covers the media cleanup process.

7.1 Sitecore Cleanup

Sitecore cleanup is the process that runs when media is deleted in Brightcove and the corresponding Sitecore items must be deleted. Since Brightcove knows nothing about Sitecore, Brightcove cannot notify Sitecore that media has been deleted. Therefore, Sitecore must be proactive.

7.1.1 Manual Cleanup

A Sitecore content author or administrator can manually trigger the cleanup process by clicking the following button in Content Editor:

Strip:	Media Framework
Chunk:	Cleanup Content
Button:	Cleanup All
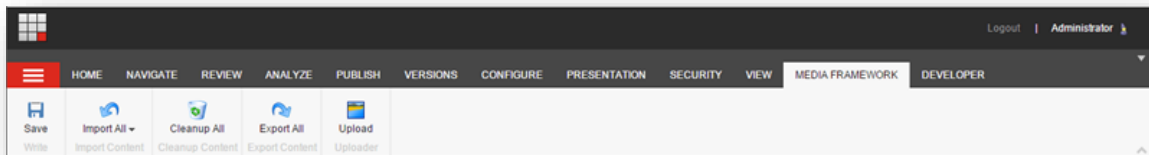
7.1.2 Automatic Cleanup

The Brightcove Video Connector includes an agent that automatically runs the cleanup process on a regular basis. The agent is defined in the following location:

Config file:	Sitecore.MediaFramework.Services.Brightcove.config
Agent name:	MediaFramework_Cleanup_Brightcove

7.2 Brightcove Cleanup

Brightcove cleanup is the process that runs when a media item is deleted in Sitecore and the corresponding media in Brightcove must be deleted or disabled. Since Brightcove knows that the media item was deleted, Sitecore is able to notify Brightcove that the corresponding media in Brightcove should be deleted or disabled.

When a media item is deleted in the Sitecore client, an entry is made in the export queue. The process is the same as when a media item is saved. For more information see section 6.1.