CrownPeak Brightcove Integration

Contents

Document History

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Brightcove Integration Overview

Brightcove is an online video hosting and streaming service provider. A large number of CrownPeak customers leverage Brightcove and require the ability to integrate the service within the CrownPeak CMS to easily select Brightcove hosted videos to serve within CrownPeak managed webites.

Without an integration, customers would have to visit the Brightcove website to identify and select their desired video(s), and copy/paste the provided Brightcove code in a WYSIWYG control within the CrownPeak CMS.

This process is prone to user error, and force the customer to constantly switch between the two environments for basic content selection.

This document illustrates the various options to integrate Brightcove within the CrownPeak CMS:

Non-API Integration
Implementing the Brightcove player code as a reusable widget, prompting the user for an ID.

Video API Integration
Build upon the non-API integration by using the Brightcove API to provide the user with a list of Brightcove videos retrieved using the API, and automatically applying the ID of the selected video.

BrightCove Integration – Benefits

Non-API Integration – Using the Brightcove video player code
The user does not have ensure the code is copied and pasted properly within a WYSIWYG control. They only have to copy and paste the Brightcove ID.

API integration
The user doesn't have to switch between the CMS and the Brightcove Website.

All Brightcove videos can be retrieved and displayed within a drop-down menu, allowing the user to easily select their desired video. The template automatically applies the ID of the selected video.

Using the Brightcove Video API

To retrieve Video List Data using Brightcove Video API:

1. Login to the Brightcove Web page.
2. Locate the Token. There are two types of tokens (Read and Write tokens). We only need the Read Token.
3. Login to the Video Cloud Studio.

   The Video Cloud Studio home page will display.

4. Click the Account Settings link at the top right. You must have Administrator privileges to access this area of the Studio.

   The Account Settings page will display.

5. Click API Management.

   The API Management window will display.

Token	Type (?)	Options (?)	Manage
j1R2gIYQ1ws3N8_M3iJJ-XgDbsimt_dNkT0uim3KgvA..	read		
j1R2gIYQ1wvkR6Vb-mvPQf5QWEuNiqOSxBOQGQOfIjw..	read	URL Access	
j1R2gIYQ1wvkR6Vb-mvPVmrVA5Y3-TuMXftUGPKNJA..	write		
XYhHWeYaFy92dC56B5GRpYEJB3goyc-sajk_-E5NA..	read		

You are using **3** of **6** available Read Tokens and **1** of **3** available Write Tokens   Add a: [Read Token ▼]   + Add

API Management window

6. Select the token you Read Token you require and then you can retrieve video data from Brightcove.

Retrieving Video Data from Brightcove

There are two ways to get the video data, JSON (default) or XML.

Get List of Video in JSON (Default)

Pass the parameter "output=json" to return JSON. You can skip this as JSON is the default.

http://api.brightcove.com/services/library?command=find_all_videos&token=0Z2dtxTdJAxtbZ-d0U7Bhio2V1Rhr5Iafl5FFtDPY8E.

Get List of Video in XML

Pass the parameter "output=mrss" to get the data in XML. I recommend using XML output since we can easily use XML parser from our CMS API.

http://api.brightcove.com/services/library?command=find_all_videos&token=0Z2dtxTdJAxtbZ-d0U7Bhio2V1Rhr5Iafl5FFtDPY8E.&output=mrss

Accessing the Brightcove Video Library

The Brightcove API video library is located at: *http://api.brightcove.com/services/library*.

Adding Parameters

- Use `command=find_all_videos` to search all videos (if you want to do different type of search, please refer to Brightcove Video API).
- Use `token=0Z2dtxTdJAxtbZ-d0U7Bhio2V1Rhr5Iafl5FFtDPY8E`. This Token is unique and you can find it from Brightcove in Account Settings.
- Use `output=mrss` to indicate the type of returned data. Type `output=mrss` to return XML. Skip this part and it will return JSON data.

Accessing Brightcove Video API Samples

The example below gets the last 2 published videos in descending order.

http://api.brightcove.com/services/library?command=find_all_videos&output=mrss&page_size=2&sort_by=publish_date&sort_order=desc&token=0Z2dtxTdJAxtbZ-d0U7Bhio2V1Rhr5Iafl5FFtDPY8E.

Using Video List Data in the CrownPeak CMS

Once we can retrieve Video List in XML data from Brightcove, we can easily customize the "Edit Form" depending on the customer needs.

This example creates a drop-down list of videos using ID as value:

Sample Input.aspx

```csharp
Dictionary<string, string> dtVideos = new Dictionary<string,string>();
GetHttpResponse httpResponse =
Util.GetHttp("http://api.brightcove.com/services/library?command=find_all_videos&token=0Z2dtxTdJAxtbZ-
d0U7Bhio2V1Rhr5Iafl5FFtDPY8E.&output=mrss");
string szXml = string.Empty;
string szKey;
string szValue;

if (httpResponse.StatusCode >= 200 && httpResponse.StatusCode < 300)
    szXml = httpResponse.ResponseText;

if (!string.IsNullOrWhiteSpace(szXml) && szXml.Contains("<rss version") && szXml.Contains("</rss>"))
{
    List<XmlNode> xmlNodeList = Util.LoadXml(szXml, "item");
    foreach (XmlNode xmlNode in xmlNodeList)
    {
        if (xmlNode.Name == "item")
        {
            szKey = string.Empty;
            szValue = string.Empty;
            foreach (XmlNode xnField in xmlNode.XmlNodes)
            {
                if (xnField.Name.Equals("bc:titleid", StringComparison.OrdinalIgnoreCase))
                    szValue = xnField.Value.Trim();

                if (xnField.Name.Equals("title", StringComparison.OrdinalIgnoreCase))
                    szKey = xnField.Value.Trim();
            }

            if (!string.IsNullOrWhiteSpace(szKey) && !string.IsNullOrWhiteSpace(szValue))
            {
                string szNewKey = string.Format(szKey + " ({0})", szValue);
                dtVideos.Add(szNewKey, szValue);
            }
        }
    }
}
Input.ShowDropDown("Brightcove List", "dd_video_list", dtVideos);
```
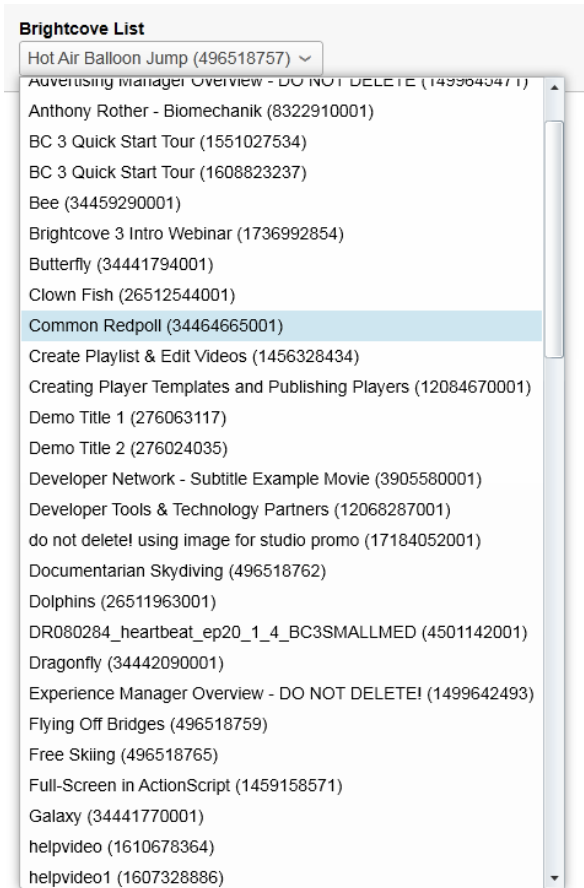
Input Form in CrownPeak CMS

Notes and Additional Information

BrightCove Video API

http://docs.brightcove.com/en/video-cloud/media/reference.html

Finding tokens in BrightCove

http://support.brightcove.com/en/video-cloud/docs/managing-media-api-tokens