

Batch Provisioning



Batch Provisioning

- FTP & XML
- Encoding
 - DIY
 - Brightcove
- Automated process with backend coding like PHP, JAVA
- No filesize limit per uploaded video



Batch Provisioning Requirements

- FTP account issued by Brightcove
- Brightcove compliant XML manifest
- Create assets and make titles out of assets
- 8GB or 500 video assets per batch upload
- Upload all media assets first followed by the XML manifest

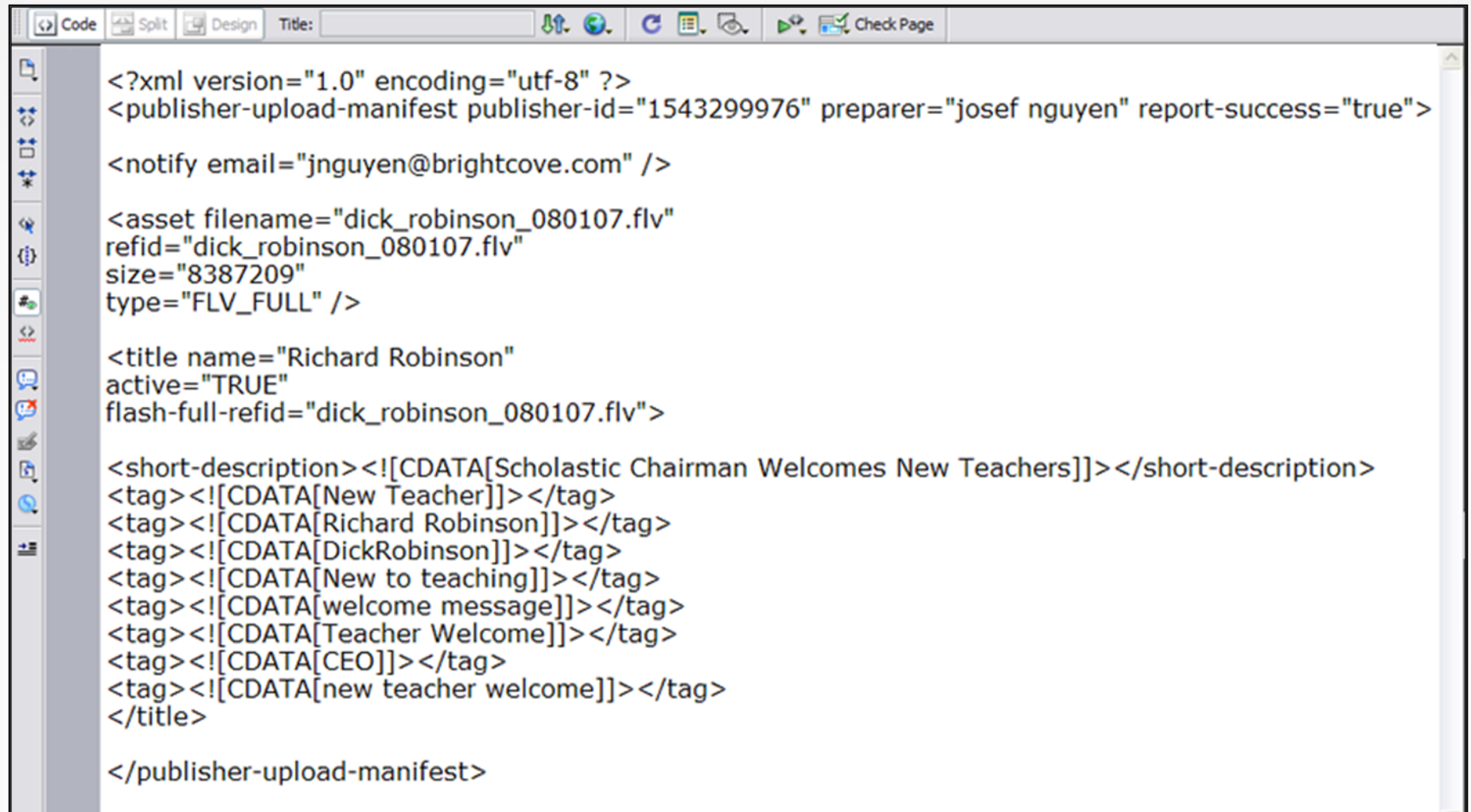


XML manifest for non-FLV processing

```
1 <?xml version="1.0" encoding="utf-8" ?>
2 <publisher-upload-manifest publisher-id="123456789" preparer="JN" report-success="true">
3   <notify email="jnguyen@brightcove.com" />
4   <asset
5     encode-to="MP4"
6     encode-multiple="true" ———→ Processing into multiple renditions
7     filename="animal_medley_batch_encode.mp4"
8     size="80414012"
9     type="VIDEO_FULL"
10    refid="batch_encoding_test"
11    h264-preserve-as-rendition="false">
12 </asset>
13 <title
14   name="batch encoding example"
15   active="TRUE"
16   video-full-refid="batch_encoding_test">
17   <short-description>Sample using FTP and XML batch encoding</short-description>
18 </title>
19 </publisher-upload-manifest>
```



XML manifest for FLV videos

A screenshot of a code editor window with a toolbar at the top containing icons for Code, Split, Design, Title, and various development tools. The main text area displays an XML manifest for FLV videos. The XML structure includes a root element 'publisher-upload-manifest' with attributes for publisher-id, preparer, and report-success. It contains a 'notify' element with an email attribute, an 'asset' element with filename, refid, size, and type attributes, a 'title' element with name, active, and flash-full-refid attributes, and a 'short-description' element followed by a series of 'tag' elements containing CDATA blocks with text like 'New Teacher', 'Richard Robinson', 'DickRobinson', 'New to teaching', 'welcome message', 'Teacher Welcome', 'CEO', and 'new teacher welcome'.

```
<?xml version="1.0" encoding="utf-8" ?>
<publisher-upload-manifest publisher-id="1543299976" preparer="josef nguyen" report-success="true">

  <notify email="jnguyen@brightcove.com" />

  <asset filename="dick_robinson_080107.flv"
  refid="dick_robinson_080107.flv"
  size="8387209"
  type="FLV_FULL" />

  <title name="Richard Robinson"
  active="TRUE"
  flash-full-refid="dick_robinson_080107.flv">

    <short-description><![CDATA[Scholastic Chairman Welcomes New Teachers]]></short-description>
    <tag><![CDATA[New Teacher]]></tag>
    <tag><![CDATA[Richard Robinson]]></tag>
    <tag><![CDATA[DickRobinson]]></tag>
    <tag><![CDATA[New to teaching]]></tag>
    <tag><![CDATA[welcome message]]></tag>
    <tag><![CDATA[Teacher Welcome]]></tag>
    <tag><![CDATA[CEO]]></tag>
    <tag><![CDATA[new teacher welcome]]></tag>
  </title>

</publisher-upload-manifest>
```



XML manifest for Re-Encoding from FLV Source

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <publisher-upload-manifest publisher-id="123456789" preparer="JN" report-success="TRUE">
3   <notify email="jnguyen@brightcove.com"/>
4   <reencode-from-existing-source
5     title-refid="Elephant.flv"
6     encode-to="MP4"
7     encode-multiple="TRUE"
8     overwrite-images="TRUE"
9   />
10  <reencode-from-existing-source
11    title-refid="Deer.flv"
12    encode-to="MP4"
13    encode-multiple="TRUE"
14    overwrite-images="TRUE"
15  />
16 </publisher-upload-manifest>
```



XML manifest for uploading H.264

```
1 <?xml version="1.0" encoding="ISO8859-1" ?>
2 <publisher-upload-manifest publisher-id="123456789" preparer="Josef" report-success="true">
3 <notify email="jnguyen@brightcove.com" />
4
5     <asset refid="High_Test2"
6         type="VIDEO_FULL"
7         size="6882578"
8         filename="High_Test.mp4"
9         encoding-rate="2000000"
10        frame-width="1440"
11        frame-height="810"
12        h264-no-processing="TRUE"/>
13
14     <asset refid="Low_Test2"
15         type="VIDEO_FULL"
16         size="3449853"
17         filename="Low_Test.mp4"
18         encoding-rate="700000"
19         frame-width="650"
20         frame-height="366"
21         h264-no-processing="TRUE"/>
22
23     <title name="Rendition Test2"
24         refid="Custom_Renditions_2"
25         active="TRUE">
26
27         <short-description>Custom Renditions Test</short-description>
28         <rendition-refid>High_Test2</rendition-refid>
29         <rendition-refid>Low_Test2</rendition-refid>
30     </title>
31 </publisher-upload-manifest>
```



Documentation on transcoding and multi-bitrate streaming with batch provisioning feature

- » What is Multi-bitrate Streaming?
<http://support.brightcove.com/en/knowledge-base/what-multi-bitrate-streaming>
- » Using Multi-bitrate Streaming
<http://support.brightcove.com/en/docs/using-dynamic-delivery>
- » Using FTP Batch Provisioning
<http://support.brightcove.com/en/docs/using-ftp-batch-provisioning>
- » Using Multi-Bitrate Streaming with Batch Provisioning
<http://support.brightcove.com/en/docs/using-dynamic-delivery-batch-provisioning>
- » Reference for the XML manifest
<http://support.brightcove.com/en/docs/ftp-batch-provisioning-reference-xml-manifest>
- » Batch Provisioning DTD
http://files.brightcove.com/publisher_upload_manifest_1.4.zip
- » FTP Batch Provisioning: Troubleshooting
<http://support.brightcove.com/en/docs/ftp-batch-provisioning-troubleshooting>
- » Re-encoding Existing Videos
<http://support.brightcove.com/en/docs/re-encoding-existing-videos>



Working with Support

➤ Best Practice is to Notify Prior to Large Batch Uploads (Over 50 GB)

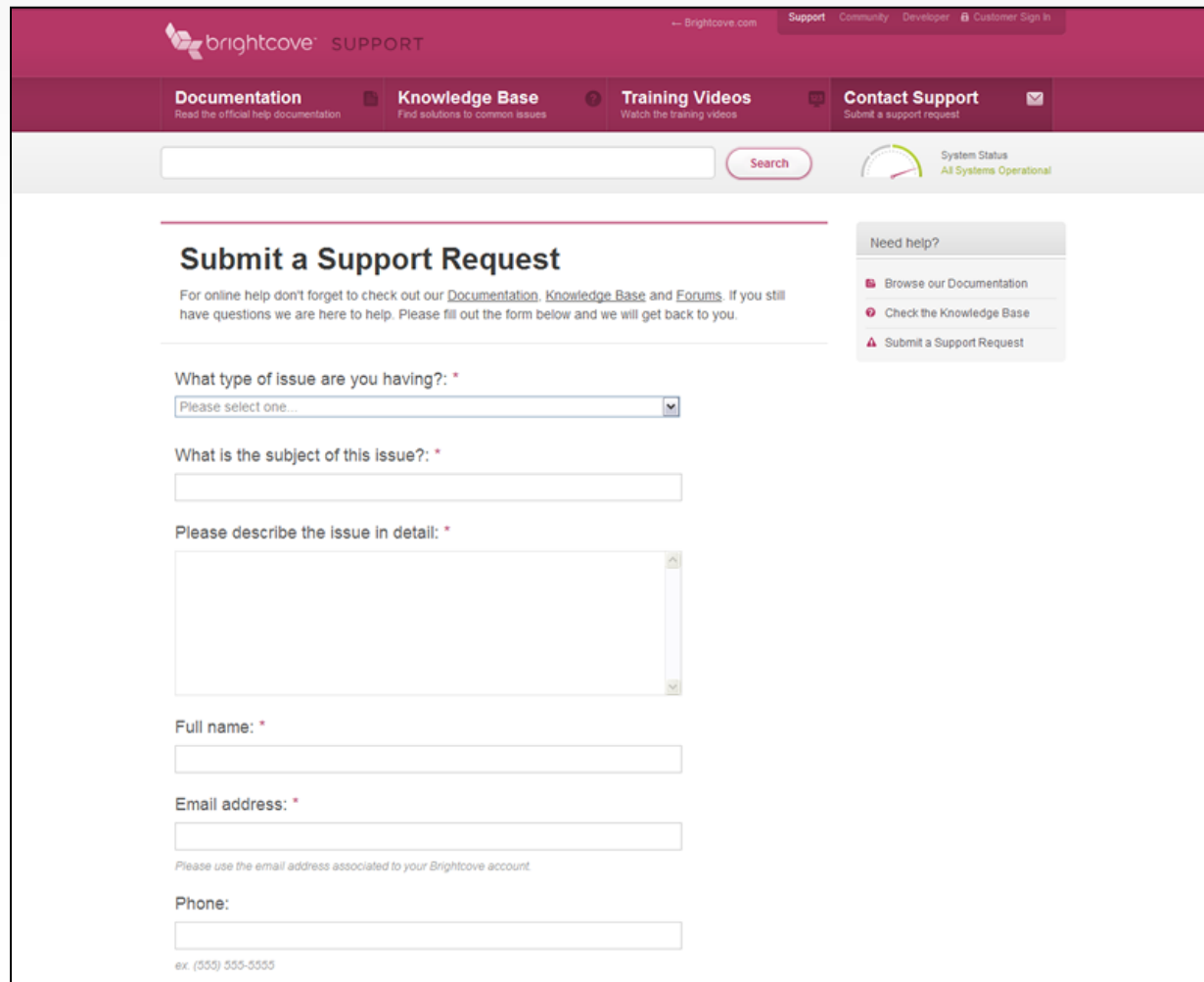
- A support online form should be filled out at least 48 hours prior to the desired upload date
- The form should include the following information:
 - the number of files to be uploaded
 - the total file size of the upload
 - if encoded into multiple renditions
 - average length of content
 - the expected upload day and time



Batch Provisioning

► Notification Prior to Batch Provisioning

- The support online form can be found here: <http://support.brightcove.com/en/contact>



The screenshot displays the Brightcove Support website. The header is maroon with the Brightcove logo and 'SUPPORT' text. Navigation links include 'Documentation', 'Knowledge Base', 'Training Videos', and 'Contact Support'. A search bar and a 'System Status' indicator (All Systems Operational) are also present. The main content area is titled 'Submit a Support Request' and includes a brief instruction: 'For online help don't forget to check out our Documentation, Knowledge Base and Forums. If you still have questions we are here to help. Please fill out the form below and we will get back to you.' The form contains the following fields:

- What type of issue are you having?: *** (Dropdown menu with 'Please select one...' text)
- What is the subject of this issue?: *** (Text input field)
- Please describe the issue in detail: *** (Large text area)
- Full name: *** (Text input field)
- Email address: *** (Text input field, with a note: 'Please use the email address associated to your Brightcove account.'
- Phone:** (Text input field, with an example: 'ex. (555) 555-5555')

A sidebar on the right titled 'Need help?' contains links: 'Browse our Documentation', 'Check the Knowledge Base', and 'Submit a Support Request'.



Batch Provisioning – FTP Upload Process

FileZilla - Connected to upload.brightcove.com

File Edit Transfer View Queue Server Help

Address: User: Password: Port: Quickconnect

Response: 227 Entering Passive Mode (64,152,208,20,198,123)
Command: LIST
Response: 150 Data connection accepted from 192.168.100.2:63073; transfer starting.
Response: 226 Listing completed.
Status: Directory listing successful
Command: REST 0
Response: 350 Will attempt to restart at position 0.

Local Site: P:\sevenone\recent\5_15_08\

Remote Site: /

Filename	Filesize	Filetype	Date	Time	Permissions
<Empty directory listing>					

Filename	Filesize	Filetype	Last Modified
pro7_051508_manifest.xml	2 KB	XML File	5/15/2008 13
tvh_GNTM_s03e12_1316kbit.flv	984 MB	Flash Video	5/15/2008 10
tvh_GNTM_s03e12_1516kbit.flv	1123 MB	Flash Video	5/15/2008 12
tvh_GNTM_s03e12_516kbit.flv	406 MB	Flash Video	5/15/2008 4:
tvh_GNTM_s03e12_716kbit.flv	550 MB	Flash Video	5/15/2008 11
tvh_GNTM_s03e12_916kbit.flv	691 MB	Flash Video	5/15/2008 3:

Selected 1 file with 2127 bytes.

Empty directory.

Local Filename	Size	Direction	Remote Filename	Host	Status
P:\sevenone\recent\5_15_08\tvh_GNTM_s03e12_1316kbit.flv	1032789800	-->	/tvh_GNTM_s03e12_1316kbit.flv	upload.brightcov...	
P:\sevenone\recent\5_15_08\tvh_GNTM_s03e12_1516kbit.flv	1178359144	-->	/tvh_GNTM_s03e12_1516kbit.flv	upload.brightcov...	
P:\sevenone\recent\5_15_08\tvh_GNTM_s03e12_516kbit.flv	426206318	-->	/tvh_GNTM_s03e12_516kbit.flv	upload.brightcov...	
P:\sevenone\recent\5_15_08\tvh_GNTM_s03e12_716kbit.flv	577295227	-->	/tvh_GNTM_s03e12_716kbit.flv	upload.brightcov...	
P:\sevenone\recent\5_15_08\tvh_GNTM_s03e12_916kbit.flv	724948540	-->	/tvh_GNTM_s03e12_916kbit.flv	upload.brightcov...	
P:\sevenone\recent\5_15_08\pro7_051508_manifest.xml	2127	-->	/pro7_051508_manifest.xml	upload.brightcov...	

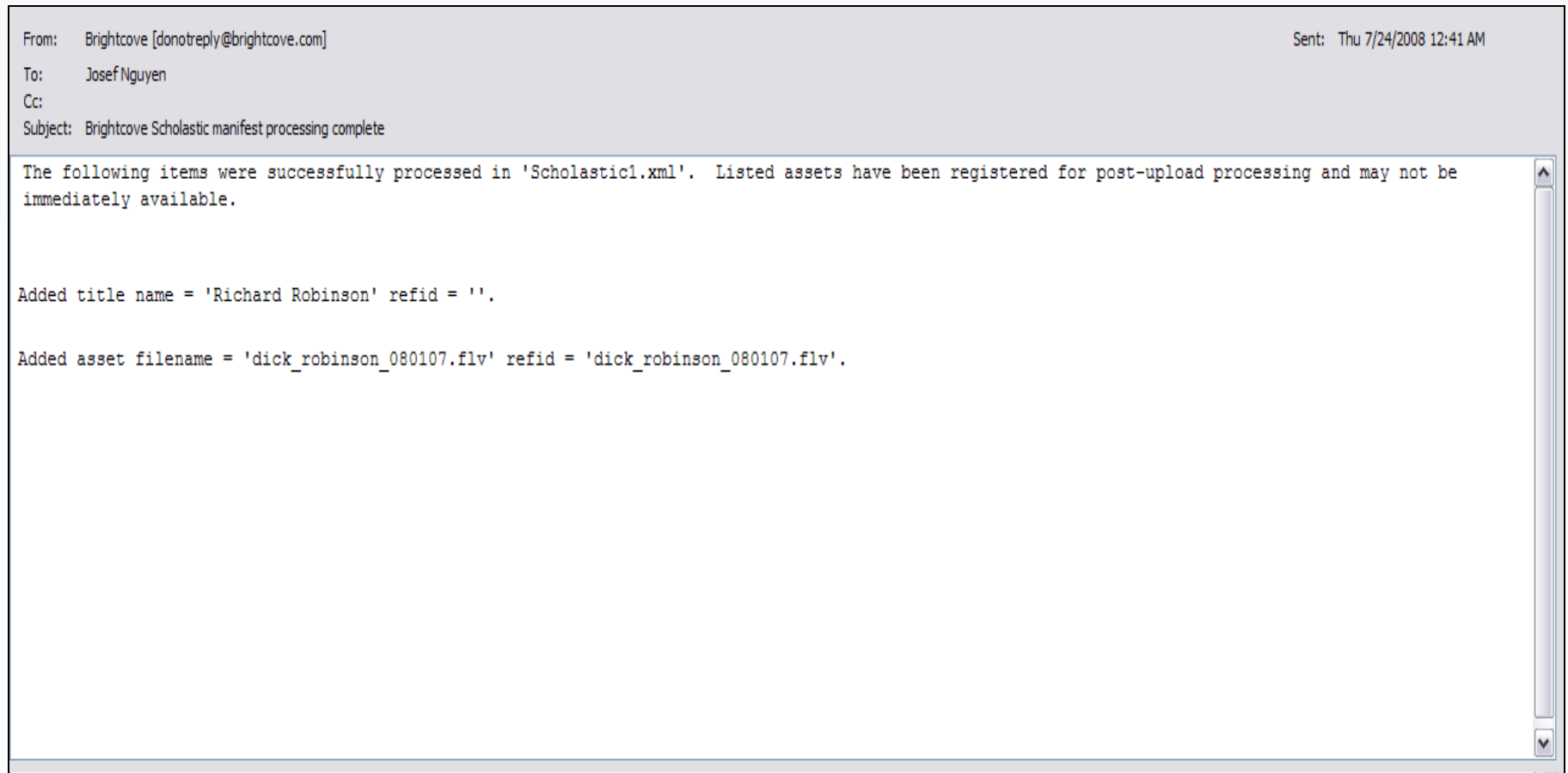
Ready

Queue: 3757 MB

Upload all assets first followed by the manifest

Email Notification

- Upon completing the uploading process, an email notification will be sent if the process was successful or if there were any errors



Default Transcoded Settings for Video Renditions

resolution (4:3)	resolution (16:9)	bit rate	encoding passes
1280x960	1280x720	1800kbps total; 1672kbps video, 128kbps audio	one pass
640x480	640x360	1200kbps total; 1072kbps video, 128kbps audio	one pass
640x480	640x360	800kbps total; 672kbps video, 128kbps audio	one pass
480x360	480x270	512kbps total; 448kbps video, 64kbps audio	one pass
320x240	320x180	350kbps total; 286kbps video, 64kbps audio	one pass
320x240	320x180	264kbps total; 200kbps video, 64kbps audio	two pass (FLV/VP6) one pass (MP4/H.264)

To customize these transcoding options –
<http://support.brightcove.com/en/docs/setting-your-transcoding-options>

