Batch Provisioning

Batch Provisioning

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

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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

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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"
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>
```

Processing into multiple renditions

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XML manifest for FLV videos

Code | Split | Design | Title: | Check Page

```
<?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>
```

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XML manifest for Re-Encoding from FLV Source

```
<?xml version="1.0" encoding="UTF-8"?>
<publisher-upload-manifest publisher-id="123456789" preparer="JN" report-success="TRUE">
  <notify email="jnguyen@brightcove.com"/>
  <reencode-from-existing-source
     title-refid="Elephant.flv"
     encode-to="MP4"
     encode-multiple="TRUE"
     overwrite-images="TRUE"
  />
  <reencode-from-existing-source
     title-refid="Deer.flv"
     encode-to="MP4"
     encode-multiple="TRUE"
     overwrite-images="TRUE"
  />
</publisher-upload-manifest>
```

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XML manifest for uploading H.264

```
<?xml version="1.0" encoding="ISO8859-1" ?>
<publisher-upload-manifest publisher-id="123456789" preparer="Josef" report-success="true">
<notify email="jnguyen@brightcove.com" />

    <asset refid="High_Test2"
    type="VIDEO_FULL"
    size="6882578"
    filename="High_Test.mp4"
    encoding-rate="2000000"
    frame-width="1440"
    frame-height="810"
    h264-no-processing="TRUE"/>

    <asset refid="Low_Test2"
    type="VIDEO_FULL"
    size="3449853"
    filename="Low_Test.mp4"
    encoding-rate="700000"
    frame-width="650"
    frame-height="366"
    h264-no-processing="TRUE"/>

    <title name="Rendition Test2"
    refid="Custom_Renditions_2"
    active="TRUE">

    <short-description>Custom Renditions Test</short-description>
    <rendition-refid>High_Test2</rendition-refid>
    <rendition-refid>Low_Test2</rendition-refid>
    </title>
</publisher-upload-manifest>
```

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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

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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

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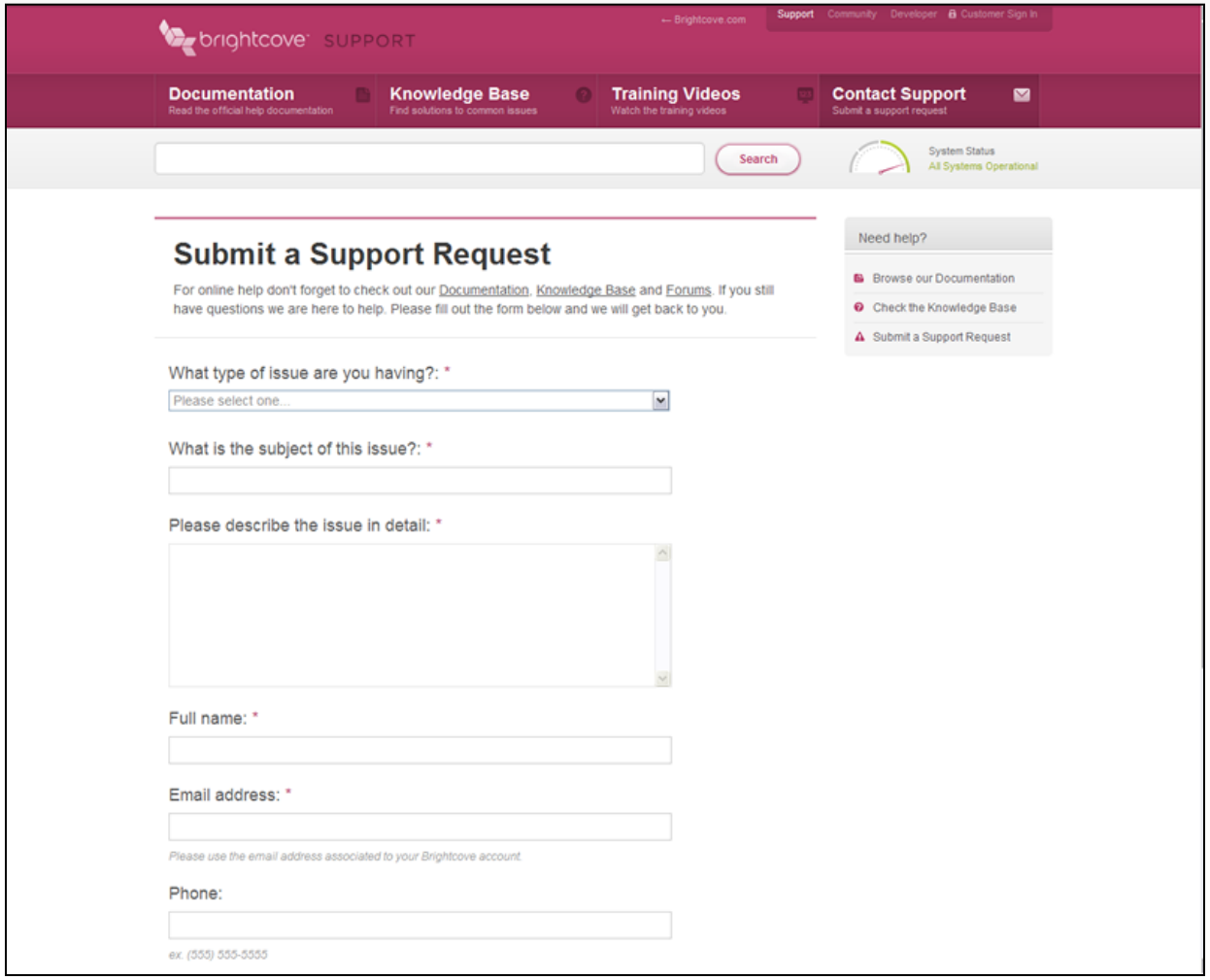
Batch Provisioning

- Notification Prior to Batch Provisioning
  - The support online form can be found here: http://support.brightcove.com/en/contact



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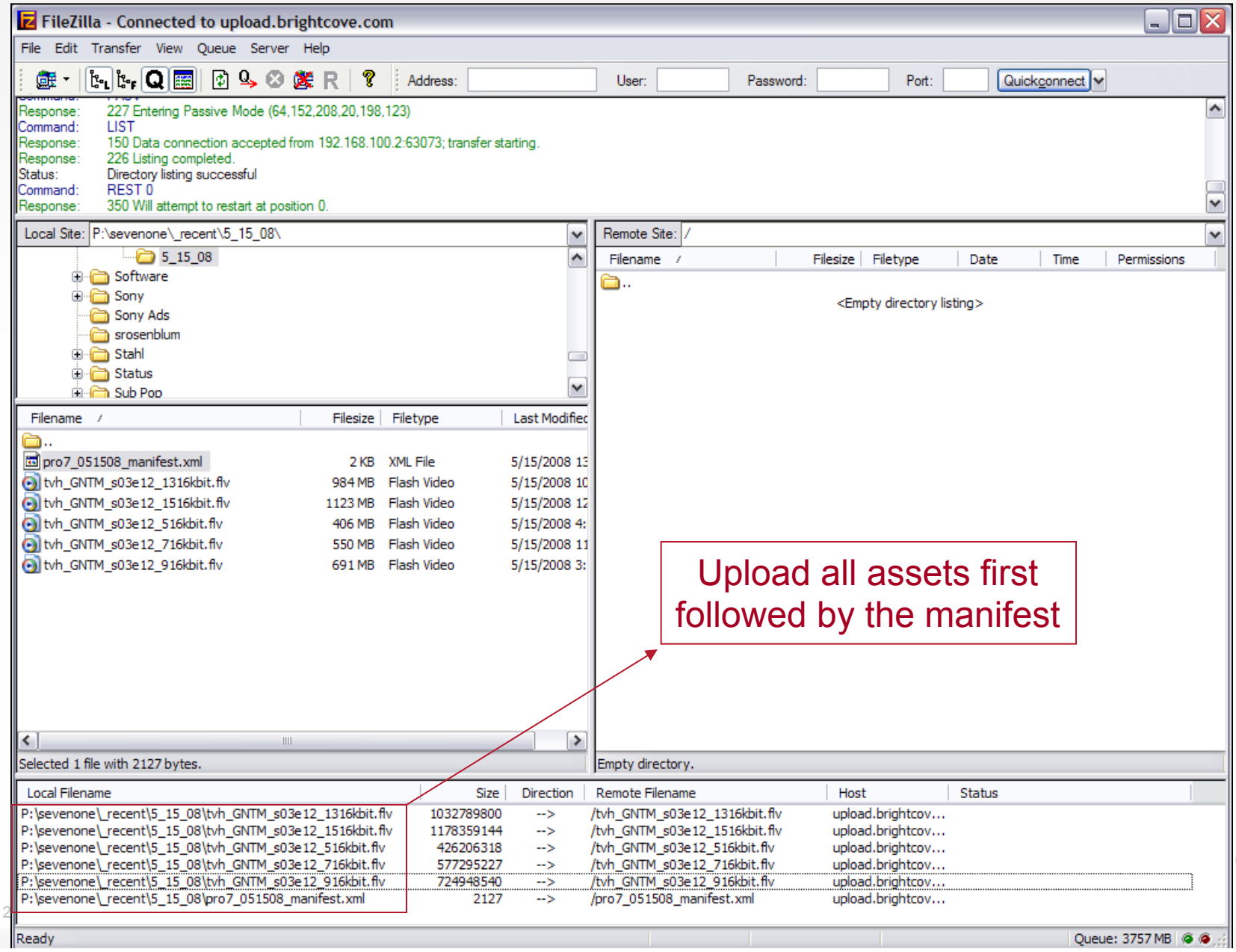
Batch Provisioning – FTP Upload Process



Upload all assets first followed by the manifest

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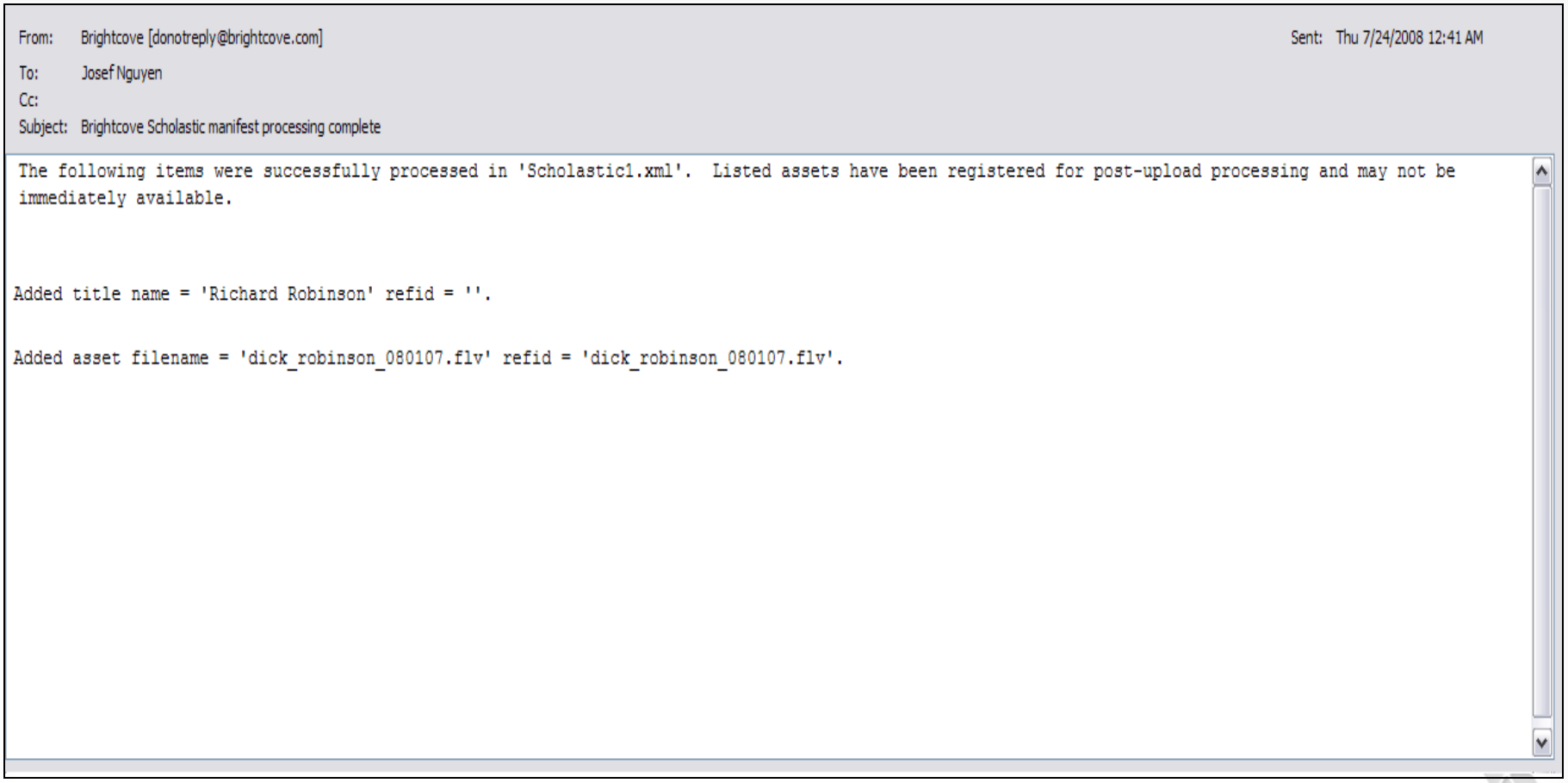
Email Notification

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



From: Brightcove [donotreply@brightcove.com] Sent: Thu 7/24/2008 12:41 AM

To: Josef Nguyen

Cc:

Subject: Brightcove Scholastic manifest processing complete

The following items were successfully processed in 'Scholastic1.xml'. Listed assets have been registered for post-upload processing and may not be immediately available.

Added title name = 'Richard Robinson' refid = ''.

Added asset filename = 'dick_robinson_080107.flv' refid = 'dick_robinson_080107.flv'.

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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

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