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**Image Processing Service**  
**Application Programming Interface**  
Version 16.12.2009

# 1. Authentication

## Constructing the authentication string

In order to use the API you need an API USER and an API KEY; they are both provided when signing up.

Each resource can handle one or more of the following HTTP methods : GET, PUT, DELETE, POST.

There are several required HTTP headers :

- **Date** - for example: Wed, 01 Feb 2008 12:00:00 GMT
- **X-IPS-Client** - for example: test-account
- **X-IPS-Accept** - it can take 2 values: xml or json
- **X-IPS-Auth** - for example: 90a6d325e982f764f86a7e248edf6a660d4ee833

The value of X-IPS-Auth header is used for authentication of the request. See below the way this header is constructed:

**step 1** : signature\_string = concatenate strings (HTTP verb , Query String , X-IPS-Client header value , Date header value)

**step 2** : X-IPS-Auth header value = HMAC-SHA1 (API KEY, signature\_string)

The HMAC-SHA1 algorithm is explained in detail

here <http://en.wikipedia.org/wiki/HMAC#Implementation>

## Possible authentication errors

- AuthHeaderMissing - this means that the X-IPS-Auth header was not detected in your request
- AuthTimeDifference - this means that the time difference between the request time and our server time is greater than 20 seconds. Please read the important note below
- ClientHeaderMissing - this means that the X-IPS-Client header was not detected in your request
- DateHeaderMissing - this means that the X-IPS-Date header was not detected in your request
- InvalidClient - the supplied API USER is not registered with our system
- InvalidSignature - the supplied signature in X-IPS-Auth header is wrong. Possible reasons are: the *signature\_string* was not properly

computed, the HMAC algorithm was not properly calculated, the API KEY is wrong or not valid

**Important:** because the signature string relies on a timestamp it is very important to have your server/system time synchronized with a NTP server. The web service allows only a 20 seconds difference between request and server time.

Example for getting all images:

- request : images
- signature\_string : GETimages/test-accountTue, 14 Oct 2008 09:25:06 GMT

## 2. API Reference

The following terminology will be used along the documentation:

- Sample Request - indicates a sample HTTP request sent to web service
- Sample Response - indicates a sample HTTP response returned by the web service
- Exception - the possible errors that the specific method can return

Responses are shown here in XML format but the web service can also return data in JSON.

### **Important:**

- the header values in request/response samples do not contain valid data, this means that you cannot rely on X-IPS-Auth header to contain a correct/valid signature
- the response body is sometimes truncated when it contains repetitive structures

### **Change log**

- added pagination/searching and sorting for Images Section

## **Authenticate**

### **Authenticate**

#### **Sample Request:**

```
HEAD /authenticate/ HTTP/1.1
```

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

### Sample Response:

HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795  
Connection: close  
Content-Type: text/xml

## Images

### Get all images

Will return a list with source images and the format available for each one of them.

### Sample Request:

GET /images/ HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

### Sample Response:

HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795  
Connection: close  
Content-Type: text/xml

```
<images>
  <image>
    <item>4c3853c264a0ae693af9e43673c86593</item>
    <name>test-image</name>
  <tags>
    <tag>test</tag>
  </tags>
```

```

    <type>png</type>
    <formats>
      <format>cbd132e41dc0a41dc137da86bd276ed8</format>
      <format>907f675db983529f10e02c1cc883e617</format>
    </formats>
    <rules>
      <rule>

cbd132e41dc0a41dc137da86bd276ed8|4c3853c264a0ae693af9e43673c86593
      </rule>
      <rule>

907f675db983529f10e02c1cc883e617|3649f343d68ad58aaa6679823aa4c2fe
      </rule>
    </rules>
    <width>360</width>
    <height>480</height>
    <size>877482</size>
    <thumbnail>
      http://ips.static.videopublishing.com/zitec/test_image-
thumbnail.png
    </thumbnail>
    <preview>
      http://ips.static.videopublishing.com/zitec/
test_image-preview.png
    </preview>
    <source>
      http://ipws-sources.s3.amazonaws.com/zitec/test_image.jpeg
    </source>
    <added>2009-05-19T07:27:01+00:00</added>
    <number_of_pages>2</number_of_pages>
  </image>
  .....
</images>

```

## Get the image info

### Sample Request:

```
GET /images/3649f343d68ad58aaa6679823aa4c2fe HTTP/1.1
```

```

Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

```

### Sample Response:

HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795  
Connection: close  
Content-Type: text/xml

```
<image>
  <item>4c3853c264a0ae693af9e43673c86593</item>
  <name>test-image</name>
  <tags>
    <tag>test</tag>
  </tags>
  <type>png</type>
  <raw_formats>
    <raw_format>57120d69aa2079f4621bd06adbe9b836</raw_format>
    <raw_format>e209f4a4d1186d973f67dd2823879a7d</raw_format>
  </raw_formats>
  <formats>
    <format>
      <item>4c3853c264a0ae693af9e43673c86593</item>
      <image>385e23a1e01d206d0cfc872836410932</image>
      <rule>698b62cd1d6e5cbf9cce4c9d7d026181</rule>
      <name>test-image</name>
      <width>320</width>
      <height>480</height>
      <type>jpg</type>
      <state>3</state>
      <size>877482</size>
      <link>
        http://ips.static.videopublishing.com/zitec/test_image-
small_format.jpg
      </link>
      <added>2009-05-19T07:27:01+00:00</added>
    </format>
    ...
  </formats>
  <rules>
    <rule>
      cbd132e41dc0a41dc137da86bd276ed8|4c3853c264a0ae693af9e43673c86593
    </rule>
    <rule>
      907f675db983529f10e02c1cc883e617|3649f343d68ad58aaa6679823aa4c2fe
    </rule>
```

```
</rules>
<width>360</width>
<height>480</height>
<size>877482</size>
<thumbnail>
  http://ips.static.videopublishing.com/zitec/test_image-thumbnail.png
</thumbnail>
<preview>
  http://ips.static.videopublishing.com/zitec/test_image-preview.png
</preview>
<source>
  http://ipws-sources.s3.amazonaws.com/zitec/test_image.jpeg
</source>
<added>2009-05-19T07:27:01+00:00</added>
</image>
```

## Get all formats for an image

### Sample Request:

```
GET /images/3649f343d68ad58aaa6679823aa4c2fe/formats/ HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

### Sample Response:

```
HTTP/1.1 200 OK
```

```
Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
Connection: close
Content-Type: text/xml
```

```
<formats>
  <format>
    <item>4c3853c264a0ae693af9e43673c86593</item>
    <image>385e23a1e01d206d0cfc872836410932</image>
    <rule>698b62cd1d6e5cbf9cce4c9d7d026181</rule>
```

```
<name>test-image</name>
<width>320</width>
<height>480</height>
<type>jpg</type>
<state>3</state>
<size>877482</size>
<link>
  http://ips.static.videopublishing.com/zitec/test_image-
small_format.jpg
</link>
<added>2009-05-19T07:27:01+00:00</added>
</format>
...
</formats>
```

## Get a format's details

### Notes:

- the state attribute can have the following values:
  - 0 - Processing Error
  - 1 - Processing Queue (the format is waiting to be processed)
  - 2 - Processing (the format is currently being processed)
  - 3 - Ready (the format has been processed and is ready to be used)

### Sample Request:

```
GET /images/3649f343d68ad58aaa6679823aa4c2fe/formats/
73b9c82cec3319ad564e1b330691fd9d HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

### Sample Response:

```
HTTP/1.1 200 OK
```

```
Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
```

Connection: close  
Content-Type: text/xml

```
<format>
  <item>73b9c82cec3319ad564e1b330691fd9d</item>
  <image>385e23a1e01d206d0cfc872836410932</image>
  <rule>698b62cd1d6e5cbf9cce4c9d7d026181</rule>
  <name>test-image</name>
  <width>320</width>
  <height>480</height>
  <type>jpg</type>
  <state>3</state>
  <size>877482</size>
  <link>
    http://ips.static.videopublishing.com/zitec/test_image-
medium_format.jpg
  </link>
  <added>2009-05-19T07:27:01+00:00</added>
</format>
```

## Upload a new image

### Notes:

- the name of the images can only contain alphanumeric characters and '\_' (underscore)
- any other characters will automatically be converted to '\_'
- the name of the images must be unique; if an image with the same name already exists, the service will create an unique name by appending a number at the end
- ex: new\_image.png will become new\_image-1.png, then new\_image-2.png etc.
- this also applies when renaming an image

### Sample Request:

```
PUT /images/new_image.png HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

```
Expect: 100-continue
100 Continue
```

the image content here

### Sample Response:

HTTP/1.1 201 Created

Date: Thu, 17 Jul 2008 14:52:55 GMT

Server: ImageProcessing

Content-Length: 795

Connection: close

Content-Type: text/xml

<item>75e998c8f45bacea6b8418d9c1bc4623</item>

## Create a new image format

### Notes:

- type can be either 'plan' or 'rule'; in consequence item will be the ID of either a plan or a rule

### Sample Request:

```
POST /images/75e998c8f45bacea6b8418d9c1bc4623/formats HTTP/1.1
```

Host: ips.videopublishing.com

Date: Thu, 17 Jul 2008 14:52:54 GMT

X-IPS-Client: test-account

X-IPS-Accept: xml

X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

type=plan&item=b9e21a3a1c831a0adb4dd79e82d77f1f

### Sample Response:

HTTP/1.1 201

Date: Thu, 17 Jul 2008 14:52:55 GMT

Server: VideoPublishing

Connection: close

## Update the image info

### Notes:

- changing the image name will cause the image to be renamed on the disc (as well as all associated formats)
- when attempting to rename an image, if the preview and thumbnail haven't yet been created, or if a format is currently being processed the renaming will be cancelled and an 409 error will be sent (if tags have been provided they will still be saved)

### Sample Request:

POST /images/75e998c8f45bacea6b8418d9c1bc4623 HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833  
name=image\_name&tags[]=test&tags[]=new

### Sample Response:

HTTP/1.1 204 NO CONTENT

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Connection: close

## Delete an image

### Notes:

- when an image is deleted all associated formats will also be deleted (and removed from any gallery that might contain them)

### Sample Request:

DELETE /images/55ecafc74e562ab83c82efabf7f72441 HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

### Sample Response:

HTTP/1.1 204 No Content

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: VideoPublishing  
Connection: close

## Delete an image format

### Note:

- delete image formats will be removed from any gallery that might contain them

### Sample Request:

DELETE /images/55ecafc74e562ab83c82efabf7f72441/formats/  
e4b765f549fc368f82fcfe737cf8818b HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

### Sample Response:

HTTP/1.1 204 No Content

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: VideoPublishing  
Connection: close

## Galleries

### Get all galleries

#### Sample Request:

GET /galleries/ HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

#### Sample Response:

HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795  
Connection: close  
Content-Type: text/xml

```
<galleries>
  <gallerie>
    <item>52c053b0ce97355f0cfd81d190b6a140</item>
    <name>My first image gallery</name>
    <tags>
      <tag>test</tag>
      <tag>first</tag>
```

```
        </tags>
        <cover>http://ips.videopublishing.com/zitec/testimage-
thumbnail.png</cover>
        <added>2009-05-19T07:27:01+00:00</added>
        <number_of_pages>3</number_of_pages>
    </gallerie>
    ...
</galleries>
```

## Get information about a gallery

### Sample Request:

```
GET /galleries/00b3c0c5ba030dc271458228df008499 HTTP/1.1

Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

### Sample Response:

```
HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
Connection: close
Content-Type: text/xml

<gallery>
  <item>52c053b0ce97355f0cfd81d190b6a140</item>
  <name>My first gallery</name>
  <tags>
    <tag>test</tag>
    <tag>first</tag>
  </tags>
  <cover>http://ips.videopublishing.com/zitec/image-1_360x480.png</cover>
  <formats>
    <format>8e68ef2af67e06e4846a45db781295ac</format>
    <format>2b3930bcefb4a82cd1a4fd6ceae94034</format>
    <format>e88185dded7ac9a451bc6b03995bea55</format>
  </formats>
  <added>2009-05-19T07:27:01+00:00</added>
</gallery>
```

## Get all the images of a gallery

## Sample Request:

```
GET /galleries/52c053b0ce97355f0cfd81d190b6a140/formats HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

## Sample Response:

```
HTTP/1.1 200 OK
```

```
Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
Connection: close
Content-Type: text/xml
```

```
<formats>
  <format>
    <item>4c3853c264a0ae693af9e43673c86593</item>
    <image>385e23a1e01d206d0cfc872836410932</image>
    <name>test-image</name>
    <width>320</width>
    <height>480</height>
    <type>jpg</type>
    <state>3</state>
    <size>877482</size>
    <link>
      http://ips.static.videopublishing.com/zitec/test_image-
medium_format.jpg
    </link>
    <thumbnail>
      http://ips.static.videopublishing.com/zitec/test_image-
thumbnail.png
    </thumbnail>
  </format>
  ...
</formats>
```

## Create a new gallery

### Notes:

- if tags are provided, the images with those tags will automatically be added to the gallery
- if tags are provided it is mandatory to also provide a rule ID
- if both tags and a list of images are provided, the list of images will be ignored
- if no tags are provided it is mandatory to provide at least one image

### Sample Request:

POST /galleries/ HTTP/1.1

Host: ips.videopublishing.com  
 Date: Thu, 17 Jul 2008 14:52:54 GMT  
 X-IPS-Client: test-account  
 X-IPS-Accept: xml  
 X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

name=gallery+1&rule=ead9e917812c4d740f28f8bf667aea7e&tags []=test&tags []=new  
 OR  
 name=my+first+gallery&formats []=ead9e917812c4d740f28f8bf667aea7e

### Sample Response:

HTTP/1.1 100 Continue  
 HTTP/1.1 201 Created  
  
 Date: Thu, 17 Jul 2008 14:52:55 GMT  
 Server: ImageProcessing  
 Content-Length: 795  
 Connection: close  
 Content-Type: text/xml

<item>81c0d3bb869afc9dca803fcba1f35d25</item>

## Edit the gallery info

### Notes:

- editing the tags will change the content of the gallery - it will only contain the images with the specified tags;
- galleries where tags are provided will be automatically populated with images; manually adding / removing images will not be possible;
- only galleries that don't have tags can be populated manually
- if a list of images is provided for a manual gallery, the existing images will be replaced with the new ones

### Sample Request:

POST /galleries/81c0d3bb869afc9dca803fcba1f35d25/ HTTP/1.1

Host: ips.videopublishing.com  
 Date: Thu, 17 Jul 2008 14:52:54 GMT  
 X-IPS-Client: test-account  
 X-IPS-Accept: xml

X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833  
name=updated+gallery\_+name&tags[]=update  
OR  
name=updated+manual+gallery&formats[]=b78dc0b802044e559a2767546b0a9eeb

### **Sample Response:**

HTTP/1.1 204 NO CONTENT

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Connection: close

## **Add formats to a gallery**

### **Notes:**

- the provided formats will be added to the existing list;
- if a format is already part of the gallery, it will not be added again;
- optionally a new gallery name can be provided, this will update the gallery name to the new one;

### **Sample Request:**

POST /galleries/81c0d3bb869afc9dca803fcba1f35d25/add HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

name=updated+manual+gallery&formats[]=b78dc0b802044e559a2767546b0a9eeb

### **Sample Response:**

HTTP/1.1 204 NO CONTENT

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Connection: close

## **Remove formats from a gallery**

### **Sample Request:**

POST /galleries/81c0d3bb869afc9dca803fcba1f35d25/remove HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT

X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

formats[]=b78dc0b802044e559a2767546b0a9eeb

**Sample Response:**

HTTP/1.1 204 NO CONTENT

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Connection: close

## Delete a gallery

**Notes:**

- when a gallery is deleted the images it contains will not be affected; they will be kept and can be used in other galleries

**Sample Request:**

DELETE /galleries/81c0d3bb869afc9dca803fcba1f35d25 HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

**Sample Response:**

HTTP/1.1 204 No Content

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Connection: close

## Processing plans

### Get all plans

**Sample Request:**

GET /plans/ HTTP/1.1

Host: ips.videopublishing.com

Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

### Sample Response:

HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795  
Connection: close  
Content-Type: text/xml

```
<plans>
  <plan>
    <item>b9e21a3a1c831a0adb4dd79e82d77f1f</item>
    <name>Processing plan 1</name>
    <rules>
      <rule>ead9e917812c4d740f28f8bf667aea7e</rule>
      <rule>659958caeb8f280832d710c044e58c46</rule>
    </rules>
    <added>2009-05-19T07:27:01+00:00</added>
    <number_of_pages>2</number_of_pages>
  </plan>
  ...
</plans>
```

## Get information about a plan

### Sample Request:

GET /plans/b9e21a3a1c831a0adb4dd79e82d77f1f/ HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

### Sample Response:

HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795

Connection: close  
Content-Type: text/xml

```
<plan>
  <item>b9e21a3a1c831a0adb4dd79e82d77f1f</end>
  <name>Processing plan 1</image>
  <rules>
    <rule>ead9e917812c4d740f28f8bf667aea7e</rule>
    <rule>659958caeb8f280832d710c044e58c46</rule>
  </rules>
  <added>2009-05-19T07:27:01+00:00</added>
</plan>
```

## Get all the rules in a plan

### Sample Request:

```
GET /plans/b9e21a3a1c831a0adb4dd79e82d77f1f/rules HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

### Sample Response:

```
HTTP/1.1 200 OK
```

```
Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
Connection: close
Content-Type: text/xml
```

```
<rules>
  <rule>
    <item>ead9e917812c4d740f28f8bf667aea7e</item>
    <name>Processing rule 1</name>
    <width>320</width>
    <height>480</height>
    <type>jpg</type>
  </rule>
  ...
</rules>
```

## Create a processing plan

### Sample Request:

POST /plans/ HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

name=Processing+plan+1&rules[]=ead9e917812c4d740f28f8bf667aea7&rules[]=659958caeb8f280832d

### Sample Response :

HTTP/1.1 100 Continue  
HTTP/1.1 201 Created

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795  
Connection: close  
Content-Type: text/xml

<item>ead9e917812c4d740f28f8bf667aea7e</item>

## Edit the plan info

### Notes:

- images already processed with this plan will not be affected

### Sample Request:

POST /plans/ead9e917812c4d740f28f8bf667aea7e HTTP/1.1

Host: ips.videopublishing.com  
Date: Thu, 17 Jul 2008 14:52:54 GMT  
X-IPS-Client: test-account  
X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

name=Processing+plan+1&rules[]=ead9e917812c4d740f28f8bf667aea7&rules[]=659958caeb8f280832d

### Sample Response:

HTTP/1.1 204 NO CONTENT

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Connection: close

## Delete a processing plan

### Notes:

- images already processed with this plan will not be affected

### Sample Request:

```
DELETE /plans/ead9e917812c4d740f28f8bf667aea7e HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

### Sample Response :

```
HTTP/1.1 204 No Content

Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Connection: close
```

## Processing rules

### Get all processing rules

### Sample Request:

```
GET /rules/ HTTP/1.1

Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

### Sample Response :

```
HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
Connection: close
Content-Type: text/xml
```

```
<rules>
  <rule>
```

```
    <item>ead9e917812c4d740f28f8bf667aea7e</item>
    <name>Processing rule 1</name>
    <width>320</width>
    <height>480</height>
    <type>jpg</type>
    <auto_fit>1</auto_fit>
    <added>2009-05-19T07:27:01+00:00</added>
  </rule>
  ...
</rules>
```

## Get information about a processing rule

### Sample Request:

```
GET /rules/ead9e917812c4d740f28f8bf667aea7e HTTP/1.1

Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

### Sample Response:

```
HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
Connection: close
Content-Type: text/xml
```

```
<rule>
  <item>ead9e917812c4d740f28f8bf667aea7e</item>
  <name>Processing rule 1</name>
  <width>320</width>
  <height>480</height>
  <type>jpg</type>
  <auto_fit>0</auto_fit>
  <added>2009-05-19T07:27:01+00:00</added>
</rule>
```

## Create a processing rule

### Notes:

- in order to resize an image and keep its aspect ratio, one of the dimensions can be 0

- ex: if the width is 480, the height is 0 and the aspect ratio of the original image is 4:3, the width of the image will be 480 pixels and the height will automatically be set to 360 pixels
- the name of the rule can only contain alphanumeric characters and '\_' (underscore) and it has to be unique
- if auto\_fit is 1, the image will be resized so it fits within the given dimensions and keeps the aspect ratio
- ex: if the width and height provided for the rule are 480 and 380, the aspect ratio of the original image is 4:3 and auto\_fit is 1 than the width of the formatted image will be 480 but the height will be automatically set to 360 pixels
- compression is an optional attribute and will only be considered if the type is jpeg; the default compression value is 80
- the maximum value for width and height is 65,500 pixels

### Sample Request:

```
POST /rules HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
X-IPS-Accept: xml
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833
```

```
name=Processing_rule_1&width=320&height=480&type=jpg&auto_fit=1&compression=60
```

### Sample Response:

```
HTTP/1.1 100 Continue
HTTP/1.1 201 Created
```

```
Date: Thu, 17 Jul 2008 14:52:55 GMT
Server: ImageProcessing
Content-Length: 795
Connection: close
Content-Type: text/xml
```

```
<item>ead9e917812c4d740f28f8bf667aea7e</item>
```

## Delete a processing rule

### Notes:

- images already processed with this rule will not be affected
- when a rule is deleted it will be removed from any processing plans that might contain it

### Sample Request:

```
DELETE /rules/ead9e917812c4d740f28f8bf667aea7e HTTP/1.1
```

```
Host: ips.videopublishing.com
Date: Thu, 17 Jul 2008 14:52:54 GMT
X-IPS-Client: test-account
```

X-IPS-Accept: xml  
X-IPS-Auth: 90a6d325e982f764f86a7e248edf6a660d4ee833

### Sample Response :

HTTP/1.1 204 No Content

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Connection: close

## 3. Pagination, sorting and filtering

### Pagination

#### Sample request:

GET /rules?filters[page]=2

#### Expected parameters:

- filters[page] - contains the number of the requested page

#### Sample Response :

HTTP/1.1 200 OK

Date: Thu, 17 Jul 2008 14:52:55 GMT  
Server: ImageProcessing  
Content-Length: 795  
Connection: close  
Content-Type: text/xml

```
<rules>
  <rule>
    <item>ead9e917812c4d740f28f8bf667aea7e</item>
    <name>Processing rule 1</name>
    <width>320</width>
    <height>480</height>
    <type>jpg</type>
    <auto_fit>1</auto_fit>
    <added>2009-05-19T07:27:01+00:00</added>
    <number_of_pages>2</number_of_pages>
  </rule>
  ...
</rules>
```

## Sorting

### Sample request:

GET /images?filters[order\_by]=title&filters[order\_direction]=desc

### Expected parameters:

- filters[order\_by]
  - mandatory
  - the name of the field by which to sort
- filters[order\_direction]
  - optional
  - the direction in which to sort (ascending or descending)
  - can be *asc* or *desc*(default to *desc*)

## Filtering

### Sample request:

GET /images?filters[name]=test\_image&filters[added]=2009-08-26

### Expected parameters:

- an array of filters where the key is the filter name and the value is the filter value

## 4. Exceptions

Error Code	Error Message	HTTP Status Code
AuthHeaderMissing	Authentication failed because the authorization header is missing	400
AuthTimeDifference	Authentication failed because of an authorization time difference	400
ClientHeaderMissing	Authentication failed because the client identifier is missing	400
DateHeaderMissing	Authentication failed because the date header is missing	400
DuplicateItem	An item with the same attributes already exists	400
DuplicateName	An item with the same name already exists	400
InsufficientData	The data you provided is insufficient for performing the requested operation	400

InvalidClient	Authentication failed because the client identifier is not valid	400
InvalidFile	No file was provided for upload	404
InvalidSignature	Authentication failed because the provided signature is not valid	400
InternalServerError	The service encountered an internal error. Please try again in a few moments	500
InvalidParameter	Invalid parameter specified (" + value + ")	404
InvalidResource	Invalid resource specified	400
NoSuchItem	The item you have requested does not exist	404
RenameConflict	The file could not be renamed at this time because it is being processed	409