

Digital Bees

# REST-API Service Documentation

VERSION 1.0



## SOMMARIO

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## 1 INTRODUCTION

Digital Bees API (**DBAPI** from now on) is a restricted REST service developed to serve Digital Bees (**DB** from now on) **artists** and **video** information to its partners.

The service is based on server side connection between partners server and DBAPI servers and between clients and DBAPI servers.

## 2 DOMAINS AND PLATFORMS

In order to guarantee the best service to all our customers, we offers 2 separate environments for our API: Stage and Production.

Digital Bees provide to every customer stage and production credentials. **The credentials of stage and production are different.**

Customers can use the staging environment for testing, while they may use the production environment for their own production environment.

**Stage and Production Digital Bees API environments have different domains, so both calls server-server and client-server must respect these domains.**

Stage Environment: **stage.api.digitalbees.it**

Production Environment: **api.digitalbees.it**



### 3 VIDEO API

#### 3.1 SERVER-SERVER REQUESTS

Server-Server request to fetch all the available data from DB video repository.

The requests use the HTTP communication protocol on default port 80.

##### 3.1.1 AUTHENTICATION

In order to access this service any partner need to own an authentication pair ("apikey", "apisecret"), those keys will be manually provided you by DigitalBees.

Those parameters have to be appended on every request as query string:

```
&apikey=< value >&apisecret=< value >
```

##### 3.1.1 LIST REQUESTS

Response to an index request is an array listing the matching objects.

|                       |  |
|-----------------------|--|
| List of <b>Author</b> | <b><a href="http://api.digitalbees.it/list/author">http://api.digitalbees.it/list/author</a></b> |
| List of <b>Videos</b> | <b><a href="http://api.digitalbees.it/list/video">http://api.digitalbees.it/list/video</a></b>   |

**GET**      **/list/author**

**HTTP**  
**200**



/list/author?page=1&perPage=100&sortProperty=creationDate&sortDirection=DESC&apikey=<value>&apisecret=<value>

|                      |          |                |  |      |
|----------------------|----------|----------------|--|------|
| <b>perPage</b>       | Optional | <b>integer</b> | perPage is the number of items returned. Default and max value is 100  | 1    |
| <b>page</b>          | Optional | <b>integer</b> | is the page number. The first page is 1. <b>Default page value is 1</b>  | 100  |
| <b>sortProperty</b>  | Optional | <b>enum</b>    | sortProperty accept a fields as property for sorting. You can sort by one of these fields : <ul style="list-style-type: none"> <li>• id</li> <li>• title</li> <li>• creationDate</li> <li>• latModifiedDate</li> <li>• publishedDate</li> </ul> <b>Default field value is id</b> | id   |
| <b>sortDirection</b> | Optional | <b>enum</b>    | use sortDirection to obtain ascending (ASC) or descending (DSC) order. Default value is DESC   | DESC |

**GET** **/list/video** **HTTP 200**

/list/video?page=1&perPage=100&sortProperty=creationDate&sortDirection=DESC&apikey=<value>&apisecret=<value>

|                     |          |                |   |     |
|---------------------|----------|----------------|---|-----|
| <b>perPage</b>      | Optional | <b>integer</b> | perPage is the number of items returned. Default and max value is 100   | 1   |
| <b>page</b>         | Optional | <b>integer</b> | is the page number. The first page is 1. <b>Default page value is 1</b> | 100 |
| <b>sortProperty</b> | Optional | <b>enum</b>    | sortProperty accept a fields as property for sorting.                   | id  |



You can sort by one of these fields :

- id
- title
- creationDate
- latModifiedDate
- publishedDate

**Default field value is id**

---

|                      |          |             |   |      |
|----------------------|----------|-------------|---|------|
| <b>sortDirection</b> | Optional | <b>enum</b> | use sortDirection to obtain ascending (ASC) or descending (DSC) order.<br>Default value is DESC | DESC |
|----------------------|----------|-------------|---|------|



### 3.1.2 SEARCH REQUESTS

Response to an index request is an array listing the matching objects.

|               |   |
|---------------|---|
| Search Video  | <a href="http://api.digitalbees.it/search/video">http://api.digitalbees.it/search/video</a>   |
| Search Author | <a href="http://api.digitalbees.it/search/author">http://api.digitalbees.it/search/author</a> |

| GET  | /search/video | HTTP 200   |
|--|---------------|--|
| <a href="#">/search/video?q=@name%20call%me%maybe&amp;apikey=&lt;value&gt;&amp;apisecret=&lt;value&gt;</a> |               |  |
| <b>q</b>   | Required      | <b>string</b> @<field><space><string to search><br>allowed fields: <ul style="list-style-type: none"> <li>• name</li> <li>• title</li> <li>• metatag</li> </ul> eg:<br><a href="http://api.digitalbees.it/search/video?q=@metatag%20vasco%20rossi&amp;apikey=&lt;value&gt;&amp;apisecret=&lt;value&gt;">http://api.digitalbees.it/search/video?q=@metatag%20vasco%20rossi&amp;apikey=&lt;value&gt;&amp;apisecret=&lt;value&gt;</a> |
| <b>perPage</b>   | Optional      | <b>integer</b> perPage is the number of items returned. Default and max value is 100   |
| <b>page</b>  | Optional      | <b>integer</b> is the page number. The first page is 1. <b>Default page value is 1</b>   |
| <b>sortProperty</b>  | Optional      | <b>enum</b> sortProperty accept a fields as property for sorting.<br>You can sort by one of these fields : <ul style="list-style-type: none"> <li>• id</li> <li>• title</li> <li>• creationDate</li> <li>• latModifiedDate</li> </ul>  |



- publishedDate
- Default field value is id**

|                      |          |             |  |      |
|----------------------|----------|-------------|--|------|
| <b>sortDirection</b> | Optional | <b>enum</b> | use sortDirection to obtain ascending (ASC) or descending (DESC) order.<br>Default value is DESC | DESC |
|----------------------|----------|-------------|--|------|

|            |                       |                 |
|------------|-----------------------|-----------------|
| <b>GET</b> | <b>/search/author</b> | <b>HTTP 200</b> |
|------------|-----------------------|-----------------|

/search/author?q=@name%20carl%20rae%20jepson&apikey=<value>&apisecret=<value>

|          |          |               |  |  |
|----------|----------|---------------|--|--|
| <b>q</b> | Required | <b>string</b> | @<field><space><string to search><br>allowed fields: <ul style="list-style-type: none"> <li>• name</li> </ul> eg:<br>http://api.digitalbees.it/search/video?q=@name%20vasco%20rossi<br>&apikey=<value><br>&apisecret=<value> |  |
|----------|----------|---------------|--|--|

|                |          |                |   |   |
|----------------|----------|----------------|---|---|
| <b>perPage</b> | Optional | <b>integer</b> | perPage is the number of items returned. Default and max value is 100 | 1 |
|----------------|----------|----------------|---|---|

|             |          |                |   |     |
|-------------|----------|----------------|---|-----|
| <b>page</b> | Optional | <b>integer</b> | is the page number. The first page is 1. <b>Default page value is 1</b> | 100 |
|-------------|----------|----------------|---|-----|

|                     |          |             |   |    |
|---------------------|----------|-------------|---|----|
| <b>sortProperty</b> | Optional | <b>enum</b> | sortProperty accept a fields as property for sorting.<br>You can sort by one of these fields : <ul style="list-style-type: none"> <li>• id</li> <li>• name</li> <li>• creationDate</li> <li>• lastModifiedDate</li> <li>• publishedDate</li> </ul> <b>Default field value is id</b> | id |
|---------------------|----------|-------------|---|----|





|                      |          |             |  |      |
|----------------------|----------|-------------|--|------|
| <b>sortDirection</b> | Optional | <b>enum</b> | use sortDirection to obtain ascending (ASC) or descending (DESC) order.<br>Default value is DESC | DESC |
|----------------------|----------|-------------|--|------|



## 3.1.3 VIEWS REQUESTS

|                              |   |
|------------------------------|---|
| Match <b>Video by Author</b> | <a href="http://api.digitalbees.it/view/video-by-author?id=[int]">http://api.digitalbees.it/view/video-by-author?id=[int]</a>   |
| Match <b>Video from date</b> | <a href="http://api.digitalbees.it/view/video-from-date?from=53463453&amp;to=90045432523">http://api.digitalbees.it/view/video-from-date?from=53463453&amp;to=90045432523</a> |

| GET  | /view/video-by-author?id=n |         |  | HTTP 200 |
|--|----------------------------|---------|--|----------|
| /view/video-by-author?id=1567&apikey=<value>&apisecret=<value> |                            |         |  |          |
| id   | Required                   | integer |  | 1564     |
| perPage  | Optional                   | integer | perPage is the number of items returned. Default and max value is 100  | 100      |
| page   | Optional                   | integer | is the page number. The first page is 1.<br>Default page value is 1  | 1        |
| sortProperty   | Optional                   | enum    | sortProperty accept a fields as property for sorting.<br>You can sort by one of these fields : <ul style="list-style-type: none"><li>id</li><li>title</li><li>creationDate</li><li>latModifiedDate</li><li>publishedDate</li></ul> Default field value is id | id       |
| sortDirection  | Optional                   | enum    | use sortDirection to obtain ascending (ASC) or descending (DSC) order.<br>Default value is DESC  | DESC     |

|   |  |          |
|---|--|----------|
| GET   | /view/video-by-date?from<start-timecode>to<end-timecode> | HTTP 200 |
| /view/video-by-date?from<timecode>to<timecode>&apikey=<value>&apisecret=<value> |  |          |



|                       |          |                |  |            |
|-----------------------|----------|----------------|--|------------|
| <b>start-timecode</b> | Required | <b>integer</b> | <p>It indicates the start date for the video search data range.</p> <p>The correct response (HTTP code 200) return all videos created in the specified date range (from start to end).</p> <p><u>The timecode format is Unix timestamp GMT.</u></p> <p><u>The start timecode value is required.</u></p> <p>If you need further information about unix timestamp, please check <a href="http://www.unixtimestamp.com">http://www.unixtimestamp.com</a></p>  | 1380603600 |
| <b>end-timecode</b>   | Optional | <b>integer</b> | <p>It indicates the end date for the video search data range.</p> <p>The correct response (HTTP code 200) return all videos created in the specified date range (from start to end).</p> <p><u>The timecode format is Unix timestamp GMT.</u></p> <p>The end timecode is optional, if omitted the response return all video created from start timecode to the current timecode.</p> <p>If you need further information about unix timestamp, please check <a href="http://www.unixtimestamp.com">http://www.unixtimestamp.com</a></p> | 1382371200 |
| <b>perPage</b>        | Optional | <b>integer</b> | perPage is the number of items returned. Default and max value is 100  | 100        |
| <b>page</b>           | Optional | <b>integer</b> | is the page number. The first page is 1. <b>Default page value is 1</b>  | 1          |
| <b>sortProperty</b>   | Optional | <b>enum</b>    | <p>sortProperty accept a fields as property for sorting.</p> <p>You can sort by one of these fields :</p> <ul style="list-style-type: none"> <li>• id</li> <li>• title</li> <li>• creationDate</li> <li>• latModifiedDate</li> </ul>   | id         |



- publishedDate

**Default field value is id**

---

|                      |          |             |  |      |
|----------------------|----------|-------------|--|------|
| <b>sortDirection</b> | Optional | <b>enum</b> | use sortDirection to obtain ascending (ASC) or descending (DESC) order.<br>Default value is DESC | DESC |
|----------------------|----------|-------------|--|------|



## 3.1.1.1 MATCH REQUESTS

|                           |   |
|---------------------------|---|
| Match <b>Video</b> by id  | <a href="http://api.digitalbees.it/get/video/id=[int]">http://api.digitalbees.it/get/video/id=[int]</a>   |
| Match <b>Author</b> by id | <a href="http://api.digitalbees.it/get/author/id=[int]">http://api.digitalbees.it/get/author/id=[int]</a> |

| GET   | /get/video/<id> | HTTP 200   |
|---|-----------------|--|
| <a href="#">get/video/&lt;id&gt;?apikey=&lt;value&gt;&amp;apisecret=&lt;value&gt;</a> |                 |  |
| <b>id</b>   | Required        | <b>Number</b> id must be a valid video id 400100 |

  

| GET  | /get/author/<id> | HTTP 200                                       |
|--|------------------|--|
| <a href="#">get/author/&lt;id&gt;?apikey=&lt;value&gt;&amp;apisecret=&lt;value&gt;</a> |                  |  |
| <b>id</b>  | Required         | <b>Number</b> id must be a valid author id 203 |



### 3.1.1 ERRORS CODE

| ERROR CODE | ERROR MESSAGE         |
|------------|-----------------------|
| 400        | Bad request           |
| 403        | Forbidden             |
| 404        | Not found             |
| 500        | Internal Server Error |
| 502        | Bad Gateway           |



### 3.2 CLIENT-SERVER REQUESTS

In order to show a video player inside a web page you need to call our js library (DigitalBees SDK) from your web page (client), so this is client-server request to the digitalbees api system.

When invoked, the SDK application read at bootstrap the first element of "\_srapiq" array that must be set to "init", as showed below:

```
_srapiq.push(['init', apiKEY, callback]);
```

This method initializes the sdk reading the user configuration on the digitalbees platform (server-side), this means that the apiKEY value must correspond to an existing USER on digitalbees.

The 'init' method replaces the array "\_srapiq" with an object "ExternalInterface" that exposes the public methods of the SDK that you can invoke using the "push" method

example:

```
_srapiq.push ( [ 'setOption' , 'autoStart' , true ] );
```

Alternatively, you can directly retrieve the object ExternalInterface to invoke methods in the traditional way.

Example:

```
_srapiq.getApi ().searchVideo ('O Vient' , 1, function(data){console.log(data)});
```



Below you can find the digitalbees client-side code example to include in your webpage:

```
<script type="text/javascript">
  var _srapiq = _srapiq || [];
  _srapiq.push(['init', apiKey, <your_callback_method>]); //
Required
  _srapiq.push(['setOption', 'width', 600]); // Optional
  _srapiq.push(['setOption', 'height', 400]); // Optional
  _srapiq.push(['setOption', 'autoStart', true]); // Optional
  _srapiq.push(['setOption', 'advUrl', advURL]); // Optional
  _srapiq.push(['embedVideo', 'videoContainer', '1']); // Required

  (function() {
    var sr = document.createElement('script');
    sr.type = 'text/javascript'; sr.async = true;
    sr.src = '//sdk.digitalbees.it/jssdk-latest.js';
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(sr, s);
  }) ();
</script>
```

the example above contains comments showing id the method is optional or mandatory.





### 3.2.1 PUBLIC METHODS

**IMPORTANT:** Init method must be the first call to the SDK.

| METHOD  | PROPERTY        | INPUT VALUE | DESCRIPTION   |
|---|-----------------|-------------|---|
| <code>init(apiKEY, &lt;your callback&gt;);</code> | apiKEY          | string      | your apikey   |
|   | <your callback> |             | you can specify your callback function to have a notification when the the player template is ready                                     |
| <code>setOption(optKey, optValue);</code>         |                 |             | use this method to set the player options as height, width, autostart, advUrl<br>example:<br>_srapiq.push(['setOption', 'width', 600]); |
|   | height          | integer     |   |
|   | width           | integer     |   |



|  |                            |         |   |
|--|----------------------------|---------|---|
|  | <code>autoStart</code>     | boolean |   |
|  | <code>advUrl</code>        | string  |   |
| <code>getVideoDuration();</code>                                 |                            |         | return the video duration of the last video player embedded in web page   |
| <code>embedVideo(parentElement, videoAssetId);</code>            |                            |         | enables the Video Player in web page. If your SRAPI account is enabled from Digital Bees staff to manage Video, you must use this method to enableVideos in your web page |
|  | <code>parentElement</code> | string  | parentElement is the id or the instance of the dom element where you want append the video player   |
|  | <code>videoAssetId</code>  | integer | a valid video id  |
| <code>loadVideoById(videoAssetId, &lt;your-callback&gt;);</code> |                            |         | use this method to change the video asset inside the last player embedded in web page   |
|  | <code>videoAssetId</code>  | integer | set the width for the video player in your web page   |



|  |         |  |
|--|---------|--|
| <code>&lt;your-callback&gt;</code>                                 |         | you can specify your callback function to have a notification when the the player template is ready                                    |
| <code>playVideo() ;</code>   |         | use this method to set play the last player embedded in web page   |
| <code>stopVideo() ;</code>   |         | use this method to set stop the last player embedded in web page   |
| <code>pauseVideo() ;</code>  |         | use this method to set pause the last player embedded in web page  |
| <code>searchVideo(searchTxt,limit, &lt;your-callback&gt;) ;</code> |         | use this method to search a video by name or by author o metatag   |
| <code>searchTxt</code>   | string  | the text string that you want search (author name, video title or metatag)   |
| <code>limit</code>   | integer | the max number of results you want obtain as response  |
| <code>&lt;your-callback&gt;</code>                                 |         | because the search is asynchronus, you can specify your callback function to have a notification when the the search results are ready |

