Web API Developer Documentation

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[General Overview 1](#_Toc433629396)

[Technical Specifications 1](#_Toc433629397)

[Getting Started: 1](#_Toc433629398)

[Recommendations: 2](#_Toc433629399)

[Markets & CURRENCIES: 2](#_Toc433629400)

[Request Format And Responses: 3](#_Toc433629401)

[Versioning: 3](#_Toc433629402)

[HTTP Status Codes: 3](#_Toc433629403)

[Web API Base URI: 4](#_Toc433629404)

[Data Definitions: 4](#_Toc433629405)

[Authentication: 4](#_Toc433629406)

[1. AuthenticatePMS 4](#_Toc433629407)

[1.1 Readmeagreement 6](#_Toc433629408)

[1.2 Signreadmeagreement 7](#_Toc433629409)

[Frames Data Imagery 8](#_Toc433629410)

# General Overview

Use the Frames Data Web API to interface with Frames Data resources. Requests are made using the HTTP GET method via URI paths. Errors are reported using standard HTTP Status Codes. The Frames Data API is built using REST principles ensuring predictable URLs that make writing applications easy.

# Technical Specifications

## Getting Started:

To get started, you’ll need to request a PartnerID. Please contact Tom Doyle at 212-274-7123 or [tdoyle@jobson.com](mailto:tdoyle@jobson.com).

In addition to a PartnerID, you will also be issued a KA (Key Account) number.  Your KA account can be used in place of a live subscriber account to test webservice responsiveness and to pull data for retrieval of the “back up” data and any other stored data.  The KA account can also be used in the testing process.

Your partner ID and KA Account are both unique to your company.  Do not display these numbers in the interface in any way or share them with anyone outside your company.

## Recommendations:

Frames Data recommends that you store a complete back-up version of the data, and that it is fully updated once per week. This data should only be used in case of service disruption. Should the webservice become temporarily unavailable, please allow any users whose most recent authentication attempt was successful to access this stored data until the webservice is restored.

In addition, it is recommended that you store “top level data” (manufacturer, brand and collection names) and display this stored data to successfully authenticated subscribers. This will allow for better response time than could be achieved by calling the webservice directly. Again, be sure to update this data weekly as brands and collections are frequently added/changed.

Please call the webservice in real time for all lower level data/configuration details.

## Markets & CURRENCIES:

**Markets**

Frames Data is now providing data for both US and the Canadian markets. Data for only one market can be returned for any given call to the webservice.

Your partnerID will be enabled for either US, Canadian or both depending on your needs.

During the authentication process, the webservice will return a market value to indicate what market the subscriber (either your company or client subscribers to frames Data if you are serving data to subscribers) is authorized to access (determined by product purchased).

When calling the webservice, please indicate the market requested by returning back this value (currently either CAN or USA).

In a few cases, it will be possible for a subscriber to be authorized for multiple markets (if they have purchased data for both markets). The webservice only returns one market at a time; therefore your software will need to indicate which market is being requested and be able to accommodate those subscribers that have purchased both.

**Currency**

In some cases, frame companies are selling frames in one market using the currency of another. For instance, there are manufacturers that are selling frames in Canada but sell them in US dollars rather than having a separate Canadian price list. You will need to indicate the currency being used in the pricing.

Currently in the US, the currency value is always USD. In Canada there will be both CND and USD for currency values.

## Request Format And Responses:

**GET**: Request the specified item. As with normal HTTP requests, the format of the URL defines what is returned.

You may request the returned data structure in JSON or XML by setting the Accept header to one of the following:

application/vnd.fdapi.v1+json (you may also call application/json)

application/vnd.fdapi.v1+xml (you may also call application/xml)

## Versioning:

For future versions of our Web API, versioning will be done via the Accept header. If no Version information is provided then the default will be to return Version 1 of the resource in order to maintain backwards compatibility. Newer versions need to be explicitly called by setting the Accept header to one of the following:

application/vnd.fdapi.v2+json

application/vnd.fdapi.v2+xml

## HTTP Status Codes:

**200 – OK**: Request completed successfully.

**400 – Bad Request**: Bad request structure. The error can indicate an error with the request URL, path or headers. Differences in the supplied MD5 hash and content also trigger this error, as this may indicate message corruption.

**401 – Unauthorized**: The item requested was not available using the supplied authorization, or authorization was not supplied.

**403 – Forbidden**: The requested item or operation is forbidden.

**404 – Not Found**: The requested content could not be found.

**405 – Resource Not Allowed**: A request was made using an invalid HTTP request type for the URL requested. For example, you have requested a PUT when a POST is required. Errors of this type can also triggered by invalid URL strings.

**406 – Not Acceptable**: The requested content type is not supported by the server.

**415 – Bad Content Type**: The content types supported, and the content type of the information being requested or submitted indicate that the content type is not supported.

**500 – Internal Server Error**: There might be a problem with the Web API Service.

## Web API Base URI:

<http://api.framesdata.com>

Click on the “API” link for detailed documentation on available resources.

## Data Definitions:

**Manufacturer:** This is the top of the data hierarchy and describes a frame manufacturer.

**Brand:** A brand is a subset of a manufacturer and one manufacturer can have many brands. Brands are linked to a manufacturer record by ManufacturerID (ManufacturerFramesMasterID).

**Collection:** A collection is a subset of a brand and one brand can have many collections. Collections are linked to a brand record by BrandID (BrandFramesMasterID). A collection is a grouping of frame styles.

**Style:** A style is an eye frame design defined by attributes such as frame name, product group, material, etc. Style is a subset of a collection and a single collection may contain many styles. Styles are linked to a collection record by CollectionID (CollectionFramesMasterID).

**Configuration:** A configuration is a specific purchasable frame (SKU or UPC) containing a unique color, size, and price. A style can and usually does have multiple configurations, one for each unique combination of color and size. Configurations are linked to a style record by StyleID (StyleFrameMasterID).

**ConfigurationImageName:** Most frame manufacturers submit each color of a specific frame for photography. They may also specify which the “default configuration” is. If photography exists for a frame, Frames Data will supply a URL; if there is no image, the field name will be blank. Image URLs will be in the form of an Images web service endpoint described in the Frames Data Imagery section. Note: image URLs are only provided if partner and subscriber are authorized to receive images.

\*Please note that in some cases, Manufacturer, Brand and/or Collection values may be identical.

## Authentication:

### 1. AuthenticatePMS

To begin a session, your software will pass to Frames Data the following parameters:

**partnerid<GUID>:**

Your unique partner ID

**username:**

A unique Frames Data username is provided to the subscriber via email when their subscription is processed.

**Zipcode:**

**szipcode:** Shipping zipcode

**bzipcode:** Billing zipcode

Frames Data will match these zipcodes to the zipcode of the corresponding Frames Data subscriber account. If your system stores both a billing and street address zipcode, please provide both fields; as long as one of those zip code values matches the Frames Data subscription zip code the authentication will complete.

**locations:**

# of customer locations. Frames Data will match this # to the corresponding field in the subscriber database to ensure that multiple location customers have purchased the correct licensing.

This returns either **an Authorization Ticket**, an **Authorization Ticket with a renewal message** or a **“FALSE” Terms & Conditions** value.

An **Authorization Ticket** indicates that all parameters have authenticated correctly. Subscriber may begin calling other web methods.

An **Authorization Ticket** **and a Renewal Message** indicate that all parameters have authenticated correctly and the Subscriber may begin calling other web methods. However, the subscription is nearing expiration. Please display the message returned by this resource in the UI. Message will include a short notice of impending expiration and a link to renew the subscription.

A **“FALSE” value** indicates that the subscriber is required to agree to Frames Data Terms and Conditions. If False value is returned, the AuthorizationTicket value will be blank. Please use the following link to display the Frames Data Terms & Conditions: <http://www.framesdata.com/terms/termsandconditions.pdf>.

An **Authentication Error** will be returned for any of the following reasons.

The **partnerid** parameter does not match an active partnerid in our database.

The **username** parameter does not match an active username in our database. Please display the error message returned from the web service, which will contain instructions for the subscriber.

The **zipcodes** provided do not match the zipcodes on the Frames Data subscription account.

The Subscriber’s Product Code does not match a valid Product Code authorized for the Partner.

The authorization ticket must be used in all recurring web api calls in the session. A session is valid for 24 hours so you only need to get a new authorization ticket once every 24 hours (per subscriber).

Values returned from the authenticatepms resource:

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Field Name** | **Description** | **Example** |
| 1 | AuthorizationTicket | Authorization ID that must be used in all recurring web api calls. | C8175DA9-365B-4B45-84EC-A8F516357B81 |
| 2 | RenewalMessage | Also a message with url for subscriber to renew subscription. | “Your subscription will soon expire. Please visit …..” |
| 3 | Termsandagreementvalue | Indication that UI must display Frames Data Terms & Conditions agreement to subscriber; see section 1.1 below. | FALSE |
| 4 | Markets | A comma separated list of markets the subscriber is authorized for. A market value is required for subsequent web api methods. | “USA” or “USA,CAN” |

Authentication Errors

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Error | PartnerID or SubscriberID is inactive or expired or zipcode supplied does not match the zipcode of the Frames Data subscription account or the Subscriber’s Product Code does not match a valid Partner Product Code. If SubscriberID is inactive or expired, UI must display error message returned with error. | Partner ID is invalid. or This subscription has expired. Please renew it by clicking here. |

### 1.1 Readmeagreement

If Terms and Agreement Value (provided as a result of resource authenticatepms above) = FALSE, software UI will display a check box. This text will include a clickable url (which will take the subscriber to the Frames Data Terms & Agreement located at: <http://www.framesdata.com/terms/termsandconditions.pdf>) and a short sentence of text (“I agree to Frames Data Terms and Conditions” etc).

### 1.2 Signreadmeagreement

Once the subscriber indicates they have agreed to Terms & Conditions ( see 1.1 above), the partner must then pass to Frames Data a value “TRUE” to indicate that the subscriber has agreed to Frames Data Terms & Conditions. This value is then stored in Frames Data’s subscriber database until the subscriber next renews, at which time the value reverts back to “FALSE” and the software will once again display the text from 1.1.

If subscriber does not agree to Frames Data Terms & Conditions Agreement, access must not be granted.

Once subscriber agrees, software will return to Frames Data the following information:

**PartnerID<GUID>:**

Unique partner ID.

**SubscriberID:**

The unique Frames Data subscriber ID. This ID is provided to the subscriber via email when their subscription is processed.

**AgreeTerm:**

**1 (True)**

The AgreeTerm will then be stored in Frames Data’s subscription database until the next time the subscriber renews. Terms & Agreement will be required annually.

An Authorization Ticket will then be generated to allow access:

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Field Name** | **Description** | **Example** |
| 1 | authorizationTicket | Authorization ID that must be used in all recurring web api calls. | C8175DA9-365B-4B45-84EC-A8F516357B81 |

## Frames Data Imagery

Frames Data provides a url from which to display a frame image. Please note that this webservice does not allow a mass download of imagery. Rather, Frames Data prefers that you call and display the image directly from the supplied url.

To match the image with the correct data, Frames Data provides a Resource URI that takes the following required parameters: auth, type and either FPC or ID (StyleFrameMasterID) (but not both). FPC is unique to configurations, whereas an ID is a unique identifier attached to a style (please refer to definitions for explanation of style vs configuration). If an ID is provided, Frames Data will provide the default image for that frame. If an FPC is provided, Frames Data will serve the image that is attached to that configuration (which may be the default image). Below are the 2 URL formats used for this purpose:

http://api.framesdata.com/api/images?auth=[**AuthorizationTicket**]&fpc=[**FPC**}&size=[**Size**]

OR

http://api.framesdata.com/api/images?auth=[**AuthorizationTicket**]&id=[**ID**}&size=[**Size**]

**auth:<GUID>:**

Authorization ticket taken from web api resource **authenticatepms.**

**fpc:**

The FPC number of the frame, unique to a configuration

**id:**

(StyleFramesMasterID) A unique identifier for the style

**size:**

Potential values indicating size of image**:**

**Thumb**

**Small**

**Large**

**XL**

**vto<optional>:**

Submit this parameter if you wish to return a VTO image. VTO images are only provided if partner and subscriber are authorized to receive VTO images.

F: front image

L: left image

R: right image

**¾ Image Sizes in pixels (jpg):**

Thumb:   81x42 @ 72 dpi

Small: 325x168 @72 dpi

Large:      566x292 @ 72 dpi

XL:            1000x528 @ 72 dpi

**VTO Image Size in pixels (png):**

Only one size:   621x195 @ 72 dpi

Not all frame styles will have an image. If no image is found for the requested Configuration then a default “Image Not Found” image will be returned in the requested size.