

# MJ Freeway Menu API v3.0



## Revision History

Revision	Date	Author	Notes
0.1	2011-08-31	Cameron Wilhelm	Initial, draft
0.2	2011-10-04	Cameron Wilhelm	Updated pricing structure in JSON return
0.5	2011-12-26	Cameron Wilhelm	<p>Updated to include both JSON and XML format, image URLs, and other minor tweaks.</p> <p>Added table of contents.</p> <p>Because this functionality is still under active development and testing, this version contains URLs that reference a development instance. These URLs may become invalid at any time. The next revision of this document will contain more permanent references to our demo system.</p>
1.0	2011-02-10	Cameron Wilhelm	Updated with latest credential information and minor adjustments to version 1 as built and deployed.
2.0	2012-08-12	Cameron Wilhelm	Updated to v2 of API, including location specific information
3.0	2013-03-07	Ryan Coy	Updated to v3 of API, adding support for category information and on-hand quantities

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## Overview

The purpose of this API is to provide menu export functionality from MJ Freeway dispensaries to partner sites that want to aggregate and list menu information for our dispensaries..

## API Usage

MJ Freeway will provide a unique “API ID” to each partner for use with the MJ Freeway API.

Each dispensary will be able to generate a unique “API KEY” based on the API ID of the partner. Dispensaries will be retrieve this key from the settings area of their MJ Freeway system.

In the MJ Freeway system, any menu item that is not specifically marked as excluded will be included in the result set. The partner will be responsible for parsing the results according to the list below.

## Generating a Request

In order to form a valid request, the partner must have the following information:

- The URL of the API call for the dispensary. For example: <https://www.mjfreeway.com/demo2/api/menu>
- The partner’s unique API ID. To be provided by MJ Freeway.
- The API KEY. This is unique to each instance and can be provided by each dispensary by entering the partner’s API ID on a configuration page. MJ Freeway support staff can also assist with generating this ID.

The partner will then generate a request to the API call URL with the following fields submitted in the body of the request as POST parameters. The request must be submitted over an encrypted https connection.

Field	Description	Notes
API_ID	The unique API ID assigned by MJ Freeway to Partner	
API_KEY	The unique API KEY for this MJ Freeway dispensary	The combination of the API_ID and API_KEY are used to authenticate the request.
version	The version of the menu API call you’d like to interface with	The current version is “3”. This parameter is important to include in case of future changes to the API
format	The requested return format	Valid values are “XML” or “JSON”. Any other value will result in an error. If left blank, XML will be returned.
location_nid	The ID of the location (used for multi-location systems)	Some of our systems have more than one physical location on the same database. To get the menu information specific to a location, include the id of that location in this parameter. Leave blank to get the information for all locations (including a list of locations and nids)

## Response

Upon receiving a request, the API will respond in three sections. The first section details the results of the request. Assuming that the request is successful, the second section contains the data.

### Response Header

The response header contains the following fields:

Field	Description	Notes
response_code	The API result of processing the request	<p>This is one of three values, depending upon the result. Possible values are:</p> <p>OK. Result set will follow in the rest of the document</p> <p>AUTHFAILED - Authentication Failed</p> <p>ERROR - Other or unknown error. Details are provided in response_details if available.</p>
response_details	Details associated with the response code. Useful for troubleshooting	If an error occurred during the response, additional error information, if available, appears here.

#### XML Sample Response Header

```
<response_header>
    <response_code>OK</response_code>
    <response_details/>
</response_header>
```

#### JSON Sample Response Header

```
{"response_header": {
    "response_code": "OK"
}}
```

## Product Categories

The next section returned for successful requests describes the categorization of products, including the name, description, a flag for whether this category contains regulated product, and inventory buffer levels.

Field	Description	Notes
category_name	A text string, configurable by the client	
category_description	A text string describing this category	May contain HTML elements
regulated	A flag indicating whether products in this category fall under additional regulations	true or false  In MJFreeway's software, this flag marks whether products in this category contain MMJ.
buffer_bulk_qty	A level configurable by the client	This is the level at which the client has indicated they wish bulk(weight) tracked products to be hidden from view
buffer_bulk_uom	A text string describing the UOM	Valid values: [oz, gm, lb]  MJFreeway allows clients to set their bulk buffers using a variety of UOM, separately from how they actually count their products.  1oz = 28.3495gm  1lb = 453.592gm
buffer_simple_qty	A level configurable by the client	This is the level at which the client has indicated they wish simple tracked products to be hidden from view.

## Locations

For a successful request, the next section contains the locations that are contained on this system. Included is the ID (nid) and location name of each location.

**XML Sample Response Locations**

```
<locations>
  <location_nid>45
  <location_name>Medical Marijuana Center</location_name>
  </location_nid>
  <location_nid>144
  <location_name>South Center</location_name>
  </location_nid>
</locations>
```

**JSON Sample Response Locations**

```
"locations": {
  "45": { "location_name": "Medical Marijuana Center" },
  "144": { "location_name": "South Center" }
}
```

**Menu Items**

For the menu export API, the data section is contained within menu\_items. Within that that, each menu item contains the following data

Field	Description	Notes
location_nid	The nid of the location that this menu item belongs to	
record_id	A unique id assigned to each record by MJ Freeway	When processing the request, if a record with this ID already exists, it should be overwritten with the new information provided.
last_update	Date and time this record was last modified in the MJ Freeway system	Format: 2011-11-21 12:21:04  When receiving a new list, records that have not been updated since the last time the list was retrieved can be safely ignored.
active	A flag that indicates that this menu item should be displayed	true or false  Records not marked as active should NOT appear in any consumer-facing results
title	Product Title	This is a text string, and is configured by each dispensary. For instance "Blueberry Bulk"

Field	Description	Notes
description	a text string containing description information.	May contain HTML tags
category	The category of the product	This is a text string, and is configured by each dispensary. For example: "Accessories", "Flower", "Bud"
export_category	A more standardized list of product category	A text string that contains one of the following: "Edible", "Drink", "Clone", "Seed", "Tincture", "Gear", "Topicals", "Purples", "Indica", "Sativa", "Hybrid", "Concentrate"
medicated	True/false flag	Indicates whether or not this product contains MMJ
price	Standard pricing levels for this product	<p>The price for each of a standardized set of pricing levels, including: gram, eighth, quarter, half, and ounce</p> <p>Pricing weights within MJ Freeway are fully configurable. We ask the users to flag which ones should be used for "standard" pricing weights for the purposes of menu exports. Please see the example below.</p> <p>For non-weighted items, a simple price is returned</p>
member_price	Member pricing levels for this product	<p>The price for each of a standardized set of pricing levels, including: gram, eighth, quarter, half, and ounce</p> <p>Pricing weights within MJ Freeway are fully configurable. We ask the users to flag which ones should be used for "standard" pricing weights for the purposes of menu exports. Please see the example below.</p> <p>For non-weighted items, a simple price is returned</p>

Field	Description	Notes
product_images	URLs to product images in assorted sizes	<p>For any product that has an image associated with it, the following sizes (by width) are provided: 35 pixels, 80 pixels, 160 pixels, 320 pixels, 640 pixels, and full size.</p> <p>The full size image is the actual image as uploaded by the dispensary. Image uploads have a 5 MB maximum size.</p> <p>If an image is uploaded that is smaller than the dimensions listed here, then the full-size image is substituted. For example, if the source image has a width of 300 pixels, then the 320 px, the 640 px, and the full size image will all return the same, 300 pixel wide image. Because of this, if your solution relies on a specific size, we recommend that you check attributes on the image returned before use.</p> <p>Note that the XML property names for the XML and JSON versions are slightly different due to naming restrictions.</p> <p>Finally, the images are provided in multiple sizes as a convenience. To help us ensure optimal performance for all of our customers and partners, please retrieve the images you need for your solution once per update, and do not hotlink to the images on our servers. We reserve the right to suspend or disable the serving of menu images in the event that ongoing use is affecting other services.</p>
current_level	Descriptions of this product's tracking type and current on-hand amounts	Please see the table below for an in-depth description of the child elements

### Product Levels

The current\_level element associated with each product element contains the following data used to describe the current amount of product the client has on-hand.

Field	Description	Notes
type	A text string for the tracking type of the product	<p>Returns: [bulk, prepack, simple, nontracked]</p> <p>Bulk can be thought of as synonymous with 'weight'. Ex. The dispensary's display jar from which they sell grams, eighths, etc.</p> <p>Simple is used for products tracked by unit count. Ex. Edibles and accessories.</p> <p>Prepack is for used in cases where a single product is sold by units of pre-weighed inventory. Ex. A single prepacked eighth can be thought of simultaneously as '1 eighth' or '3.5 grams'</p> <p>Nontracked are for saleable items which are not inventoried. Ex. Services such as classes or consultations</p>
level	Indicates the current on-hand amount of this product	<p>The behavior of this field changes slightly based on the type of product being described.</p> <p>Nontracked products will not return a level.</p> <p>Simple products will return an integer</p> <p>Bulk and Prepack products will return a floating point value describing the weight</p>
level_uom	Indicates the current level's UOM	<p>Returns: [oz, gm]</p> <p>This is the client-configured UOM by which they track this product.</p> <p>1oz = 28.3495gm</p>
level_units	Indicates the product's unit count	<p>This field is only used by prepack products, enabling tracking not only by sum weight but also by units of inventory.</p> <p>Example: A prepack product currently tracking 2x3.5gm &amp; 2x7gm units would return a level equivalent to 21gm, and level_units of 4.</p>

### XML Sample Response Body

```
<menu_items>
<product>
    <location_nid>45</location_nid>
    <record_id>20</record_id>
    <last_update>2011-11-21 12:21:04</last_update>
    <active>true</active>
    <title>Blueberry MMJ</title>
    <description>
        Very fruity aroma and taste of blueberry. Blueberry marijuana produces a notable and pleasantly euphoric high of the
        highest quality and is very long-lasting.
    </description>
    <category>MMJ</category>
    <export_category>Hybrid</export_category>
    <medicated>true</medicated>
    <price>
        <gram>14.00</gram>
        <eighth>35.00</eighth>
        <quarter>70.00</quarter>
        <half>130.00</half>
        <ounce>200.00</ounce>
    </price>
    <member_price>
        <gram>12.00</gram>
        <eighth>30.00</eighth>
        <quarter>60.00</quarter>
        <half>115.00</half>
        <ounce>200.00</ounce>
    </member_price>
    <product_images>
        <image_35px>
            https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/uc_thumbnail/marijuana.jpg
        </image_35px>
        <image_80px>
            https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_80px/marijuana.jpg
        </image_80px>
        <image_160px>
            https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_160px/marijuana.jpg
        </image_160px>
    </product_images>
</product>
</menu_items>
```

```
<image_320px>
https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_320px/marijuana.jpg
</image_320px>
<image_640px>
https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_640px/marijuana.jpg
</image_640px>
<image_full>
https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_full/marijuana.jpg
</image_full>
</product_images>
<current_level>
<type>bulk</type>
<level>45.73</level>
<level_uom>gm</level_uom>
</current_level>
</product>
</menu_items>
```

**JSON Sample Response Body**

```

"menu_items": {
    "Blueberry MMJ": {
        "record_id": "20",
        "location_nid": "45",
        "last_update": "2011-11-21 12:21:04",
        "active": "true",
        "title": "Blueberry MMJ",
        "description": "Very fruity aroma and taste of blueberry. Blueberry marijuana produces a notable and pleasantly euphoric high of the highest quality and is very long-lasting.",
        "category": "MMJ",
        "export_category": "Hybrid",
        "medicated": "true",
        "price": {
            "gram": "14.00",
            "eighth": "35.00",
            "quarter": "70.00",
            "half": "130.00",
            "ounce": "200.00"
        },
        "member_price": {
            "gram": "12.00",
            "eighth": "30.00",
            "quarter": "60.00",
            "half": "115.00",
            "ounce": "200.00"
        },
        "product_images": {
            "35px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/uc_thumbnail/marijuana.jpg",
            "80px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_80px/marijuana.jpg",
            "160px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_160px/marijuana.jpg",
            "320px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_320px/marijuana.jpg",
            "640px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_640px/marijuana.jpg",
            "full": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_full/marijuana.jpg"
        }
    },
    "current_level": {
        "type": "bulk",
        "level": 45.73
    }
}

```

```
        level_uom:'gm'  
    }  
}  
}
```

Upon receiving a request, the following actions are possible:

- Insert - If a record with this id has never been received before, the retrieving system should insert a record for this record
- Update - If a record with this id has been received before, the receiving system should overwrite the record with the new data.
  - Note that if a previously active product is now marked as active: false, that product should be removed from any public-facing listings.
- Delete - If you have previously received a record with an ID that no longer appears in the result set, you should delete that record from your system.

## Full Sample XML Response

```

<response>
<response_header>
    <response_code>OK</response_code>
    <response_details/>
</response_header>
<product_categories>
    <category>
        <category_name>MMJ</category_name>
        <category_description/>
        <regulated>true</regulated>
        <buffer_bulk_qty>14</buffer_bulk_qty>
        <buffer_bulk_uom>gr</buffer_bulk_qty>
        <buffer_simple_qty>12</buffer_simple_qty>
    </category>
</product_categories>
<locations>
    <location_nid> 45
    <location_name>Medical Marijuana Center</location_name>
    </location_nid>
    <location_nid> 144
    <location_name>South Center</location_name>
    </location_nid>
</locations>
<menu_items>
    <product>
        <location_nid>45</location_nid>
        <record_id>20</record_id>
        <last_update>2011-11-21 12:21:04</last_update>
        <active>true</active>
        <title>Blueberry MMJ</title>
        <description>
            Very fruity aroma and taste of blueberry. Blueberry marijuana produces a notable and pleasantly euphoric high of the highest quality and is very long-lasting.
        </description>
        <category>MMJ</category>
        <export_category>Hybrid</export_category>
        <medicated>true</medicated>
        <price>
            <gram>14.00</gram>
            <eighth>35.00</eighth>
            <quarter>70.00</quarter>
            <half>130.00</half>
        </price>
    </product>
</menu_items>

```

```
<ounce>200.00</ounce>
</price>
<member_price>
  <gram>12.00</gram>
  <eighth>30.00</eighth>
  <quarter>60.00</quarter>
  <half>115.00</half>
  <ounce>200.00</ounce>
</member_price>
<product_images>
  <image_35px>
```

[https://i.gomjfreeway.com/demo2/system/files/api\\_image/2806060334f3553f642d853.92915575/20/uc\\_thumbnail/marijuana.jpg](https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/uc_thumbnail/marijuana.jpg)

```
  </image_35px>
  <image_80px>
```

[https://i.gomjfreeway.com/demo2/system/files/api\\_image/2806060334f3553f642d853.92915575/20/product\\_80px/marijuana.jpg](https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_80px/marijuana.jpg)

```
  </image_80px>
  <image_160px>
```

[https://i.gomjfreeway.com/demo2/system/files/api\\_image/2806060334f3553f642d853.92915575/20/product\\_160px/marijuana.jpg](https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_160px/marijuana.jpg)

```
  </image_160px>
  <image_320px>
```

[https://i.gomjfreeway.com/demo2/system/files/api\\_image/2806060334f3553f642d853.92915575/20/product\\_320px/marijuana.jpg](https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_320px/marijuana.jpg)

```
  </image_320px>
  <image_640px>
```

[https://i.gomjfreeway.com/demo2/system/files/api\\_image/2806060334f3553f642d853.92915575/20/product\\_640px/marijuana.jpg](https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_640px/marijuana.jpg)

```
  </image_640px>
  <image_full>
```

[https://i.gomjfreeway.com/demo2/system/files/api\\_image/2806060334f3553f642d853.92915575/20/product\\_full/marijuana.jpg](https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_full/marijuana.jpg)

```
  </image_full>
</product_images>
<current_level>
  <type>bulk</type>
  <level>34.27</level>
  <level_uom>gr</level_uom>
</current_level>
</product>
<product>
  <location_nid>45</location_nid>
  <record_id>645</record_id>
  <last_update>2011-10-13 11:40:43</last_update>
```

```

<active>true</active>
<title>Afgooy Joint</title>
<description/>
<category>MMJ</category>
<export_category>Prerolls</export_category>
<medicated>true</medicated>
<price>
    <simple_price>4.67</simple_price>
</price>
<member_price>
    <simple_member_price>3.73</simple_member_price>
</member_price>
<current_level>
    <type>simple</type>
    <level>14</level>
</current_level>
</product>
</menu_items>
</response>

```

## Full Sample JSON Response

```
{
  "response": {
    "response_header": {
      "response_code": "OK"
    },
    "product_categories": {
      "MMJ": {
        "regulated": "false",
        "buffer_bulk_qty": "14",
        "buffer_bulk_uom": "gr",
        "buffer_simple_qty": "12"
      }
    },
    "locations": {
      "45": { "location_name": "Medical Marijuana Center" },
      "144": { "location_name": "South Center" }
    }
  },
  "menu_items": {
    "Blueberry MMJ": {
      "record_id": "20",
      "location_nid": "45",
      "last_update": "2011-11-21 12:21:04",
      "active": "true",
      "title": "Blueberry MMJ"
    }
  }
}
```

```

"title": "Blueberry MMJ",
"description": "Very fruity aroma and taste of blueberry. Blueberry marijuana produces a notable and pleasantly euphoric high of the highest quality and is very long-lasting.",
"category": "MMJ",
"export_category": "Hybrid",
"medicated": "true",
"price": {
    "gram": "14.00",
    "eighth": "35.00",
    "quarter": "70.00",
    "half": "130.00",
    "ounce": "200.00"
},
"member_price": {
    "gram": "12.00",
    "eighth": "30.00",
    "quarter": "60.00",
    "half": "115.00",
    "ounce": "200.00"
},
"product_images": {
    "35px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/uc_thumbnail/marijuana.jpg",
    "80px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_80px/marijuana.jpg",
    "160px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_160px/marijuana.jpg",
    "320px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_320px/marijuana.jpg",
    "640px": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_640px/marijuana.jpg",
    "full": "https://i.gomjfreeway.com/demo2/system/files/api_image/2806060334f3553f642d853.92915575/20/product_full/marijuana.jpg"
},
"current_level": {
    "type": "bulk",
    "level": "34.27",
    "level_uom": "gr"
}
},
"Afgooley Joint": {
    "record_id": "645",
    "location_nid": "45",
    "last_update": "2011-10-13 11:40:43",
    "active": "true",
}

```

```
        "title": "Afgooey Joint",
        "description": "",
        "category": "MMJ",
        "export_category": "Prerolls",
        "medicated": "true",
        "price": {
            "simple_price": "4.67"
        },
        "member_price": {
            "simple_member_price": "3.73"
        },
        "current_level": {
            "type": "Simple",
            "level": "14"
        }
    }
}
```

## Sample Test Page

Below is a simple HTML test form that can be used to view output. To use, ensure that you update the action URL with the URL of the site you are attempting to test. You can then open the page, input valid values, and view the result.

```
<HTML><HEAD></HEAD><BODY>
<H1>MJ Freeway Menu API Test Page - Demo 2</H1>
<form name="input" action="https://i.gomjfreeway.com/demo2/api/menu" method="post">
API ID: <input type="text" size="50" name="api_id" value="2806060334f3553f642d853.92915575"/><br />
API Key: <input type="text" size="50" name="api_key" value="15409164074f3554db92b2e9.16118430" /><br />
Location NID: <input type="text" name="location_nid" /><br />
Version: <input type="text" name="version" value="2" /><br />
Format: <select name="format">
    <option value="XML">XML</option>
    <option value="JSON">JSON</option>
</SELECT><br />
<input type="submit" value="Submit" />
</form>
</BODY></HTML>
```

## Sample Credentials

The following credentials can be used on the demo2 instance only:

API ID: 2806060334f3553f642d853.92915575

API Key: 15409164074f3554db92b2e9.16118430