

Freestyle API

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Getting Started with the Freestyle API

Overview

Our API (Application Programming Interface) is designed to allow you access your Freestyle account and functionality from within your own application.

Using RESTful principles combined with the JSON service format for payload and responses, we deliver a fast and easy to use API.

What is RESTful?

REST stands for **R**epresentational **S**tate **T**ransfer. It's an architecture style for designing networked applications. It refers to a set of constraints applied to the API architecture which has been accepted as an industry best practice. It's simpler and more lightweight than Web Services such as SOAP. It can be used from many different programming environments. Principles of a RESTful API:

- Uniform Interface

- Stateless

- Cacheable

- Client-Server

- Layered System

- Code on Demand (optional)

[Read more about RESTful principles HERE.](#)

What is JSON?

JSON stands for **J**ava**S**cript **O**bject **N**otation. It's an open standard format that uses human-readable (self-describing) text to transmit data objects. JSON:

- Is hierarchal (values within values)
- Is quick to read and write
- Can use arrays
- Doesn't need an end tag (like XML)
- Can be fetched with an HttpRequest
- Is parsed with a standard JavaScript function.

[Read more about JSON HERE.](#)

Authenticated tenants can securely access the Freestyle API using the **SSL** (Secure Sockets Layer).

Getting Started

The Freestyle API is served over HTTPS from:

<https://www.freestylecommerce.info/webapi/V1>

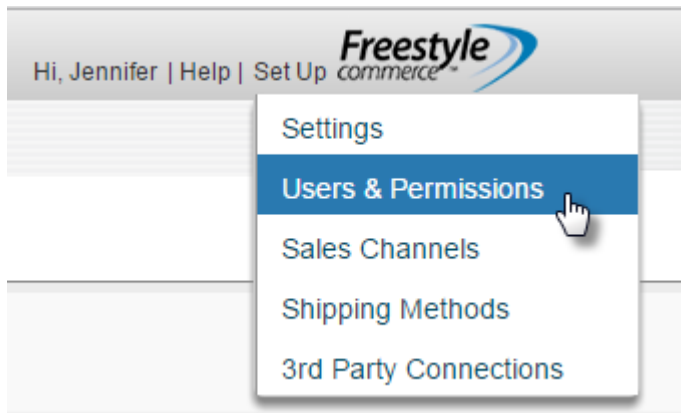
Enabling access to the API

In order to use the API, you'll first need to set up an Admin-level user that will be reserved for the API's exclusive use.

Here's how:

- Log Into your Freestyle account using your **original Admin** account.
- Navigate to **Set Up>Users & Permissions**

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- Click **+Add User**.

User

Email: *

Display Name: *

Set User Password * 

Password: *

Confirm Password: *

Group:

- Enter an **Email address** for the user. This Email address should be valid and accessible by the developer and the Freestyle Admin.

- Enter a **Display Name** for the user.

- Check the **Set User Password** checkbox.

- Enter a **password** for the user. The password must be at least 6 characters long and contain one number and one symbol. Choose a password that is not easily guessed and keep it in a secure location.

Do not allow the Email Address or Password to become general knowledge! Your app's security depends on these values!

- Assign the user to the **Admin** group by selecting it from the **Group** dropdown list.

- Click **Save**.

Resources

Version 1 of the Freestyle API supports three main Resources.

Each resource begins with an uppercase letter and is plural:

● **Products**

● **Orders**

● **Customers**

[Follow this link to see definitions for all the fields contained in each resource.](#)

Guidelines

Rate Limits

TBD.

Field Definitions

Each Resource has specific data fields. Below are listed each resource and the fields for each, along with the definitions of what is contained in each field.

Click on a link to jump directly to each resource:

Products

Orders

Customers

Products

| Field | Definition | Notes |
|------------------|---|--|
| id | Unique product ID assigned by Freestyle | Example: 1065 |
| ProductGuid | GUID | Example: 'ad5716558-a587...' |
| ProductName | Product Name assigned by user | Required for product creation. Max: 255 alpha-numeric |
| ProductSKU | Product SKU assigned by the user | Required for product creation. Max: 64 alpha-numeric |
| ShortDescription | A short description of the product assigned by the user. | Required for product creation. Max: 2GB |
| LongDescription | A longer description of the product assigned by the user. | Max: 2GB |
| Isbn | International Standard Book Number | A 10 or 13-digit numerical code used to uniquely identify books. |

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| | | |
|----------------------|---|---|
| UpcCode | Universal Product Code | A 12-digit numerical code used to uniquely identify a product. |
| Status | The current product status | Valid product Status Values: Active, DeActive, Removed, Discontinued, DoNotSell, Regular, Attributed. |
| RetailPrice | The retail price assigned by the user | Required for product creation. |
| MaxAllowedDiscount | The Maximum discount amount allowed when a customer orders this product | Decimal. Example: (5.2) |
| Weight | The weight of the product | Decimal. Example: (11.2) |
| WeightUnit | The unit of measure for the weight of this product | Determines what unit of measure is being used for this product. For example, English (pounds, oz) or Metric (kilograms, gm) |
| Length | The length of the product | |
| Width | The width of the product | |
| VolumeUnit | | Examples: "in" or "cm" |
| Comments | Any comments or notes about the product entered by the user. | Max: 2GB |
| ImageURL | The URL of the main Product Image | |
| ImageThumbnailURL | The URL of the Product's thumbnail image. | |
| HasAttributedProduct | Indicates if this product has attributes | |
| IsGiftMessageProduct | Indicates if this product allows the customer to send a gift message | Valid values 'yes' 'no' |
| CreateTime | The date and time the product was created, either in Freestyle or the sales channel. Automatically generated by the originating system. | Represented as MM/DD/YYYY HH:MM:SS AM/PM |
| UpdateTime | The date and time of the last update to the product. either in Freestyle or the sales channel. Automatically generated by the originating system. | Represented as MM/DD/YYYY HH:MM:SS AM/PM |
| AvailableQuantity | | |

| | | |
|----------------------------|--|--|
| ComittedQuantity | | |
| BackorderedQuantity | | |
| ReturnedQuantity | | |
| OnOrderQuantity | | |
| PreAssembledQuantity | | |
| CanBeAssembledQuantity | | |
| InventoryLowLevel | | |
| ProductType | | |
| KitStaysTogetherUponReturn | | |
| EanCode | | |
| BarCode | | |
| Bins | | |
| ProductID | | |
| BinID | | |
| Priority | | |
| BinType | | |
| BinName | | |
| TotalQuantity | | |
| AvailableQuantity | | |
| ComittedQuantity | | |
| Returned Quantity | | |
| WarehouseID | | |
| WarehouseName | | |
| Suppliers | | |
| SupplierName | | |
| | | |

API Specifications

Products

The Freestyle API uses the following HTTP methods for products::

GET: Retrieve a list of products, a particular product, or search for a product using a filter.

POST: Create a new product in Freestyle

PUT: Update a previously existing product in Freestyle

DELETE: Remove a product from Freestyle (Note: the product is not deleted from the database, but its status is set to 'Removed'.)

List Products

GET webapi/V1/Products

A maximum of 250 product records will be returned. 'Page' and 'limit' parameters can be used.

For example:

GET webapi/V1/Products?page=3&limit=100

Search for Products

GET webapi/V1/Products?filter=filtervalue

Supported Filter Values:

ProductName

ProductSKU

Status

(Valid Values for Status: Active, DeActive, Removed, Discontinued, DoNotSell, Regular, Attributed. No other values are accepted for Status in Freestyle.)

ShortDescription

HasAttributedProduct

min_date_modified

max_date_modified

min_quantity

max_quantity

min_price

max_price

ProductType

(Valid Values for ProductType: Standard, Kit, Component. No other values are accepted for ProductType in Freestyle.)

Retrieve a Specific Product

GET webapi/V1/Products/{id}

The Freestyle API will return product information. For example:

```
{  
  "id": "11",  
  "ProductGuid": "1d93c421-59b6-40eb-b2e5-a39c01256c3e",  
  "ProductName": "PF7977",  
  "ProductSku": "PF7977",  
  "ShortDescription": "Baldwin PF7977",  
  "LongDescription": "Baldwin PF7977",  
  "Isbn": null,
```

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```
"UpcCode":"","  
"Status":"Active",  
"RetailPrice":"15.75",  
"MaxAllowedDiscount":"0.00",  
"Weight":"12.00",  
"WeightUnit":"oz",  
"Length":"5.00",  
"Width":"4.00",  
"Height":"4.00",  
"VolumeUnit":"in",  
"Comments":"","  
"ImageUrl":null,  
"ImageThumbnailUrl":null,  
"ParentProductGud":null,  
"HasAttributedProduct":"False",  
"IsGiftMessageProduct":"False",  
"CreateTime":"9/4/2014 5:48:19 PM",  
"UpdateTime":"11/21/2014 4:49:31 PM",  
"AvailableQuantity":"491.00",  
"CommittedQuantity":"3.00",  
"BackorderedQuantity":null,  
"ReturnedQuantity":"0.00",  
"OnOrderQuantity":"0.00",
```

```
"PreAssembledQuantity":null,
"CanBeAssembledQuantity":"0",
"InventoryLowLevel":"0.00",
"ProductType":"Standard",
"KitStaysTogetherUponReturn":"True",
"EanCode": "",
"BarCode": "",
"Bins":[{"
    "ProductId":"1d93c421-59b6-40eb-b2e5-a39c01256c3e",
    "BinId":"7b1d6f4e-0cbe-4bb3-98b4-a3bf00c409b9",
    "Priority":"1",
    "BinType":"PreferredPickBin",
    "BinName":"magentolocal8080-PF7977",
    "TotalQuantity": "",
    "AvailableQuantity":"491.00",
    "CommittedQuantity":"3.00",
    "ReturnedQuantity":"0.00",
    "WarehouseId":"7efc7151-5cee-4cc3-ad3b-a34600a3a605",
    "WarehouseName":"9Hispalis"
}],
"Suppliers":[{"
    "SupplierName":"FS Test Supplier"
}]
```

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}

[Follow this link to find out more about Product Field Definitions.](#)

Code Examples:

PHP

```
<?php
```

```
$url ="https://www.freestylecommerce.info /webapiV1/Products/28;
```

```
$username = "foo@foodomain.com";
```

```
$password = "qaz@PASSword.net";
```

```
$CURL = curl_init();
```

```
curl_setopt($CURL, CURLOPT_URL, $url); // set url to post to
```

```
curl_setopt($CURL, CURLOPT_HTTPAUTH, CURLAUTH_BASIC);
```

```
curl_setopt($CURL, CURLOPT_HTTPHEADER, array('Accept: application/json'));
```

```
curl_setopt($CURL, CURLOPT_USERPWD, $username . ":" . $password);
```

```
curl_setopt($CURL, CURLOPT_RETURNTRANSFER, true);
```

```
curl_setopt($CURL, CURLOPT_SSL_VERIFYPEER, 0);
```

```
curl_setopt($CURL, CURLOPT_SSL_VERIFYHOST, 0);
```

```
curl_setopt($CURL, CURLOPT_HEADER, 1);
```

```
$Response = curl_exec($CURL);  
if($Response === false)  
{  
    print(curl_error($CURL));  
}  
curl_close($CURL);  
print( $Response);  
  
?>
```

JavaScript

C#/Ruby

Create a Product

Creates a product within Freestyle.

Note: Currently, only creating a 'Standard' product type is supported in the Freestyle API.

POST webapi/V1/Products

The example below shows the minimum fields required to create a product:

```
{  
  "ProductSku": "PF7777",  
  "ProductName": "Baldwin PF7777 Fuel Filter",  
  "ShortDescription": "PF7777 Fuel/Water Separator Element Fits : Chrysler,  
Bering, Ford, Freightliner, Kenworth, Peterbilt Trucks; Cummins ISB Engines; Cummins  
5.9 Liter Turbo Diesel 2000 - June 2002 Replaces : Chrysler 5015581AA; Cummins  
3942470; Fleetguard FS19579",  
  "RetailPrice": "17.02",  
  "AvailableQuantity": 6,  
  "Length": "0.00", "Width": "0.00", "Height": "0.00", "VolumeUnit": "in",  
  "Weight": "0.5",  
  "WeightUnit": "lbs"  
}
```

Update a Product

PUT `webapi/V1/Products/{id}`

```
{  
  "ProductName": "Baldwin PF7977 Fuel Filter",  
  "RetailPrice": "15.75",  
  "AvailableQuantity": 18,  
  "Weight": "0.5"  
}
```

The following product fields **can be updated**:

ProductName

ShortDescription

LongDescription

UpcCode

RetailPrice

MaxAllowedDiscount

Weight

WeightUnit

Length

Width

Freestyle API

Height

VolumeUnit

Comments

ImageUrl

ImageThumbnailUrl

IsGiftMessageProduct

AvailableQuantity

The following **READ ONLY fields can NOT be updated**. They represent values assigned or calculated/updated by Freestyle:

ProductGuid

ParentProductGuid

HasAttributedProduct

CreateTime

UpdateTime

OnShelfQuantity

CommittedQuantity

BackorderedQuantity

OnOrderQuantity

PreAssembledQuantity

CanBeAssembledQuantity

ProductType

Remove a Product

Note: Products are not actually deleted from the Freestyle database. Instead, the product status is changed to 'Removed'.

DELETE `webapi/V1/Products/{id}`

Orders

The Freestyle API uses the following HTTP methods for orders:

GET: Retrieve a list of orders, a particular order, or search for an order using a filter.

POST: Create a new order in Freestyle

PUT: Update order is NOT currently supported.

DELETE: Delete order is NOT currently supported.

List Orders

GET webapi/V1/Orders

A maximum of 250 order records will be returned. 'Page' and 'limit' parameters can be used.

For example:

GET webapi/V1/Orders?page=1&limit=50

Search for Orders

GET webapi/V1/Orders?filter=filtervalue

Supported Filter Values:

OrderStatus

(Valid Values for OrderStatus: New, Canceled, Backorder, PartiallyShipping, AllShipping, Completed, Removed, PendingPayment, OnHold, PartialHold, PartialBackorder. No other values are accepted for Status in Frestyle.)

min_id

max_id

SalesChannelID

For example:

GET webapi/V1/Orders?min_id=12345

Retrieve a Specific Order

GET `webapi/V1/Orders/{id}`

The Freestyle API will return order information. For example:

```
{  
  "id":"1024",  
  "OrderNumber":"1024",  
  "OrderDate":"11/17/2014 2:20:35 PM",  
  "ShippingMethod":"USPS Priority Mail",  
  "BillingAddress":{  
    "FirstName":"Joe",  
    "LastName":"Test1",  
    "Company": "",  
    "AddressLine1":"9 Hispalis Rd",  
    "AddressLine2": "",  
    "City":"Andover",  
    "State":"MA",  
    "Postcode":"01810",  
    "Country":"US",  
    "Email":"Joe@Test.com",  
    "Phone":"9785553902"  
  },  
}
```

```
"ShippingAddress":{
    "FirstName":"Joe",
    "LastName":"Test",
    "Company": "",
    "AddressLine1":"9 Hispalis Rd",
    "AddressLine2": "",
    "City":"Andover",
    "State":"MA",
    "Postcode":"01810",
    "Country":"US",
    "Email":"Joe@Test.com",
    "Phone":"9785553902"
},
"UpdateAt":"11/17/2014 2:21:08 PM",
"OrderStatus":"New",
"TotalAmount":22.70,
"PaidAmount":0.0,
"ShippingAmount":6.95,
"TaxAmount":0.00,
"OrderItems":[{
    "ProductSKU":"PF7977",
    "Quantity":"1.00",
    "Price":"15.75",
```

Freestyle API

```
        "Discount":"0.00"
    }},
    "HandlingInstructions":null,
    "SpecialInstructions":null,
    "PromotionCode":null,
    "SalesChannelId":"a57c68d2-c544-4f7a-8ed0-a39a00e2c1e0",
    "Shipments":[]
        "Dropships":[]
    }
}
```

Create an Order

POST webapi/V1/Orders

Returns:

```
{
  "OrderNumber":"123489",
  "OrderDate":"11/20/2014 5:06:39 AM",
  "ShippingMethod":"2-Day Domestic",
  "BillingAddress":{
    "FirstName":"Joe",
    "LastName":"Test",
    "Company": "",
    "AddressLine1":"9 Hispalis Rd",
    "AddressLine2": "",
    "City":"Andover",
    "State":"MA",
    "Postcode":"01810",
    "Country":"US",
    "Email":"Joe@Test.com",
    "Phone":"9785553902"
  },
  "ShippingAddress":{
```

Freestyle API

```
"FirstName":"Joe",
"LastName":"Test",
"Company": "",
"AddressLine1":"9 Hispalis Rd",
"AddressLine2": "",
"City":"Andover",
"State":"MA",
"Postcode":"01810",
"Country":"US",
"Email":"Joe@Test.com",
"Phone":"9785553902"
},
"UpdateAt":"11/20/2014 5:06:39 AM",
"OrderStatus":12,
"TotalAmount":22.70,
"PaidAmount":0.0,
"ShippingAmount":6.95,
"TaxAmount":0.00,
"OrderItems":[{"
    "ProductSKU":"PF7977",
    "Quantity":"1.00",
    "Price":"15.75",
    "Discount":"0.00"
```



```
    },  
    "SalesChannelId": "f5defa6d-9566-4705-b201-a3e90170895a"  
  }  
}
```

Customers

The Freestyle API uses the following HTTP methods for customers:

GET: Retrieve a list of customers, a particular customer, or search for a customer using a filter.

POST: Create a new customer in Freestyle

PUT: Update a previously existing customer in Freestyle

DELETE: Delete Customer is NOT currently supported.

List Customer

GET webapi/V1/Customers

A maximum of 250 customer records will be returned. 'Page' and 'limit' parameters can be used.

For example:

GET webapi/V1/Customers?page=1&limit=50

Search for Customers

GET webapi/V1/Customers?filter=filtervalue

Supported Filter Values:

CustomerNumber

FirstName

LastName

Company

AddressLine1

AddressLine2

City

State

Postcode

Country

Email

Phone

Status

Fraud

ChannelID

For example:

GET webapi/V1/Customers?LastName=Smith

Retrieve a Specific Customer

GET `webapi/V1/Customers/{id}`

Returns:

```
{  
  "id":"2",  
  "LastName":"Test1",  
  "MiddleName":null,  
  "FirstName":"Joe",  
  "Salutation": "",  
  "Title": "",  
  "CustomerNumber":1846,  
  "Email": "test1@channelbrain.com",  
  "Phone":null,  
  "PhoneExtension":null,  
  "Fax": "",  
  "Priority":1,  
  "Status":0,  
  "AddressLine1": "1 main st",  
  "AddressLine2":null,  
  "State": "New Hampshire",  
  "Postcode": "03038",  
}
```

```
"Company":"","  
"Country":"US",  
"City":"Derry"  
}
```

Create a Customer

POST webapi/V1/Customers

```
{  
    "LastName":"TestPost2",  
    "MiddleName":null,  
    "FirstName":"John",  
    "Salutation": "",  
    "Title": "",  
    "Email": "testpost2@channelbrain.com",  
    "Phone": "603-111-1111",  
    "PhoneExtension": "",  
    "Fax": "",  
    "Priority": 1,  
    "Status": 0,  
    "AddressLine1": "9L Rocco Drive",  
    "AddressLine2": "STE 9L",  
    "State": "New Hampshire",  
    "Postcode": "03038",  
    "Company": "",  
    "Country": "United States",  
    "City": "Derry"  
}
```

Update a Customer

PUT webapi/V1/Customers/{id}

```
{  
  "LastName": "TestPost2",  
  "MiddleName": null,  
  "FirstName": "John",  
  "Salutation": "",  
  "Title": "",  
  "Email": "testpost2@channelbrain.com",  
  "Phone": "603-111-1111",  
  "PhoneExtension": "",  
  "Fax": "",  
  "Priority": 1,  
  "Status": 0,  
  "AddressLine1": "9L Rocco Drive",  
  "AddressLine2": "STE 9L",  
  "State": "New Hampshire",  
  "Postcode": "03038",  
  "Company": "",  
  "Country": "United States",  
  "City": "Derry"  
}
```