OLO
TECH OLOTECH.NET

API DOCUMENTATION

CONTENTS

GETTING STARTED

To help you integrate Olotech Web Services into your website or application, Olotech provides technical documentation for Web Service.

The documents include detailed technical information for each Web Service and detail Olotech's service offerings

LIST OF SERVICES

GET PRODUCT INVENTORY:

Receive the all products inventory details. It includes the product code, color, size, product description, division, qty of inventory, season, collection, product price, pricing currency with consideration of product status, warehouse and division access to user and can produce required.

GET PRODUCT DETAIL:

Receive the specific product inventory details. It includes the product code, color, size, product description, qty of inventory, division, season, collection, product price, pricing currency with consideration of product status, warehouse and division access to user and can produce required.

CREATE ORDER:

Place order in Olotech for specifies product for required quality. It requires the product UPC code, product quantity, price, can produce required etc... Order will be created and status of the order will be placed as per the user preference.

IMPORTANT TERMS:

This is very important section. Please read this section carefully before using the API. There are many terms used on API such as Can produce requires items, company code, currency, price category, and tax. All those terms that you must set up in Olotech environment before start using the API.

CUSTOMER DETAILS:

As per below diagram Company* has many attributes such as company code, currency, tax, selling price category, contact details etc.. in Olotech. You need **company code, currency, taxes, selling price category** while creating the order in Olotech and **those are predefined in the Olotech**.

*Company means the customer who purchases your products.

Please refer the below table for the description of each attribute in Olotech.
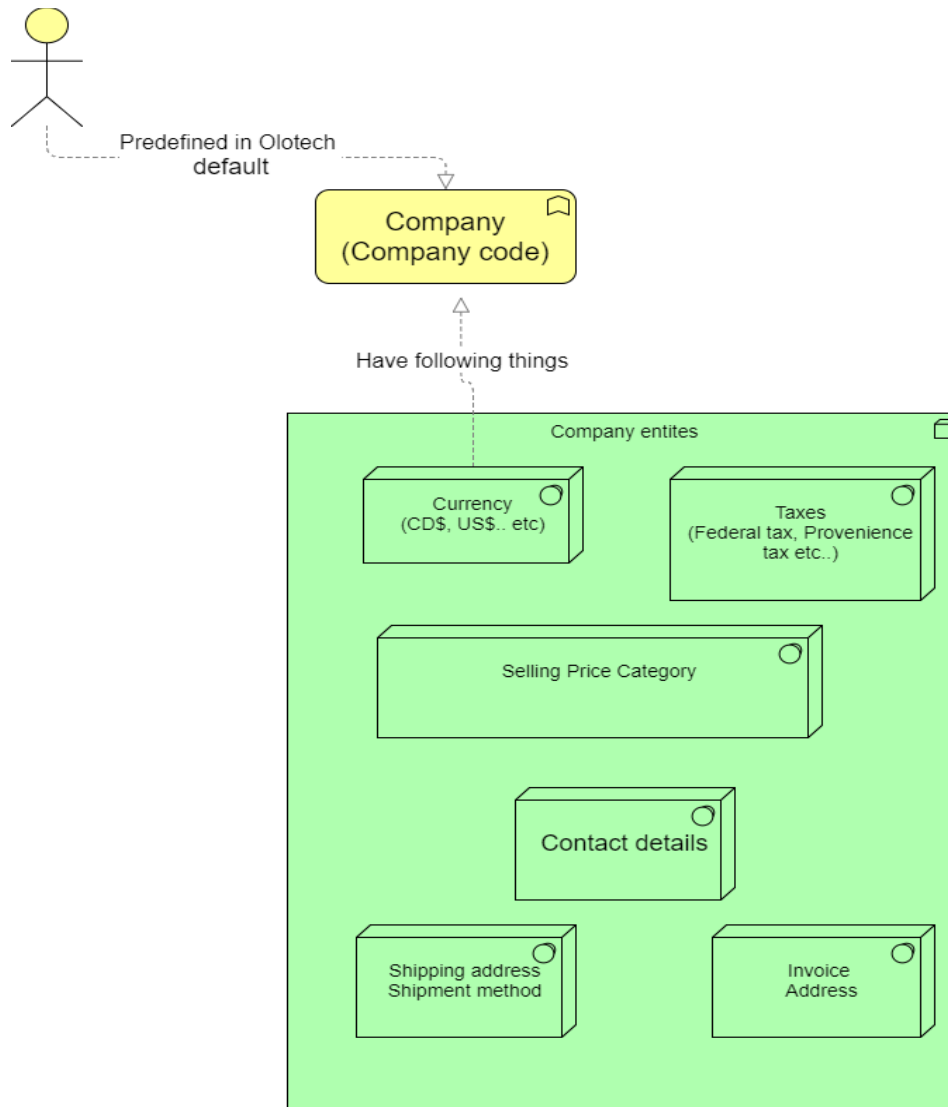
CUSTOMER / COMPANY DETAILS DESCRIPTION:

Field Name	Description
CompanyCode	Code of the Company. This is the unique for each company. Each company has a code in Olotech.
Currency	It is default currency of the company. All prices and tax use that currency. Each company has only one unique currency. Currencies are CD$, US$, EUR, COL$ etc...
Tax	It is applicable tax for the Company based on the country. It includes different taxes such as Federal, Providence tax etc. For example, company in Quebec must pay two taxes (TPS – 5% and TVQ – 9.975%)
Price category	Each product has more than one selling price for example Retail price, Wholesale price etc.… Each company has own price category. If company A has retail price category then only those products are sell to company A which as retail price. No products are sell to company A more than that price.
Contact details	Contact details of the customer including email, cell number, shipping address & Invoice address etc…

PRODUCT DETAILS:

Each product has unique UPC code and have different attributes such as product code, product version, product division, product category, product collection, product size, available quantity for that product in inventory. Those fields are mentioned below.

Please refer the below diagram for product details.
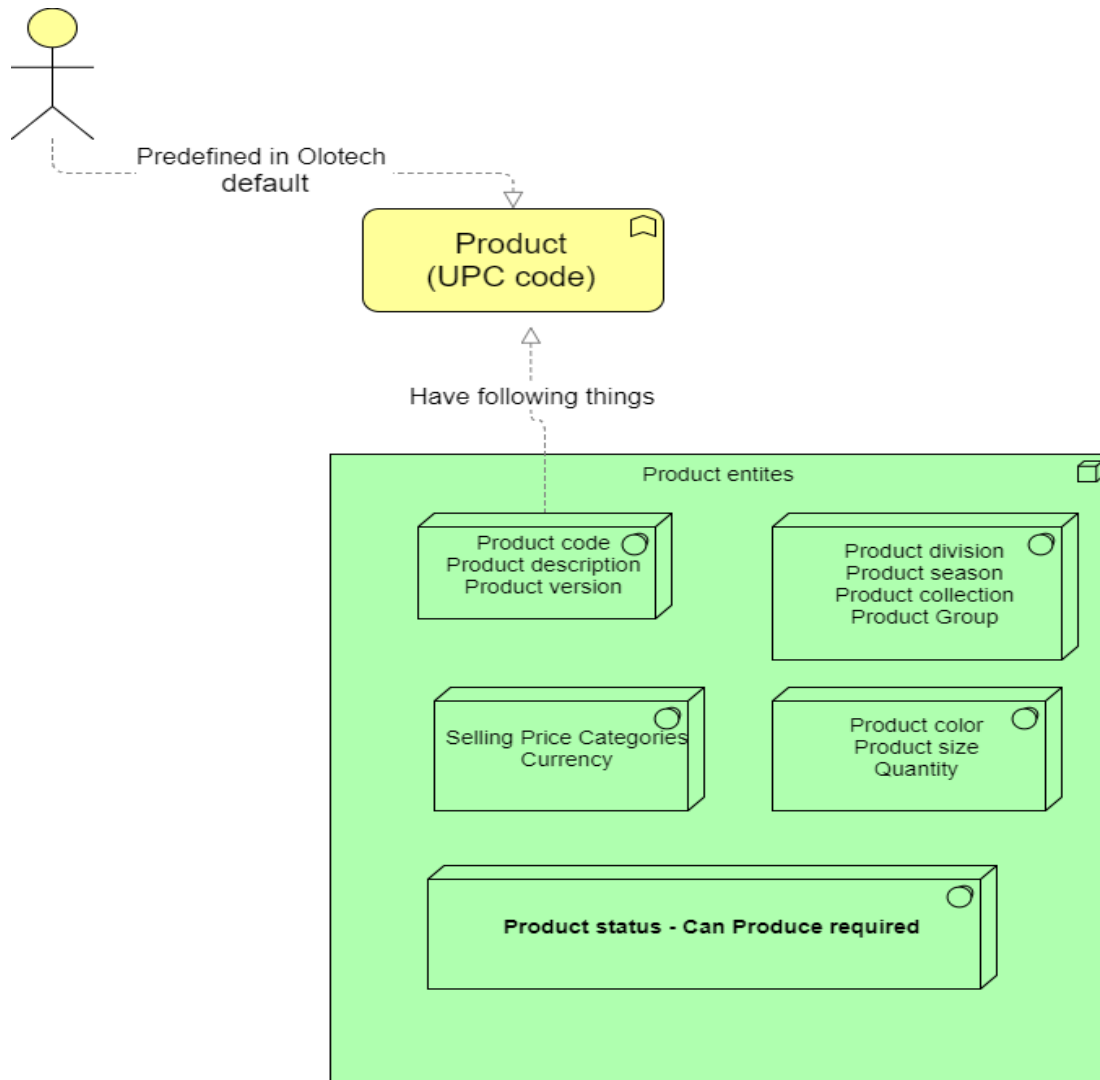
Here Product has special fields which is helpful while placing the order in Olotech. This field is '**CanProduceRequiredItem**'. The value of this flag is based on the predefined status of the product in Olotech. There are two types of order you can place with the API (Business to customer – mostly used) and other is Business to Business.

Can Produce Required – False (Business to Customer) transaction:
You want to sell the product which has enough stock in Inventory. Normally, (Business to customer) category, order is sold only those items which have stock in inventory so you can't create the order more than the stock so in that case flag '**CanProduceRequired**' will be false.

In Olotech, Order is always created against stock items.

Can Produce Required – True (Business to Business) transaction:
You want to create order more than the stock when you have running production of that items or you can produce items on later so you basically you are allowed customer to place unlimited quantity to order, so in that case flag, 'CanProduceRequired' will be true.

In Olotech, Order can be created against stock items, if the company has any pending order then order created against the work in progress (WIP) or if not, then the order can be placed against the required items. If internal work flow of the product can sell only Stock & WIP then order will be placed against stock & WIP If we don't have enough stock then it gives the error. If internal work flow of the product can sell produce required (They can produce as many as quantity), WIP or stock item then it will created order against required, stock and WIP.

Please refer the blow table for more understanding.

CanProduceRequiredItem	Internal Product Status in Olotech	Stock Consideration & Order Placed
No	Can Produce Required items = 0 Consider (Work in Progress) WIP items = 0 Consider Stock items = 1	Stock items **
No	Can Produce Required items = 0 Consider (Work in Progress) WIP items = 1 Consider Stock items = 1	(WIP Items + Stock Items) **
No	Can Produce Required items = 0 Consider (Work in Progress) WIP items = 1 Consider Stock items = 0	WIP Items **
Yes	Can Produce Required items = 0 Consider (Work in Progress) WIP items = 0 Consider Stock items = 1	Required to produce allowed is not permitted so In this case system throws exception `Not allowed to Produce required`
Yes	Can Produce Required items = 0 Consider (Work in Progress) WIP items = 1 Consider Stock items = 1	Required to produce allowed is not permitted so In this case system throws exception `Not allowed to Produce required`
Yes	Can Produce Required items = 1 Consider (Work in Progress) WIP items = 1 Consider Stock items = 1	Produce as many as quantity for this order.

** If we don't have stock then `Invalid Product quantity` exception

Field Name	Description
ProductQty	Quantity of the product from Inventory
UPCCode	Unique product code
ProductCode	Product individual code
ProductVersion	Product version information, which version related to this product.
ProductDescription	Description of the product like any specific text to help while describing the product
ProductDivision	Product division information, which division related to this product.
ProductSeason	Product season information
ProductCollection	Product collection information
ProductGroup	Product group information
ProductColor	Product color
ProductSize	Product size
ProductPrice	Product prize
ProductCurrency	Product currency (CD$, US$ etc..)
CanProduceRequiredItem	If - No: Allow to sell only stock items (B2C) If - Yes: Allow to sell unlimited quantity for that item (B2B)

HOW TO USE THE OLOTECH API

REQUIREMENTS:
- User must have a validated user name and password.
- If you don't have credential then please contact the Olotech.

BASIC AUTHORIZATION:
- Using the user name and password, you must generate a basic authorization token to access the API. Postman will generate authorization token automatically.
- To get your own authorization token, you have a {username}:{password} and encode this field into base64. It should look like this: "Basic dGVzdDp0ZXN0="
- You must add this header (Basic dGVzdDp0ZXN0=) in your request.
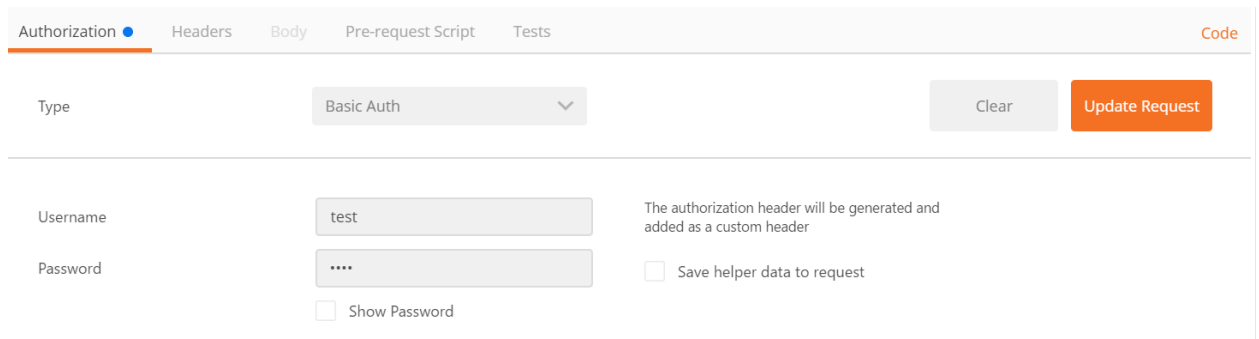
TESTING THE API:
- Please download the Google chrome
- Install the Postman extension

STEP BY STEP:

Step 1:
- Enter the Olotech username and password in Postman plugin as per blow attached screen shot and update the request.

Step 2:

- Enter the Olotech webservice URL, provide the content-type in the header and also select the request type either it is get, post etc.. so it looks like as per blow.
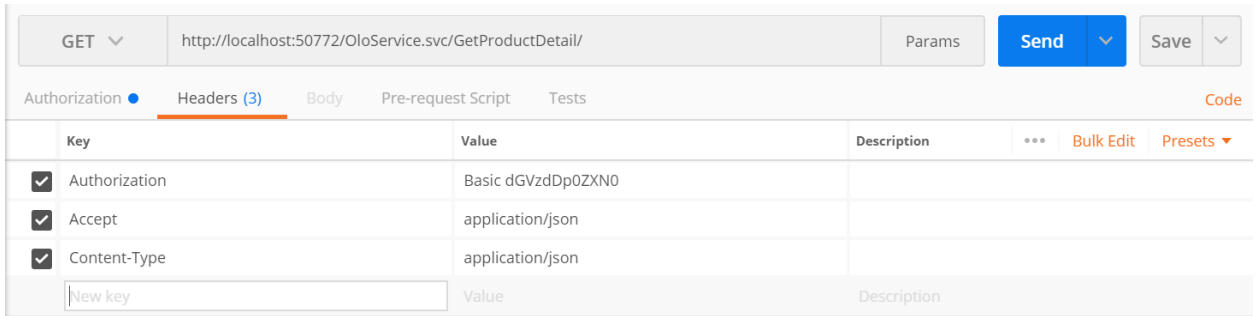
Step 3:

- Press the send button and you get the response in body and it is in the json format as per below attached screenshot.
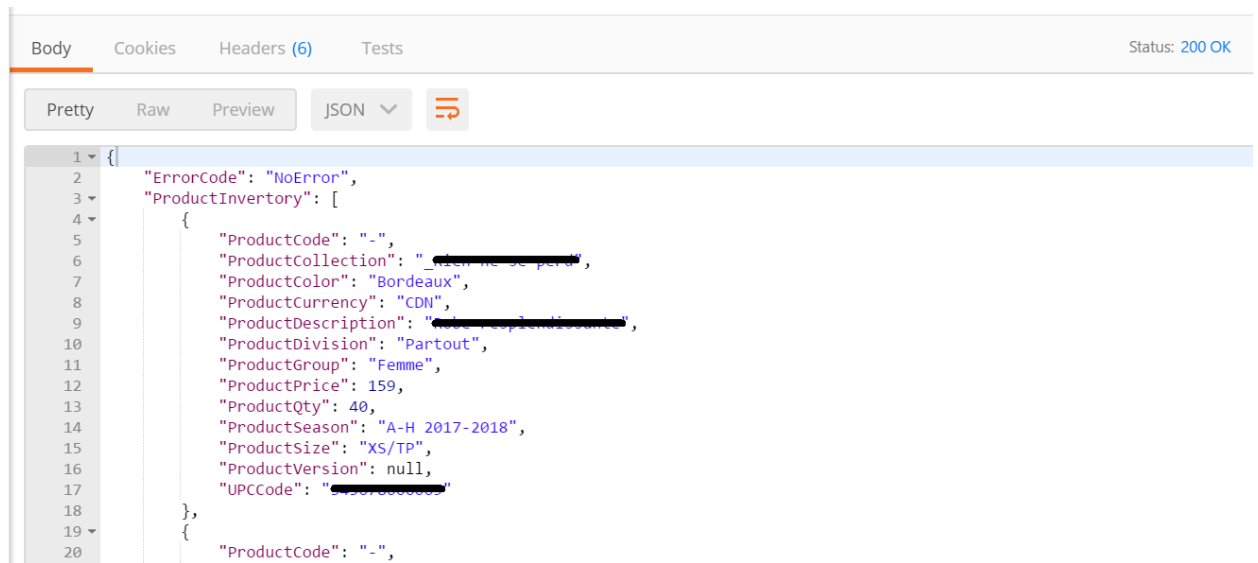
Key	Value
username	Olotech user name
Password	Olotech user password
Content -type	Application/json

HOW TO USE DEVELOPMENT (SANDBOX) ENVIRONMENT:

GET PRODUCT INVENTORY:

Access URL for test:

http://XXXX0XXX.ddns.net/XXXX0XXXWebAPItest/OloService.svc/GetProductInventory

Access URL for production:

http://XXXX0XXX.ddns.net/XXXX0XXXWebAPI/OloService.svc/GetProductInventory

GET PRODUCT DETAIL:

Access URL:

http://XXXX0XXX.ddns.net/XXXX0XXXWebAPItest/OloService.svc/GetProductDetail/{UPCCode}

Access URL for production:

http://XXXX0XXX.ddns.net/XXXX0XXXWebAPI/OloService.svc/GetProductDetail/{UPCCode}

CREATE ORDER:

Access URL:

http://XXXX0XXX.ddns.net/XXXX0XXXWebAPItest/OloService.svc/CreateOrder/New

Access URL for production:

http://XXXX0XXX.ddns.net/XXXX0XXXWebAPI/OloService.svc/CreateOrder/New

GET PRODUCT INVENTORY:

URL:
http://XXXX0XXX.ddns.net/XXXX0XXXWebAPI/OloService.svc/GetProductInventory

METHOD QUERY PARAMETERS:
Http method: GET

Content type: application / json -> input

Accept: application / json -> output

DESCRIPTION:
- Receive the all products inventory details. It includes the product code, color, size, product description, division, qty of inventory, season, collection, product price, pricing currency with consideration of product status, warehouse and division access to user.
- Please refer the following request and response parameters for API response

WORK FLOW:
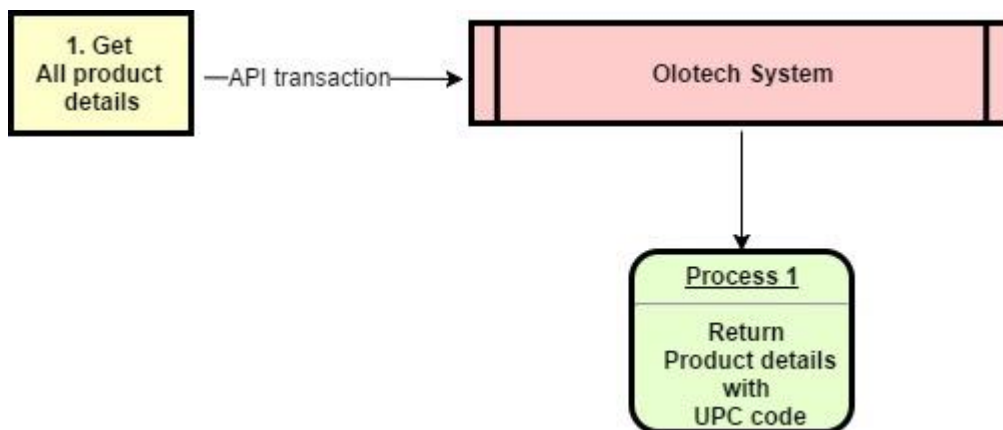
REQUEST PARAMETERS:
- There is no request parameter for this method.

RESPONSE PARAMETERS:
- Following will be response parameters for the API response.
- It will be in json format.

PRODUCTINVENTORYRESPONSE:

Field Name	Data Property	Description
Success	Boolean	Either is false or true.
ErrorCode	String	Error code.
ProductInvertory	ProductInventory	

GET PRODUCT DETAIL:

URL:
http://XXXX0XXX.ddns.net/XXXX0XXXWebAPI/OloService.svc/GetProductDetail/{UPCCode}

METHOD QUERY PARAMETERS:
Http method: GET

Content type: application / json -> input

Accept: application / json -> output

DESCRIPTION:
- Receive the all products inventory details. It includes the product code, color, size, product description, division, qty of inventory, season, collection, product price, pricing currency with consideration of product status, warehouse and division access to user.
- Please refer the following request and response parameters for API response.

REQUEST PARAMETERS:
- There is following request parameter for this method.

Field Name	Data Property	Description
barcode	String	Unique product code

RESPONSE PARAMETERS:
- Following will be response parameters for the API response.
- It will be in json format.

PRODUCTINVENTORYRESPONSE:

Field Name	Data Property	Description
Success	Boolean	Either is false or true.
ErrorCode	String	Error code.
ProductInvertory	List<ProductInventory>	

PRODUCTINVENTORY:

Field Name	Data Property	Description
ProductQty	Int	Quantity of the product from Inventory
UPCCode	String	Unique product code
ProductCode	String	Product individual code
ProductVersion	String	Product version information
ProductDescription	String	Description of the product
ProductDivision	String	Product division information
ProductSeason	String	Product season information
ProductCollection	String	Product collection information
ProductGroup	String	Product group information
ProductColor	String	Product color
ProductSize	String	Product size
ProductPrice	Double	Product prize
ProductCurrency	String	Product currency (CD$, US$ etc..)
CanProduceRequiredItem	Boolean	If - No: Allow to sell only stock items (B2C) If - Yes: Allow to sell unlimited quantity for that item (B2B)

CREATE ORDER:

URL:

METHOD QUERY PARAMETERS:
Http method: POST

Content type: application / json -> input

Accept: application / json -> output

DESCRIPTION:
- It will place the order in the Olotech based on required passed quantity, price and upc code.
- Order will be created in Olotech and status of order will be set based on the user preferences.
- Please refer the following request and response parameters for API response.

IMPORTANT:
- Olotech calculates the prices without taxes as taxes belongs to the individual to the company. Taxes are applied to the last price of the product so taxes are not included in any transaction.
- We can't sell the product more than the pre-defined selling price category.
- Can produce required is false means to sell only stock items and transaction is Business to customer (B2C).
- Can produce required is true means to sell unlimited quantity items and transaction is Business to Business (B2B).

REQUEST PARAMETERS:
- There is following request parameter for this method.

RESPONSE PARAMETERS:
- API will provide the Order number. This is unique reference number in Olotech for placed order.

CREATE ORDER REQUEST:

Field Name	Data Property	Description
CompanyCode	String (Required)	Company code for which company order need to place.
PurchaseOrder	String (Required)	Magento (Your) purchase order number
ShippingDate	DateTime (Required) JSON: YYYY-MM-DDT00:00:00	Shipment date for the Order B2B - it is required B2C - it is optional
ShippmentAmount	Double (Optional)	Shipping cost for the Order (Without taxes)
TotalPrice	Double (Required)	Total of the price for that Order (Without taxes)
ProductDetails	List<ProductDetails>	

PRODUCT DETAILS:

Field Name	Data Property	Description
UPCCode	String (Required)	Unique product code
Quantity	Int (Required)	Quantity of the order (items count)
Price	Double (Required)	Price of the items
CanProduceRequiredItem	Boolean (Optional)	If - No: Allow to sell only stock items (B2C) If - Yes: Allow to sell unlimited quantity for that item (B2B) ** You will get this flag from the product inventory method response

RESPONSE PARAMETERS:
- Following will be response parameters for the API response.
- It will be in json format.

CREATE ORDER RESPONSE:

Field Name	Data Property	Description
OrderNumber	String	Olotech Order number. Reference number for created order
Success	Boolean	Either is false or true.
ErrorCode	String	Error code.

ERROR CODE:

Field Name	Description
NoError	There is no error while making the request
InternalServerError	There is some error from the server
Product Not Found	There is no product exist for provided UPC
System not set to generate bar codes	There is no active UPC or UPC is not allowed
Invalid Company code	There is no company exist in Olotech for that company code.
Invalid UPC code	Invalid UPC code of the product Null or empty product code
Invalid Shipment date	Invalid shipment date for the order Null or empty order date
Invalid Product Price	Invalid price (If price is more than the selling price) Null or empty price
Invalid Can produce required Items	Null or empty value
Invalid Product quantity	No stock available for the product. 1. 'CanProduceRequiredItems' flag is true but internal status only allow to sell WIP & Stock items but not allowed to product required items means as many as quantity in Olotech and Product don't have enough stock. 2. 'CanProduceRequiredItems' flag is false but internal status only allow to sell Stock items and Product don't have enough stock.
Invalid Purchase Order	Null or empty purchase order number
Invalid Selling Price. Selling price can't less than actual price for Product: {UPCCode}	Not allowed sell the product more than the specified price. Price is invalid.
Invalid Product Work flow – Product: {UPCCode}	Product workflow(status) is not allowed to sell this product now.
Invalid Total Price.	There is mismatch between sum of pricing with individual quantity and provided total price in placing order. For example, Product X has price 10 CAD. Purchase quantity for product x is 2 and Product Y is 1 quantity with 5 CAD prices so 25 CAD is total price for this order.

Not allowed to Produce required - Product: {UPCCode}	Product status in Olotech is not allowed to sell the required items means as many as quantity. So, provided value for the 'CanProduceRequiredItems' flag must be **false** in this case.

HTTP STATUS CODE:

Field Name	Description
401	Unauthorized
200	Status ok
404	Method not found
405	Method not allowed