



Alice REST API Technical Documentation

September 2021/v 2.15

Revision 1

1. Introduction

The how and why of the API.

The Alice REST API, in short Alice REST, is used jointly with the Alice POS software in order to retrieve information from it for use by other software modules or 3rd party software.


Most requests made to the API have read-only privileges but some are also able to update and write data to the database or log files.

It is beyond the scope of this document to explain how a REST API functions or how Alice POS will react to transactions made using Alice REST. The purpose of this document is solely to be used as a reference about which transactions (and their arguments) are available and implemented with the API.

This document uses the standard glyphicons to represent portions of the text in it. Here's the complete legend.


Documentation related glyphicons

 A note in need of attention.

 A warning you should read before you proceed.

 A link to an external document.

Transaction related glyphicons.

 A transaction that can write to the database.

 An optional transaction parameter.

 A required transaction parameter.

 Possible values for a parameter.

 The return value of a transaction.

2. Transaction format

General formatting and guidelines with examples.

All transactions are sent and received using the XML 1.0 format. Numerous examples and tutorials are available on the internet but we recommend getting familiar with the official version of the format.



W3C XML 1.0 Reference

A sample request is built using the following structure

```
<request>
  <credentials>
    <apikey>API_KEY</apikey>
    <timestamp>TIME_OF_REQUEST</timestamp>
    <signatureversion>VERSION_OF_SIGNATURE</signatureversion>
    <signaturemethod>ENCRYPTION_METHOD</signaturemethod>
    <signature>REQUEST_SIGNATURE</signature>
  </credentials>
  <type>TRANSACTION_TYPE</type>
  <filters>
    <filter>
      <field>FIELD_NAME</field>
      <like>LIKE_FORMAT</like>
    </filter>
  </filters>
</request>
```

A sample response is also built in the same fashion

```
<response>
  <request>
    <credentials>
      <apikey>API_KEY</apikey>
      <timestamp>TIME_OF_REQUEST</timestamp>
      <signatureversion>VERSION_OF_SIGNATURE</signatureversion>
      <signaturemethod>ENCRYPTION_METHOD</signaturemethod>
      <signature>REQUEST_SIGNATURE</signature>
    </credentials>
    <type>TRANSACTION_TYPE</type>
    <filters>
      <filter>
        <field>FIELD_NAME</field>
        <like>LIKE_FORMAT</like>
      </filter>
    </filters>
  </request>
  RESPONSE_BLOCK
</response>
```



Each transaction response has its own structure for the RESPONSE_BLOCK. It is the return value of the computed request. The RESPONSE_BLOCK can also be an error block which contains a single <error> tag with a message in its text node.

Contents of the various RESPONSE_BLOCK are described in detail for each transaction on subsequent pages of this documentation.

2.1 Authentication

Secure transactions with the REST API

All communications with the REST API are secured with an API key and an encrypted signature key. The signature is unique to every request/response and is built with several unique values and a secret key that are encrypted with HmacSHA256. That signature is used to ensure the validity of the request/response.

Parameters

<input checked="" type="checkbox"/>	apikey (string) Unique key to every system
<input checked="" type="checkbox"/>	timestamp (timestamp) Current time and date of the request
<input checked="" type="checkbox"/>	signatureversion (integer) Which version of the signature we want to use
<input checked="" type="checkbox"/>	signaturemethod (string) Which encryption method to use
<input checked="" type="checkbox"/>	signature (string) The unique signature hash

*** Please note that the secret key is never sent in the request/response.

3.1 Date

Get the server's date and time.

Getting the database server's date can be very useful in order to synchronize or compare the client's date and time.

Parameters

<input checked="" type="checkbox"/>	type: Date (string)
-------------------------------------	---------------------

Response

	date (string) The database server's date
---	---

Example:

```
<response>
  <request>
    <type>Date</type>
  </request>
  <date format="Y-m-d H:i:s">2015-02-20 17:10:06</date>
</response>
```

3.2 Categories




















Get Alice's categories.


















Alice products are organized in a hierarchy of categories. Getting the class ID of each category can be useful in order to place products in the corresponding category tree node.

Parameters

<input checked="" type="checkbox"/>	type: Category (string)
<input type="checkbox"/>	lang (integer)(deprecated – translations are always returned) Will return categories in another language than the default.
<input type="checkbox"/>	sku (string) (id of the category) Will return the information of a specific category.
<input type="checkbox"/>	when (timestamp) - deprecated Will respond only with categories modified after the timestamp
<input type="checkbox"/>	whenmod (timestamp) Will respond only with categories modified after the timestamp.

Response

	id (string) ID of the category				
	whenmod (timestamp) Time the category was last modified.				
	ownerid (string) If the category is a child of another the parent's id will be returned				
	name (string) Name of the category.				
	namefr (string) Name of the category. French if there is one				
	nameen (string) Name of the category. English if there is one				
	namesp (string) Name of the category. Spanish if there is one				
	desc (string) Description of the category.				
	descfr (string) Description of the category. French if there is one				
	descen (string) Description of the category. English if there is one				
	descsp (string) Description of the category. Spanish if there is one				
	level (integer) The depth of the category in the hierarchy.				
	online (integer) If the category is to be displayed in an online store.				
	<table border="1"><tr><td></td><td>0 = No</td></tr><tr><td></td><td>1 = Yes</td></tr></table>		0 = No		1 = Yes
	0 = No				
	1 = Yes				

	enable (string) - deprecated If the category is enabled or not.				
	<table border="1"> <tr> <td></td> <td>t = Yes</td> </tr> <tr> <td></td> <td>f = No</td> </tr> </table>		t = Yes		f = No
	t = Yes				
	f = No				
	order (integer) The sort order of the category in the current parent, smaller is first.				
	Enable(bool)				
	<table border="1"> <tr> <td></td> <td>t = Category is active</td> </tr> <tr> <td></td> <td>f = Category is not active</td> </tr> </table>		t = Category is active		f = Category is not active
	t = Category is active				
	f = Category is not active				
	picture (string) If the category has a picture				
	picturewhen (timestamp) The last time a category picture was updated				

Example:

```

<response>      <request>
                  <type>Category</type>
                </request>
                <categories>
                  <category>
                    <id>class_442m</id>
                    <whenmod>1399052931.3327</whenmod>
                    <ownerid/>
                    <name>MISCELLANEOUS</name>
                    <desc/>
                    <level>1</level>
                    <online>1</online>
                    <order>15</order>
                    <enable>t</enable>
                    <picture>atta_70464m</picture>
                    <picturewhenmod>1496761807.63567</picturewhenmod>
                  </category>
                  ...
                </categories>
              </response>

```

3.3 Products






Get a filtered list of Alice products.

Getting products is the core of the REST API. It allows 3rd party software to display and sell Alice products in their own custom software.






















For a more detailed explanation of the Matrix specific fields, see section 5.2.

Parameters

<input checked="" type="checkbox"/>	type: Product (string)										
<input checked="" type="checkbox"/>	currency (string) (LIKE) The currency used for the pricing fields. Products can have different prices in different countries.										
	<table border="1"> <tr> <td></td> <td>cad = Canadian Dollars</td> </tr> <tr> <td></td> <td>usd = United States Dollars</td> </tr> <tr> <td></td> <td>usdz1 = United States (zone 1) Dollars</td> </tr> <tr> <td></td> <td>cop = Colombian Pesos</td> </tr> <tr> <td></td> <td>egp = Egyptian Pounds</td> </tr> </table>		cad = Canadian Dollars		usd = United States Dollars		usdz1 = United States (zone 1) Dollars		cop = Colombian Pesos		egp = Egyptian Pounds
	cad = Canadian Dollars										
	usd = United States Dollars										
	usdz1 = United States (zone 1) Dollars										
	cop = Colombian Pesos										
	egp = Egyptian Pounds										
<input type="checkbox"/>	sku (string) (LIKE) Find the product with a specific SKU (pric_###)										
<input type="checkbox"/>	parentsku (string) (LIKE) Find all if the variants of the specified SKU (pric_###)										
<input type="checkbox"/>	matrixmode (integer) (PARAM) Filter the return depending on the matrix structure										
	<table border="1"> <tr> <td></td> <td>0 = All – show parents and variants</td> </tr> <tr> <td></td> <td>1 = Parents and non-variants only</td> </tr> <tr> <td></td> <td>2 = Variants only</td> </tr> </table>		0 = All – show parents and variants		1 = Parents and non-variants only		2 = Variants only				
	0 = All – show parents and variants										
	1 = Parents and non-variants only										
	2 = Variants only										
<input type="checkbox"/>	whenmod (timestamp) (AFTER) Only products modified after the timestamp will be returned. (“when” and “whenonline” can also be used with the same result)										
<input type="checkbox"/>	name (string) (LIKE) Only products matching the name pattern will be returned.										
<input type="checkbox"/>	classid (string) (LIKE) Only products that belong to the class ID pattern will be returned. Useful for getting products from a category.										
<input type="checkbox"/>	withimage (any value) (LIKE) Only return product with an image										
<input type="checkbox"/>	upccode (string) (PARAM) Finds the product with the UPC or custom code, exact match only. A list of UPCs can also be used (separated by commas) ie (upc1,upc2,upc3)										
<input type="checkbox"/>	withinventory (any value) (deprecated if productfilter is used) Only return product with in stock										
<input type="checkbox"/>	checkonline (any value) (deprecated if productfilter is used) Removes the online validation check and returns all products										
<input type="checkbox"/>	productfilter (integer) (PARAM) Used for a more refined and clear filtering of products to be returned based on online availability state, current inventory and past activity.										
	<table border="1"> <tr> <td></td> <td>1 = All – all products regardless of status and inventory</td> </tr> </table>		1 = All – all products regardless of status and inventory								
	1 = All – all products regardless of status and inventory										

	2 = With Activity – sold or ordered even if no current inventory
	3 = With Activity Last Year –sold or ordered even if no current inventory
	4 = In-Stock – products in inventory and visible online, “In Store Only” are INCLUDED (online modes 1 and 3)
	5 = Online Only – products in inventory and visible online, “In Store Only” are EXCLUDED (online mode 1)
	6 = In Store Only – products in inventory that are available “In Store Only”. (online mode 3)


Response

	whenmod (timestamp) The time the product was last modified.
	sku (string) The product's unique SKU
	alicecode (string) The product's Alice Code (ABC#123456)
	name (string) Name of the product to be displayed to customers.
	namefr (string) Name of the product to be displayed to customers. French if it exists
	nameen (string) Name of the product to be displayed to customers. English if it exists
	namesp (string) Name of the product to be displayed to customers. Spanish if it exists
	desc (text) Product description
	descfr (text) Product description French if it exists
	descen (text) Product description English if it exists
	descsp (text) Product description Spanish if it exists
	release (timestamp) Date and time the product was or is to be released.
	ismatrixparent (boolean) Indicated that this product has variations
	parentsku (text) SKU of the product's matrix parent
	enable (boolean) If the product is enabled or not. In Alice, products are never deleted from the database, they are disabled and can be reactivated.
	t = Yes
	f = No
	taxable (boolean) Indicates if the product is taxable or not
	t = Yes
	f = No
	online (integer) If the product is to be displayed in an online store

		0 = Not visible online	
		1 = Visible online	
		3 = Visible online but only available in-store	
	sendtoecwid (boolean) Indicates that the product should be sent to the Ecwid Store (if applicable)		
	sendtopac (boolean) Indicates that the product should be sent to the PACs Store (if applicable)		
	prodseo (string) SEO as defined in Alice, should be use in the online store.		
	buynew (float) Price of the product when purchasing new. (cost)		
	buyused (float) Price of the product when purchasing used (cost)		
	sellnew (float) Price of the product when sold new		
	sellused (float) Price of the product when sold used		
	size (string) Value of the shipping size attribute (dimension for shipping calculation)		
	weight (string) Value of the shipping weight attribute (for shipping calculation)		
	platform (string) Platform of the product or parent category		
	category (string) The product's category name		
	UPC (string) deprecated - use the "upccodes" node List of UPC(s) associated with the product separated by commas		
	picture (string) If the product has a picture		
	picturewhenmod (timestamp) The last time a product picture was updated		
	variants (Node) Details of the products variations		
		variantids (SubNode)	
		variantidlist (text array) Ids (SKU) of all the product's variations	
		matrixconfig (SubNode) List of all attributes and available values for the variants	
		configoption (SubNode)	
		variant_namefr (text) Name of the attribute in French	
		variant_nameen (text) Name of the attribute in English	
		variant_namesp (text) Name of the attribute in Spanish	
		variant_id (text) Id of the attribute	
		variant_valuenamefr (text array) Name of the attribute values in French	
		variant_valuenameen (text array) Name of the attribute values in English	

			variant_valuenamesp (text array) Name of the attribute values in Spanish	
			variant_valueids (text array) Ids of all the possible values for that attribute	
	promoprice (Node)			
		promosnew (SubNode) Best promo price for new items		
		promolinkid (string) Id of the promolink		
		promoid (string) Id of the parent promotion (or sku for STA type promotions)		
		promoprice (float) Promotional price		
		promosused (SubNode) Best promo price for used items		
		promolinkid (string) Id of the promolink		
		promoid (string) Id of the parent promotion (or sku for STA type promotions)		
		promoprice (float) Promotional price		
	productspecificpromotion (Node) List the STA type promotion associated with the product			
		promolinkid (string) Id of the promolink		
		promoid (string) Id of the parent promotion (or sku for STA type promotions)		
		productstate (integer) <ul style="list-style-type: none"> 0 = All 1 = New 2 = Used 		
		trigger (integer) Event that trigger the promotion, always 0 – Sales for STA		
		action (integer) How the promotion will be applied – always 0 – Fixed Price for STA		
		actionvalue (text) Value to be used when applying the promotion, promo price for STA		
		requiredqty (integer) Number of items required to make the promotion applicable		
		startdate (timestamp) Date and time at which the promo will be applicable		
		enddate (timestamp) Date and time the promotion is no longer applicable		
	upccodes (Node)			
		upcclassid (string) Id of the upc code's class (type)		
		upcvalue (string) Value of the UPC Code – can be used to search for the product		
	inventoryqty (Node) Returns quantities for the target store or all the stores linked to the master			

	qtynew (float) Total quantity of new items.						
	qtyused (float) Total quantity of used items.						
	qtyonlnew (float) Total quantity of new items available online.						
	qtyonlused (float) Total quantity of used items available online.						
	qtyrentonlu (float) Total quantity of items flagged as rentonly.						
	Product Attributes Products can have multiples attributes						
	name (string) The name of the attribute						
	namefr (string) The name of the attribute French if it exists						
	nameen (string) The name of the attribute English if it exists						
	namesp (string) The name of the attribute Spanish if it exists						
	inputtype (integer) The type of attribute						
	<table border="1"> <tr> <td></td> <td>0 = Manual input</td> </tr> <tr> <td></td> <td>1 = Single selection from a list</td> </tr> </table>		0 = Manual input		1 = Single selection from a list		
	0 = Manual input						
	1 = Single selection from a list						
	id (string) The identifier of the attribute						
	classid (string) The id of the parent attribute						
	sellable (boolean) Indicate if the attribute can be sold (See Section 5.1)						
	mandatorysell (boolean) Indicates if the attribute Must be sold with the product						
	applicationzone (string) Indicates the zone for which the attribute can be sold						
	productstate (integer) Some sellable attributes might only be sellable for certain state of product						
	<table border="1"> <tr> <td></td> <td>0 = Both New and Used</td> </tr> <tr> <td></td> <td>1 = Only New</td> </tr> <tr> <td></td> <td>2 = Only Used</td> </tr> </table>		0 = Both New and Used		1 = Only New		2 = Only Used
	0 = Both New and Used						
	1 = Only New						
	2 = Only Used						
	value (string) The attribute value						
	valueid (string) The id of the value, for single selection inputtype						
	valuenam (string) Name of the attribute's value, for single selection inputtype						
	valuenamfr (string) Name of the attribute's value, for single selection inputtype French if it exists						
	valuenamen (string) Name of the attribute's value, for single selection inputtype English if it exists						
	valuenamesp (string) Name of the attribute's value, for single selection inputtype Spanish if it exists						

		valueprice (string) Value of the attribute's value , for single selection inputtype
--	---	--

Example:

```
<response>
  <request>
    <type>Product</type>
    <filters>
      <filter>
        <field>currency</field>
        <like>cad</like>
      <filter>
      <filter>
        <field>sku</field>
        <like>pric_132</like>
      <filter>
      <filter>
        <field>productfilter</field>
        <param>1</param>
      <filter>
    </filters>
  </request>
```

```

<count>1</count>
  <products>
    <product>
      <whenmod>1558653924.8301</whenmod>
      <sku>pric_132</sku>
      <alicecode>ABD#123456</alicecode>
      <name>Test Attribute</name>
      </desc>
      </release>
      <ismatrixparent>f</ismatrixparent>
      <parentsku>pric_32</parentsku>
      <released>t</released>
      <enable>t</enable>
      <taxable>t</taxable>
      <online>1</online>
      <sendtoecwid>f</sendtoecwid>
      <sendtopac>f</sendtopac>
      </prodseo>
      <buynew>5</buynew>
      <buyused>0</buyused>
      <sellnew>10</sellnew>
      <sellused>5</sellused>
      <size>2-4-5</size>
      <weight>5</weight>
      <platform>Batteries</platform>
      <category>Batteries</category>
      <categoryid>class_27m</categoryid>
      <upc>012345678912,TS-001</upc>
      <picture>atta_25</picture>
      <picturewhenmod>1480961159.46675</picturewhenmod>
      <variants> NODE
      <promoprice> NODE
      <upccodes>
        <upccode>
          <upcclassid>class_123</upcclassid>
          <upcvalue>012345678912</upcvalue>
        </upccode>
        <upccode>
          <upcclassid>class_134</upcclassid>
          <upcvalue>TS-001</upcvalue>
        </upccode>
      </upccodes>
      <attributes>
        <attribute>
          <name>Eco Frais Qc</name>
          <inputtype>1</inputtype>
          <id>info_4705</id>
          <classid>class_96</classid>
          <sellable>t</sellable>
          <mandatorysell>t</mandatorysell>
          <applicationzoneid>class_100</applicationzoneid>
          <productstate>0</productstate>
          <value>TV 21 pouce</value>
          <valueid>class_98</valueid>
          <valuenam>TV 21 pouce</valuenam>
          <valueprice>5</valueprice>
        </attribute>
      </attributtes>
    </product>
    ...
  </products>
</response>

```

3.4 Images

Alice support multiple images for products, categories and multiple logos. For legacy purposes we kept the old single image request which returns the image with display order = 0.

3.4.1 Single Image









Get the primary image

Retrieves the primary image of the target (product, category, logo)

Parameters

<input checked="" type="checkbox"/>	type: Image (string)
<input type="checkbox"/>	sku (string) Only product images matching the SKU pattern will be returned (Sku can be the company id (comp_1) for logos or category id (class_XXX))
<input type="checkbox"/>	name (string) Only product images matching the name pattern will be returned

Response

	id (string) The unique id of the image
	sku (string) The unique id of the image owner
	name (string) The name of the image file
	desc (string) Description of the image entered in Alice
	filesize (string) Size of the image
	whenmod (timestamp) Timestamp of the last image modification
	imageseo (string) SEO information defined for the image in Alice
	url (string) The URL of the product's image

Example:

```
<response>
  <request>
    <type>Image</type>
    <filters>
      <filter>
        <field>sku</field>
        <like>pric_1001</like>
      </filter>
    </filters>
  </request>
  <count>1</count>
  <products>
    <product>
      <id>atta_23</id>
      <sku>pric_1001</sku>
      <name>AG2003.jpg</name>
      </desc>
      <filesize>pric_10012m</filesize>
      <whenmod>2018-08-15 09:35:54.45178-04</whenmod>
      </imageseo>
      <url>http://website.com/path/1001_23.jpg</url>
    </product>
    ...
  </products>
</response>
```


3.4.2 Multiple Images












Get all of the images associated with the target

Retrieves all of the images associated to the target, they are group by owner for clarity where retrieving images for multiple owners.

Parameters

<input checked="" type="checkbox"/>	type: MultiImage (string)
<input type="checkbox"/>	sku (string) Only product images matching the SKU pattern will be returned (Sku can be the company id (comp_1) for logos or category id (class_XXX))
<input type="checkbox"/>	name (string) Only product images matching the name pattern will be returned

Response

	imagecount (integer) Number of images associated with the owner
	sku (string) The unique id of the image owner
	images (node) List of images associated with the owner
	 id (string) The unique id of the image
	 name (string) The name of the image file
	 displayorder (integer) Order the images should be displayed in (0 based)
	 desc (string) Description of the image entered in Alice
	 filesize (string) Size of the image
	 whenmod (timestamp) Timestamp of the last image modification
	 imageseo (string) SEO information defined for the image in Alice
	 url (string) The URL of the product's image

Example:

```
<response>
  <request>
    <type>MultiImage</type>
    <filters>
      <filter>
        <field>sku</field>
        <like>pric_1001</like>
      </filter>
    </filters>
  </request>
  <count>2</count>
  <products>
    <product>
      <imagecount>2</imagecount>
      <sku>pric_1001</sku>
      <images>
        <image>
          <id>atta_23</id>
          <name>AG2003.jpg</name>
          <displayorder>0</displayorder>
          </desc>
          <filesize>9699</filesize>
          <whenmod>2018-08-15 09:35:54.45178-04</whenmod>
          </imageseo>
          <url>http://website.com/path/1001_23.jpg</url>
        </image>
        <image>
          <id>atta_24</id>
          <name>AG2006.jpg</name>
          <displayorder>1</displayorder>
          </desc>
          <filesize>10042</filesize>
          <whenmod>2019-07-16 13:21:45.5874-04</whenmod>
          </imageseo>
          <url>http://website.com/path/1001_24.jpg</url>
        </image>
      </images>
    </product>
  </products>
</response>
```

3.5 Inventory










Get the various inventory values for products.

Returns the current number of items in inventory, this request can be limited to a single store or expanded to an entire network depending on access. The inventory numbers are ventilated.

Parameters

<input checked="" type="checkbox"/>	type: Inventory (string)
<input type="checkbox"/>	sku (string) Return the inventory count values for the product(s) using a SKU (pric_123)
<input type="checkbox"/>	name (string) Return the inventory counts of the product matching the name pattern.
<input type="checkbox"/>	group (string) Get product inventory for a specific group
<input type="checkbox"/>	system (string) Get the inventory for a specific Alice system (or store)
<input type="checkbox"/>	when (timestamp) Only products modified after the timestamp will be returned. (“when” and “whenonline” can also be used with the same result)

Response

	sku (string) The unique SKU of the product
	system (string) The ID of the system the inventory is for or ALL for a total count when not specified – since Alice manages multi-store networks
	group (string) The ID of the inventory group
	qtynew (integer) Number of new products
	qtyused (integer) Number of used products
	qtyonlnew (integer) Number of new products available online (excludes items on customer order)
	qtyonlused (integer) Number of used products available online (excludes items on customer order)
	qtyrentonly (integer) Number of products available for rent
	when (datetime) Tiemstamp of when the inventory was last updated for this product

Example:

```
<response>
  <request>
    <type>Inventory</type>
    <filters>
      <filter>
        <field>sku</field>
        <like>pric_10012m</like>
      </filter>
    </filters>
  </request>
  <products>
    <product>
      <sku>pric_10012m</sku>
      <system>ALL</system>
      <group>group_1</group>
      <qtynew>0</qtynew>
      <qtyused>1</qtyused>
      <qtyonlnew>0</qtyonlnew>
      <qtyonlused>0</qtyonlused>
      <qtyrentonly>0</qtyrentonly>
      <when>2015-02-17 13:35:35.271955-05</when>
    </product>
    ...
  </products>
</response>
```

3.6 Promotions

Get the promotion details and information.

Get the Alice promos and the list of products that are associated to the promotions. The response also lists the details about the triggers and actions to take when a promo needs to be applied.















There are 5 promotion actions in Alice, here is the way they affect the individual item price:

- Fixed Price: product price = actionvalue
- Discount Price: product price = price * (1 - (actionvalue/100))
- Bonus Percent: product buy price = price * (1 + (actionvalue/100)) (this is to buy items at an higher price for trade-ins)
- Cost Percent: product price = cost * (1 + (actionvalue/100))
- Cost Amount: product price = cost + actionvalue

Parameters

None

Response for promo node

	id (string) Identifier of the promo
	name (string) Name of the promo
	namefr (string) Name of the promo French if it exists
	nameen (string) Name of the promo English if it exists
	namesp (string) Name of the promo Spanish if it exists
	startdate (timestamp) Start Date and time of the promo
	enddate (timestamp) End date and time of the promo
	when (timestamp) Creation date of promo
	whenmod (timestamp) The time when the promo was last modified
	ownerid (string)
	 Empty = Everybody  classid = Contact type or company type (currently not sent to the API)
	promotype (integer)
	 0 = All

	<ul style="list-style-type: none"> ☐☐☐☐☐ 1 = General ☐☐☐☐☐ 2 = Contact type (currently not sent to the API) ☐☐☐☐☐ 3 = Company type (currently not sent to the API) ☐☐☐☐☐ 4 = Membership (currently not sent to the API)
↗	<p>online (integer) Scope of the promos</p>
	<ul style="list-style-type: none"> ☐☐☐☐☐ 0 = Store only (currently not sent to the API) ☐☐☐☐☐ 1 = Web only ☐☐☐☐☐ 2 = Web and in store
↗	<p>status (integer) The status of the promo</p>
	<ul style="list-style-type: none"> ☐☐☐☐☐ 0 = Inactive ☐☐☐☐☐ 1 = Ongoing ☐☐☐☐☐ 2 = Upcoming ☐☐☐☐☐ 3 = Expired
↗	<p>promolinks (see next section) List of products that the promo applies to</p>































Example:



```

<promos>
  <promo>
    <id>promo_4</id>
    <name>Test Promo</name>
    <startdate>2019-05-24 08:00:00-04</startdate>
    <enddate/>
    <when>2019-05-24 11:57:13.416014-04</when>
    <whenmod>2019-05-24 11:57:13.416016-04</whenmod>
    <ownerid/>
    <promotype>1</when>
    <online>2</when>
    <status>1</status>
    <promolinks>
      *** SEE NEXT SECTION FOR PROMOLINKS NODE EXAMPLE ***
    </promolinks>
  </promo>
</promos>

```

Response for Promolink Child Node in Promo

	promolinkid (string) The ID of the promolink.
	promoid (string) The ID of the promo that the promolink is associated with.
	ownerid (string) The type of item the promo applies to.
	<ul style="list-style-type: none">  pric_* = applies to a product  class_* = applies to a category or services  empty = applied to all the inventory  plink_* = applies to promolinkid (in that case check the next node (productid) to see on what it is applied.
	productid (string)
	productstate (integer)
	<ul style="list-style-type: none">  0 = All  1 = New  2 = Used
	trigger (integer)
	<ul style="list-style-type: none">  0 = Sale  1 = SubPromo (plink_) If a SubPromo get the parent promo data (requiredqty, Ownerid, trigger, ProductState)  2 = Purchase
	action (integer)
	<ul style="list-style-type: none">  0 = Fixed price  3 = Discount price  4 = Bonus percent  5 = Cost percent  6 = Cost amount
	actionvalue (float) The value or percentage to apply depending on the action
	promocode (string) (Not currently supported)
	promocodeonly (boolean) (Not currently supported)
	requiredqty (integer) Required quantity for the promo to be applied
	allinventory (boolean) The action applies the complete inventory
	promocondition (boolean) If true, then needs to check the ownerid(promolinkid) to get the action to apply.
	promotype (integer)
	<ul style="list-style-type: none">  0 = All

	<p>1 = General</p> <p>2 = Contact type (currently not sent to the API)</p> <p>3 = Company type (currently not sent to the API)</p> <p>4 = Membership (currently not sent to the API)</p>
	<p>promoownerid (string)</p> <p>If the promo is associated with a contact type, company type or Membership (currently not sent to the API)</p>

Example: (10% discount when pric 73 is sold)

```

<promos>
  <promo>
    *** SEE PREVIOUS SECTION FOR PROMO NODE EXAMPLE ***
    <promolinks>
      <promolinkid>plink_4</promolinkid>
      <promoid>promo_4</promoid>
      <ownerid>pric_73</ownerid>
      <productid/>
      <productstate>0</productstate>
      <trigger>0</trigger>
      <action>3</action>
      <actionvalue>10</actionvalue>
      <promocode/>
      <promocodeonly>f</promocodeonly>
      <requiredqty>1</requiredqty>
      <allinventory>f</allinventory>
      <promocondition>f</promocondition>
      <promotype>1</promotype>
      <promoownerid/>
    </promolinks>
  </promo>
</promos>

```


3.7 Tax







Get the tax details.

Getting tax details is useful for posting transactions using the API or to sync them with an online store.

Parameters

None

Response

	taxclassid (string) Unique tax ID from Alice
	taxname (string) The tax rate's name
	taxnamefr (string) The tax rate's name in French if it exists
	taxnameen (string) The tax rate's name in English if it exists
	taxnamesp (string) The tax rate's name in Spanish if it exists
	taxrate (float) The tax rate (5 = 5%)

Example:

```
<taxes>
  <tax>
    <taxclassid>class_12</taxclassid>
    <taxname>TVQ</taxname>
    <taxrate>9.975</ratxrate>
  </tax>
  <tax>
    <taxclassid>class_11</taxclassid>
    <taxname>TPS</taxname>
    <taxrate>5</taxrate>
  </tax>
</taxes>
```

3.8 System Application Zone



Get the system's application zone, for sellable attributes.

Required to determine if a sellable attribute must be added to the invoice.

Parameters

None

Response

	systemid (string) Id of the system to which the request was sent
	applicationzoneid (string) System application zone class id

Example:

```
<applicationzone>
  <zone>
    <systemid>sys_865</systemid>
    <applicationzoneid>class_100</applicationzoneid>
  </zone>
</applicationzone>
```

3.9 Application Zone List






Get the application zone list.

The list of all application zones on the system could be used to match it with a website customer's location for province/state/region specific sellable attribute (ie. electronics or tires environmental fees).

Parameters

None

Response

	zoneclassid (string) Unique application zone ID from Alice
	zonename (string) The application zone's name
	zonenamefr (string) The application zone's name in French if it exists
	zonenameen (string) The application zone's name in English if it exists
	zonenamesp (string) The application zone's name in Spanish if it exists

Example:

```
<applicationzone>
  <zone>
    <zoneclassid>class_100</zoneclassid>
    <zonename>Zone 1</zonename>
  </zone>
  <zone>
    <zoneclassid>class_101</zoneclassid>
    <zonename>Zone 2</zonename>
  </zone>
</applicationzone>
```

3.10 Accounting Posting (GLExportData)

Get the date for a general ledger writing.

Returns the raw data from the "Accounting Posting" report in Alice. This can be used to create a general ledger entry in a third party accounting application for the specified period. The field description includes the formula used for calculated value and if values are combined in the report (ie expectedinventoryend and stockcountinv(added/deleted)).










Parameters

























<input checked="" type="checkbox"/>	start: (date) – Format (YYYY-MM-DD) Day the period of the report begins
<input checked="" type="checkbox"/>	end (date) – Format (YYYY-MM-DD) Day the period of the report ends























Request Example


















```
<response>
  <request>
    <type>GLExportData</type>
    <filters>
      <filter>
        <field>start</field>
        <param>2019-06-01</param>
      </filter>
      <filter>
        <field>end</field>
        <param>2019-06-15</param>
      </filter>
    </filters>
  </request>
</response>
```


















































Response








	tax collected (float) Total tax collected
	productsales (float) Total product sales
	servicesales (float) Total service sales
	attributesales (float) Total saleable attributes sales
	membershipsales (float) Total membership sales
	rentals (float) Total rental fees collected
	product refund (float) Total value of refunded product (amount refunded to customer)
	servicerefund (float) Total value of refunded services (amount refunded to customer)
	attributerefunds (float) Total value of refunded saleable attributes (amount refunded to customer)

	inventorystart (float) Value of the inventory at the beginning of the period
	inventoryend (float) Value of the inventory at the end of the period
	supplierpurchase (float) Amount purchased from suppliers
	suppliershipping (float) Shipping paid on supplier purchases
	tradeins (float) Value of traded in items (items exchanged by a customer as payment - added to inventory)
	inventoryretrieval (float) Value of items received from a linked store in the same network (inter-store transfers)
	cogs (float) – Calculated Value Cost Of Goods Sold - Deprecated $\text{Inventortstart} + (\text{stockcountinvadded} - \text{stockcountinvdeleted}) + \text{supplierpurchase} + \text{suppliershipping} + \text{tradeins} + \text{inventoryretrieval} - \text{inventoryend}$
	cogsclean (float) – Calculated Value Cost Of Goods Sold – Value used in the report $\text{productsalescost} + \text{producttransfercost}$
	giftcardissued (float) Value of giftcard issued to customer - sold in invoices
	giftcardtaken (float) Value of giftcard used as payment in invoices
	manualgiftcardissued (float) Value of giftcard manually created in the system – not sold in invoices as giftcards
	manualgiftcardtaken (float) Value of giftcard reduced manually with the system’s tool - not used as payment
	issuedcredit (float) Store credit given to customer as refund
	takencredit (float) – Not displayed, used in calculations Store credit used by customer as payment
	finalizedtakendeposit (float) – Not displayed, used in calculations Deposit on order/repair that were finalized during the period
	issueddeposit (float) Deposit added to an order/repair during the period
	paymodetakendeposit (float) Deposit on order/repair that are have been refunded
	manualcreditissued (float) Store credit increased manually
	manulcredittaken (float) Store credit reduced manually
	roundedamount (float) Sum of all rounding of cash payments by the penny rounding feature
	takenchargetoaccount (float) Payments made to a customer’s creditline
	issuedchargetoaccount (float) Invoice charged to a customer’s creditline
	takendebitfromaccount (float) Payment made to a customer’s creditline with a credited invoice
	issueddebitfromaccount (float) Invoice credited to a customer’s creditline

	consignmentpayment (float) Amount paid to customer's for their sold consignments
	stockcountinvadded (float) Value of items added to inventory during stockcount(s)
	stockcountinvdeleted (float) Value of items removed from inventory during stockcount(s)
	deletedinventory (float) Total value of items deleted from inventory (includes stockcountinvdeleted) Display Line "Deleted Inventory" = deletedinventory - stockcountinvdeleted
	customservice (float) Total service sold that will be included in the calculation of the custom margin
	cashback (float) Sum of payment made to customer (winning lottery tickets)
	customservicerefunds (float) Total service refunded that will be included in the calculation of the custom margin
	depositstart (float) Total value deposit at the beginning of the period
	depositend (float) Total value deposit at the end of the period
	giftcardstart (float) Total value of giftcards at the beginning of the period
	giftcardend (float) Total value of giftcards at the end of the period
	creditstart (float) Total value of store credit at the beginning of the period
	creditend (float) Total value of store credit at the end of the period
	receivablestart (float) Total value of account receivable (creditline) at the beginning of the period
	receivableend (float) Total value of account receivable (creditline) at the end of the period
	incomes (float) – Calculated Value Total gross income productsales + servicesales + attributesales + membershipsales + rentals – cashback – productrefund – servicerefund - attributerefunds
	grossprofit (float) – Calculated Value Gross profit margin in currency – Deprecated incomes – cogs – servicecost
	grossprofitpercent (float) – Calculated Value Gross profit margin, as percentage – Deprecated (grossprofit/incomes) x 100
	grossprofitclean (float) – Calculated Value Gross profit margin in currency incomes – cogsclean – servicecost
	grossprofitpercentclean (float) – Calculated Value Gross profit margin as percentage (grossprofitclean/incomes) x 100
	customincomes (float) – Calculated Value Total gross income, excludes services flagged as "excluded from gross margin" in Alice productsales + customservice + attributesales + membershipsales + rentals – cashback – productrefund – customservicerefunds – attributerefunds
	customgrossprofit (float) – Calculated Value

	Gross profit margin in currency, excludes services flagged as “excluded from gross margin” in Alice – Deprecated $customincomes - cogs - customservicecost$
	customgrossprofitpercent (float) – Calculated Value Gross profit margin, as percentage, excludes services flagged as “excluded from gross margin” in Alice – Deprecated $(customgrossprofit/customincomes) \times 100$
	customgrossprofitclean (float) – Calculated Value Gross profit margin in currency, excludes services flagged as “excluded from gross margin” in Alice $customincomes - cogsclean - customservicecost$
	customgrossprofitpercentclean (float) – Calculated Value Gross profit margin as percentage, excludes services flagged as “excluded from gross margin” in Alice $(customgrossprofitclean/customincomes) \times 100$
	takendeposit (float) – Calculated Value Total taken deposit Used to display line “Taken Order Deposit” $finalizedtakendeposit + paymodetakendeposit$
	servicecost (float) Cost of services sold
	customservicecost (float) Cost of services sold, excluded services flagged as “excluded from gross margin” in Alice
	taxpaid (float) Taxes paid on supplier purchase
	expectedinventoryend (float) – Calculated Value Expected value of the inventory at the end of the period, based on start inventory and other inventory variations. Used in turn to calculate inventory movement $inventorystart + (inventorycreated - stockcountinvadded) + costadjustment + supplierpurchase + tradeins + inventoryretrieval + (stockcountinvadded - stockcountinvdeleted) + productrefundcost - cogsclean - (deletedinventory - stockcountinvdeleted)$
	costadjustment (float) Inventory variation caused by manual cost adjustments or pricechanges
	inventorycreated (float) – Used in calculation only Value of inventory added not with a purchase (refund, tradeins and consignment)
	producttransfersales (float) Value of products transferred to a linked store in the same network (inter-store transfer)
	producttransfercost (float) Cost of products transferred to a linked store in the same network (inter-store transfer) Used to calculate the COGS
	productsalescost (float) Cost of product sold
	canceledsalesadjust (float) Adjustment for canceled sales – Deprecated
	cancelerpurchaseadjust (float) Adjustment for canceled purchases - Deprecated
	cancelerefundadjust (float) Adjustment for canceled refunds – Deprecated
	inventorymovement (float)

	Delta between the expected and calculated inventory at the end of the period based on the calculated stats generated at the end of each day												
	<p>canceledissuedcredit (float) Value of store credit issued in an invoice that was canceled during the period</p>												
	<p>canceledtakencredit (float) Value of store credit taken as payment in an invoice that was canceled during the period</p>												
	<p>canceledpreviouscredit (float) Value of store credit issued or taken outside the period but for which the invoice was canceled during the period Used to adjust the value of cancelissuedcredit or canceledtakencredit based on the delta</p>												
	<p>prepaidcardissued (float) Value of prepaid cards issued during the period</p>												
	canceledissuedgiftcard (float) – Deprecated												
	canceledtakengiftcard (float) – Deprecated												
	canceledpreviousgiftcard (float) – Deprecated												
	Paymodedata (Node)												
	<p>paydetails (sub-node)</p> <table border="1"> <tr> <td></td> <td> <p>paymode (string) Name of the payment mode as displayed in Alice</p> </td> </tr> <tr> <td></td> <td> <p>paymodeissueddeposit (float) Amount of deposit made with the payment mode (included in issueddeposit)</p> </td> </tr> <tr> <td></td> <td> <p>paymodetakendeposit (float) Amount of deposit refunded during the period with the payment mode (included in paymodetakendeposit and finalizedtakendeposit)</p> </td> </tr> <tr> <td></td> <td> <p>paymodeissuedcredit (float) Amount of credit issued with the payment mode, only for credit payment mode (included in issued credit)</p> </td> </tr> <tr> <td></td> <td> <p>paymodetakencredit (float) Amount of credit taken as payment with the payment mode, only for credit payment mode (included in issued credit)</p> </td> </tr> <tr> <td></td> <td> <p>paymodetotal (float) Total amount collected for that payment mode</p> </td> </tr> </table>		<p>paymode (string) Name of the payment mode as displayed in Alice</p>		<p>paymodeissueddeposit (float) Amount of deposit made with the payment mode (included in issueddeposit)</p>		<p>paymodetakendeposit (float) Amount of deposit refunded during the period with the payment mode (included in paymodetakendeposit and finalizedtakendeposit)</p>		<p>paymodeissuedcredit (float) Amount of credit issued with the payment mode, only for credit payment mode (included in issued credit)</p>		<p>paymodetakencredit (float) Amount of credit taken as payment with the payment mode, only for credit payment mode (included in issued credit)</p>		<p>paymodetotal (float) Total amount collected for that payment mode</p>
	<p>paymode (string) Name of the payment mode as displayed in Alice</p>												
	<p>paymodeissueddeposit (float) Amount of deposit made with the payment mode (included in issueddeposit)</p>												
	<p>paymodetakendeposit (float) Amount of deposit refunded during the period with the payment mode (included in paymodetakendeposit and finalizedtakendeposit)</p>												
	<p>paymodeissuedcredit (float) Amount of credit issued with the payment mode, only for credit payment mode (included in issued credit)</p>												
	<p>paymodetakencredit (float) Amount of credit taken as payment with the payment mode, only for credit payment mode (included in issued credit)</p>												
	<p>paymodetotal (float) Total amount collected for that payment mode</p>												
	Taxdata (Node)												
	<p>taxdetails (sub-node)</p> <table border="1"> <tr> <td></td> <td> <p>taxname (string) Name of the tax as displayed in Alice (and returned by the Tax Request)</p> </td> </tr> <tr> <td></td> <td> <p>taxtotal (float) Amount collected for that tax (included in taxcollected)</p> </td> </tr> </table>		<p>taxname (string) Name of the tax as displayed in Alice (and returned by the Tax Request)</p>		<p>taxtotal (float) Amount collected for that tax (included in taxcollected)</p>								
	<p>taxname (string) Name of the tax as displayed in Alice (and returned by the Tax Request)</p>												
	<p>taxtotal (float) Amount collected for that tax (included in taxcollected)</p>												
	<p>ventilateddata (Node) Sales/Refund/Cost totals ventilated by account number</p>												
	<p>accounts (sub-node)</p> <table border="1"> <tr> <td></td> <td> <p>accountnumber (string) Account number assigned to the products or categories</p> </td> </tr> <tr> <td></td> <td> <p>productsales (float) Total product sales</p> </td> </tr> <tr> <td></td> <td> <p>productrefund (float) Total product refunds</p> </td> </tr> <tr> <td></td> <td> <p>productrefundcost (float) Total cost of refunded products</p> </td> </tr> </table>		<p>accountnumber (string) Account number assigned to the products or categories</p>		<p>productsales (float) Total product sales</p>		<p>productrefund (float) Total product refunds</p>		<p>productrefundcost (float) Total cost of refunded products</p>				
	<p>accountnumber (string) Account number assigned to the products or categories</p>												
	<p>productsales (float) Total product sales</p>												
	<p>productrefund (float) Total product refunds</p>												
	<p>productrefundcost (float) Total cost of refunded products</p>												

			productcost (float) Total cost of sold	
			servicesales (string) Total service sales	
			servicerefund (float) Total service refunds	
			servicecost (float) Total cost of service sold	
			customservicesales (string) Total service sales (the ones not excluded from gross margin)	
			customservicerefunds (float) Total service refunds (the ones not excluded from gross margin)	
			customservicecost (float) Total cost of service sold (the ones not excluded from gross margin)	

3.11 Services



















Get Alice's services


This returns all the services in the store. Services are a special type of products in Alice which do not have inventory. Examples are protection services, fishing licenses, repair fees and room rentals.

Parameters

None

Response

	serviceid (string) Id to be used as the service's sku when it is added to an order
	servicename (string) Name of the service
	servicenamefr (string) Name of the service in French if it exists
	servicenameen (string) Name of the service in English if it exists
	servicenamesp (string) Name of the service in Spanish if it exists
	servicetype (integer) Type of the service
	<ul style="list-style-type: none"> 8 = General 18 = Repair – applicable on repair invoices 19 = Protection – aka "Service plan"
	serviceprice (float) Retail price of the service
	taxexempt (bool) Indicates that the service is taxable or not
	picture (string) Id fo the image linked to the service
	servicecatid (string) Id of the service's category
	servicecatname (string) Name of the service's category
	protectionrange (node) Protection services prices can be set based on the price of the product on which they are applied.
	<ul style="list-style-type: none"> range<ul style="list-style-type: none"> rangefrom (float) Bottom end of the price range rangeto (float) Upper end of the price range

		 price (float) Retail price of the protection service if the related product's price is in the range.
--	--	---

3.12 Shipping Size and Weight (ShippingAttributes)





Get the classid and name of the shipping attributes (size and weight)

The dimension and weight of the product can be used to determine exact shipping cost using delivery services plugins. This request retrieves the attribute's details that were configured in Alice by the store owner. Specific product size and weight are returned on new fields in the product response and included in the product's attributes list.

Parameters

None

Response

	sizeclassid (string) Unique Id of the size attribute
	sizename (string) Name given to the size attribute in the store's system
	weightclassid (string) Unique Id of the weight attribute
	weightname (string) Name given to the weight attribute in the store's system

Example:

```
<shippingattributes>
  <details>
    <sizeclassid>class_112</sizeclassid>
    <sizename>Dimension (W-L-H)</sizename>
    <weightclassid>class_114</weightclassid>
    <weightname>Weight (lbs)</weightname>
  </details>
</shippingattributes>
```

3.13 UPCList






Get the classid and name of all active UPC Code Types

Alice supports multiple codes for the same product, while they are called UPC for simplicity, they can be in any format, this returns the list of all the available UPC Type and their names.

Parameters

None

Response

	upcclassid (string) Unique Id of the upc code type
	upcname (string) Name given to the upc code type in the store's system
	upcnamesp (string) Name given to the upc code type in the store's system (French)
	upcnameen (string) Name given to the upc code type in the store's system (English)
	upcnamesp (string) Name given to the upc code type in the store's system (Spanish)

Example:










```
<upclist>
  <details>
    <upcclassid>class_112</upcclassid>
    <upcname>Supplier Code</upcname>
  </details>
  <details>
    <upcclassid>class_1354</upcclassid>
    <upcname>UPC #1</upcname>
  </details>
</upclist>
```

3.14 Entity List












Get the list of contacts and companies in Alice

Request that returns the name, creditline values and contact information of the clients. In Alice we separate them in contact for individuals and companies for legal entities.

Parameters

<input type="checkbox"/>	mode (integer) --- PARAM The currency used for the pricing fields. Products can have different prices in different countries.						
	<table border="1"><tr><td></td><td>0 = All – Contacts and Companies</td></tr><tr><td></td><td>1 = Contacts only</td></tr><tr><td></td><td>2 = Companies only</td></tr></table>		0 = All – Contacts and Companies		1 = Contacts only		2 = Companies only
	0 = All – Contacts and Companies						
	1 = Contacts only						
	2 = Companies only						
<input type="checkbox"/>	lastsync (datetime) – Format (YYYY-MM-DD HH:MM:SS) --- PARAM Date time from which the data will be grabbed. To get only modified contacts						

Response

	entityid (string) The unique id of the client
	entitymode (string) Indicates if it's a contact or company
	entityname (string) Name of the client
	entitytypeid (string) Id of the client's type, can be used for certain promotions.
	entityphone (string) Client's phone number, can be empty. (123) 456-7890
	entityemail (string) Client's email, can be empty.
	entitywebsite (string) Client's website, can be empty
	entitylongaddress (string) Client's address, long format (street, city, state, country, postal code)
	entityshortaddress (string) Client's street address.
	entitycreditbalance (float) Client's current available credit.
	entitycreditlimit (float) Client's credit line limit.

Example:

```
<response>
  <request>
    <type>EntityList</type>
    <filters>
      <filter>
        <field>mode</field>
        <param>2</param>
      </filter>
    </filters>
  </request>
  <entitylist>
    <entity>
      <entityid>cont_1</entityid>
      <entitymode>contact</entitymode>
      <entityname>John Doe</entityname>
      <entitytypeid>class_1m</entitytypeid>
      <entityphone>(123) 555-1234</entityphone>
      <entityemail>j.doe@test.ca</entityemail>
      <entitywebsite/>
      <entitylongaddress>123 Main st, Sometown, Somestate,
HOHOHO</entitylongaddress>
      <entityshortaddress>123 Main st</entityshortaddress>
      <creditlinebalance>1988.45</creditlinebalance>
      <creditlinelimit>2500</creditlinelimit>
    </entity>
    ...
  </entitylist>
</response>
```

3.15 Promotion Ended



Get the Alice codes for all products for which a promotion has ended

Request that returns an array containing the Alice codes for all products for which a promotion has ended since the timestamp passed as parameter.

Parameters

<input checked="" type="checkbox"/>	start (datetime) – Format (YYYY-MM-DD HH:MM:SS) --- PARAM Date time from which the data will be grabbed. To get only modified contacts
-------------------------------------	---

Response

	promoendednew->alicecodes (array of string) Alice codes of the products for which a promotion on the NEW state has ended
	promoendedused->alicecodes (array of string) Alice codes of the products for which a promotion on the USED state has ended

Example:

```
<response>
  <request>
    <type>EntityList</type>
    <filters>
      <filter>
        <field>mode</field>
        <param>2</param>
      </filter>
    </filters>
  </request>
  <data>
    <promoendednew>
      {PRE#123456,PRE#654678}
    </promoendednew>
  </data>
  </data>
  <data>
    <promoendedused>
      {PRE#784512,PRE#123456}
    </promoendedused>
  </data>
</response>
```


4.1 Transaction

Transaction/order creation.






Creates transaction in Alice. Also creates a customer if it doesn't already exist.

IMPORTANT: This request writes data into the store's database. Do not perform test on a production version of the store.

IMPORTANT: This request must only be sent to a store, never a master or submaster.

IMPORTANT: Online transactions require a specific configuration in Alice POS, these can be found in the "Web Site" tab of the Alice settings menu. Consult <https://support.alicepos.com/en/knowledge-base/how-to-link-alice-pos-to-your-online-store/> for more details.

Parameters




















<input checked="" type="checkbox"/>	type: Transaction_Add (string)			
<input checked="" type="checkbox"/>	scheme Order scheme			
<input checked="" type="checkbox"/>	order Order information			
<input type="checkbox"/>	id (string) Unique order ID from an online store			
<input checked="" type="checkbox"/>	currency (string) Order currency			
		CAD = Canadian Dollars		
		USD = United States Dollars		
		USDZ1 = United States (zone 1) Dollars		
		COP = Colombian Pesos		
		EGP = Egyptian Pounds		
<input checked="" type="checkbox"/>	discount_total (float) Discount applied to the order			
<input checked="" type="checkbox"/>	shipping_total (float) Shipping total without tax			
<input checked="" type="checkbox"/>	shipping_tax (float) Shipping tax amount			
<input checked="" type="checkbox"/>	total (float) Order total including tax			
<input checked="" type="checkbox"/>	total_tax (float) Total tax amount including shipping tax			
<input checked="" type="checkbox"/>	customer_id (string) Unique customer ID from an online store – used to match the online customer to an Alice customer.			

<input checked="" type="checkbox"/>	shipto_id (string) Unique ship to ID from an online store – used to match the online customer to an Alice customer. (Even if it's the same as the customer_id)		
<input checked="" type="checkbox"/>	taxes List of taxes applied to the order (excluding shipping tax)		
	<input checked="" type="checkbox"/> tax		
	<input checked="" type="checkbox"/> class (string) Tax class (can be found using Tax at 3.7)		
	<input checked="" type="checkbox"/> rate (float) Rate associated with the class (5.0 for 5%)		
	<input checked="" type="checkbox"/> amount (float) Tax amount applied		
<input type="checkbox"/>	alice_client_id (string) Unique customer ID from Alice (if it exists)		
<input type="checkbox"/>	reference (string) Invoice reference number, can be used to indicate the online order #		
<input type="checkbox"/>	invoicenote (string) Note the will be added to the invoice, printed on the receipt		
<input type="checkbox"/>	internalnote (string) Note the will be added to the invoice, only visible in Alice.		
<input checked="" type="checkbox"/>	billing Billing information		
<input checked="" type="checkbox"/>	first_name (string) Customer's first name		
<input checked="" type="checkbox"/>	last_name (string) Customer's last name		
<input type="checkbox"/>	company (string) Billing company		
<input checked="" type="checkbox"/>	address_1 (string) Billing address 1		
<input type="checkbox"/>	address_2 (string) Billing address 2		
<input checked="" type="checkbox"/>	city (string) Billing city		
<input checked="" type="checkbox"/>	state (string) Billing state or province		
<input checked="" type="checkbox"/>	postcode (string) Billing zip or postal code		
<input checked="" type="checkbox"/>	country (string) Billing country		
<input checked="" type="checkbox"/>	email (string) Customer's email address		
<input checked="" type="checkbox"/>	phone (string) Customer's phone number		
<input checked="" type="checkbox"/>	type (string) Determine if the client will be saved as a 'contact' or 'company' in Alice. Only for new entries, if one already exists with the ecomid, it will not be changed.		
<input checked="" type="checkbox"/>	shipping Shipping information		
<input checked="" type="checkbox"/>	first_name (string) Customer's first name (shipping)		

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	last_name (string) Customer's last name (shipping)		
	<input type="checkbox"/>	company (string) Shipping company		
	<input checked="" type="checkbox"/>	address_1 (string) Shipping address 1		
	<input type="checkbox"/>	address_2 (string) Shipping address 2		
	<input checked="" type="checkbox"/>	city (string) Shipping city		
	<input checked="" type="checkbox"/>	state (string) Shipping state or province		
	<input checked="" type="checkbox"/>	postcode (string) Shipping zip or postal code		
	<input checked="" type="checkbox"/>	country (string) Shipping country		
	<input checked="" type="checkbox"/>	type (string) Determine if the client will be saved as a 'contact' or 'company' in Alice. Only for new entries, if one already exists with the ecomid, it will not be changed.		
	<input type="checkbox"/>	taxes List of taxes applied to the shipping		
	<input checked="" type="checkbox"/>	tax		
		<input checked="" type="checkbox"/> class (string) Tax class (can be found using Tax at 3.7)		
		<input checked="" type="checkbox"/> rate (float) Rate associated with the class (5.0 for 5%)		
		<input checked="" type="checkbox"/> amount (float) Tax amount applied		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	products List of products ordered		
	<input checked="" type="checkbox"/>	product		
		<input type="checkbox"/> product_id (string) Unique product ID from an online store		
		<input checked="" type="checkbox"/> quantity (int) Quantity ordered		
		<input checked="" type="checkbox"/> total (float) Price at which the product was sold (unit price) (without tax)		
		<input checked="" type="checkbox"/> total_tax (float) Total tax amount applied to the product		
		<input checked="" type="checkbox"/> sku (string) The unique SKU of the product in Alice – 'pric_XXX' Or service classid = 'class_XXX' (See Section 5.1 for Sellable Attributes)		
		<input checked="" type="checkbox"/> price (float) The base product unit price (default retail price) (See Section 5.1 for Sellable Attributes)		
		<input checked="" type="checkbox"/> used (boolean) If the product is new (false) or used (true)		
		<input type="checkbox"/> note (string) Add note that will be displayed beside the product on the invoice		

			<input type="checkbox"/>	promolinkid (string) Id of the promotion element from the product->promoprice node.		
			<input type="checkbox"/>	promoid (string) Id of the promotion from the product->promoprice node.		
			<input type="checkbox"/>	taxes		
			<input checked="" type="checkbox"/>	tax		
				<input checked="" type="checkbox"/> class (string) Tax class (can be found using Tax at 3.7)		
				<input checked="" type="checkbox"/> rate (float) Rate associated with the class (5.0 for 5%)		
				<input checked="" type="checkbox"/> amount (float) Tax amount applied		

Response

	webid (string) Unique order ID given in the request			
	aliceid (string) The unique ID given to the order by Alice			
	client The customer			
	 webid (string) Unique customer ID given in the request (auto generated if empty)			
	 aliceid (string) The unique ID given to the customer by Alice			
	 operation (string) If the customer was created or updated (create/update)			
	products Ordered products list			
	 product Ordered product			
	 webid (string) Unique product ID given in the request			
	 aliceid (string) The product SKU (unique ID from Alice)			
	 inventory Product stock			
	 quantity_new (int) Quantity in stock (new)			
	 quantity_used (int) Quantity in stock (used)			
	 qty_available_new (int) Quantity available for order (new)			
	 qty_available_used (int) Quantity available for order (used)			
	 price Product prices			
	 regular_price (float) The product's regular price			
	 used_price (float) The product's regular price (used)			
	operation (string) If the order was created (create)			

Example:

```
<response>
  <request>
    <credentials></credentials>
    <scheme></scheme>
  </request>
  *** FULL REQUEST WILL BE INCLUDED,SEE PREVIOUS SECTION FOR DETAILS ***
  <return>
    <order>
      <webid>105523</webid>
      <aliceid>C190524-2</aliceid>
      <client>
        <webid>ecom66</webid>
        <aliceid>cont_3659</aliceid>
        <operation>update</operation>
      </client>
      <products>
        <product>
          <webid>1783</webid>
          <aliceid>pric_103</aliceid>
          <inventory>
            <quantity_new>3</quantity_new>
            <quantity_used>0</quantity_used>
            <qty_available_new>1</qty_available_new>
            <qty_available_used>0</qty_available_used>
          </inventory>
          <price>
            <regular_price>199.95</regular_price>
            <used_price>0</used_price>
          </price>
        </product>
      </products>
      <operation>create</operation>
    </order>
  </return>
  <status>
    <code>200</code>
    <description>Success</description>
  </status>
</response>
```

5.1 Sellable Product Attributes

Some product attributes can be sold in Alice and Online, this can be optional or mandatory and depends on the system's and the attribute's application zone.

Practical applications for this are environmental fees on electronics/tires, warranties and mandatory deposits on recyclable drink containers.

All the necessary fields are returned in the attributes section of the product request (section 3.3).

Application Zone

This defines area in which a sellable attribute can/must be sold. The list of all application zone for the system and the system's own applications (usually its location) can be retrieve using the request explained in section 3.8 and 3.9

The decision to use the online customer's or the system's zone will be made the store owner. It varies from jurisdictions to jurisdictions.

Example: Quebec's environmental fees must be charged on all electronics bought at a store located in Quebec or shipped to a customer living in Quebec but are not applicable in any other cases.

Mandatory Sell

Some attributes must be sold when the product they are attached to is sold, the quantities must match. As explained above, the application zone must be checked.

ID and Price

The values to use for the "sku" and "price" fields in the transaction request are different than regular products and depend on the attribute's inputtype.

For manual values (inputtype = 0), the "sku" will be the attribute's classid and "price" will be the attribute's value.

For single selection (inputtype = 1), the "sku" will be the attribute's valueid and the "price" will be the attribute's valueprice.

In both cases the attribute's name will be used on the invoice.

5.2 Product Matrix

It is possible to configure product matrix in Alice POS, that information is also returnable by the API in a few different ways.

Both the matrix parent and the variations are individual skus in Alice. They can have their own image, UPC, prices, promos, etc.

Up to 3 different attributes can be used to create variations with any number of possible values for each of those attributes.

The *ismatrixparent* field indicates that the product has variations. If it does, the *variants* node will be present and contain all the variations details (list of variation ids, list of possible attributes (name, id, value names, value ids)).

The information in the *variants* node is designed to allow integrators to generate all of the product's options without having to load/create all the sub-products.

Variations are named using this format: "Parent's name [Attribute 1 Value Name – Attribute 2 Value Name – Attribute 3 Value Name]". I.e. "Matrix Shirt [Large – Green]". They also have a value in the *parentsku* field in the product response.

When generating an order, the specific variation's details must be used in the product node, not the parent's.