ZSROI

Generic Integration

Sede Entroncamento: Estrada Nacional 3 - Zona Industrial Lote I-21, 2330-210 Entroncamento, Santarém
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Zone Soft - Fabrico de Produtos Software, Unipessoal, Lda | NIPC 507359690 | Capital Social: 105.000 Euros

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Introduction

This document is intended for Zone Soft partners who want to integrate their services using ZSROI to send orders directly to the POS.
This document aims to define the communication, authentication, menu structure and order structure in Zone Soft integration.
It aims to define endpoints that integrators should use, the structure and types of response expected from each, as well as the endpoints that integrators should implement, the structure and their responses.

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Communication and Authentication

First of all you need to register a user in https://developer.zonesoft.org and create a 'New Integration' (please see "Platform Manual" document).
Communication with the integrator will be via endpoints defined when creating a new integration.

Below is an example of the structure of a generic integration

```
{
   "app_key": "YOUR-KEY",
   "app_secret": "YOUR-APP-SECRET",
   "app_name": "YOUR-APP-NAME",
   "endpoints": {
            "endpoint_login": "https://example.com/auth/login",
            "endpoint_menu": "https://example.com/sync/menu",
            "endpoint_order_status": "https://example.com/order/status",
            "endpoint_pos_status": "https://example.com/pos/status/"
        }
}
```

endpoint_login - It's for API-ZSROI authenticate in Integrator's app with integrator APP- KEY and APP-SECRET (will be generated when you create a 'New Integration' in https://developer.zonesoft.org/login) that should return a token.
The token will be sent in headers to the others endpoints (see section Login).

endpoint_menu - This endpoint is for sending the menu (see section Menus).

endpoint_order_status - This endpoint is for send the Orders Status (see section Endpoint_order_status)

endpoint_pos_satus - This endpoint is for send information about POS status (see section Endpoint_pos_status)

ZoneSoft's integrator is responsible for creating the necessary endpoints to enable communication between their application and ZoneSoft. While the provided endpoints serve as an example, <u>the integrator must implement their specific endpoints</u>.

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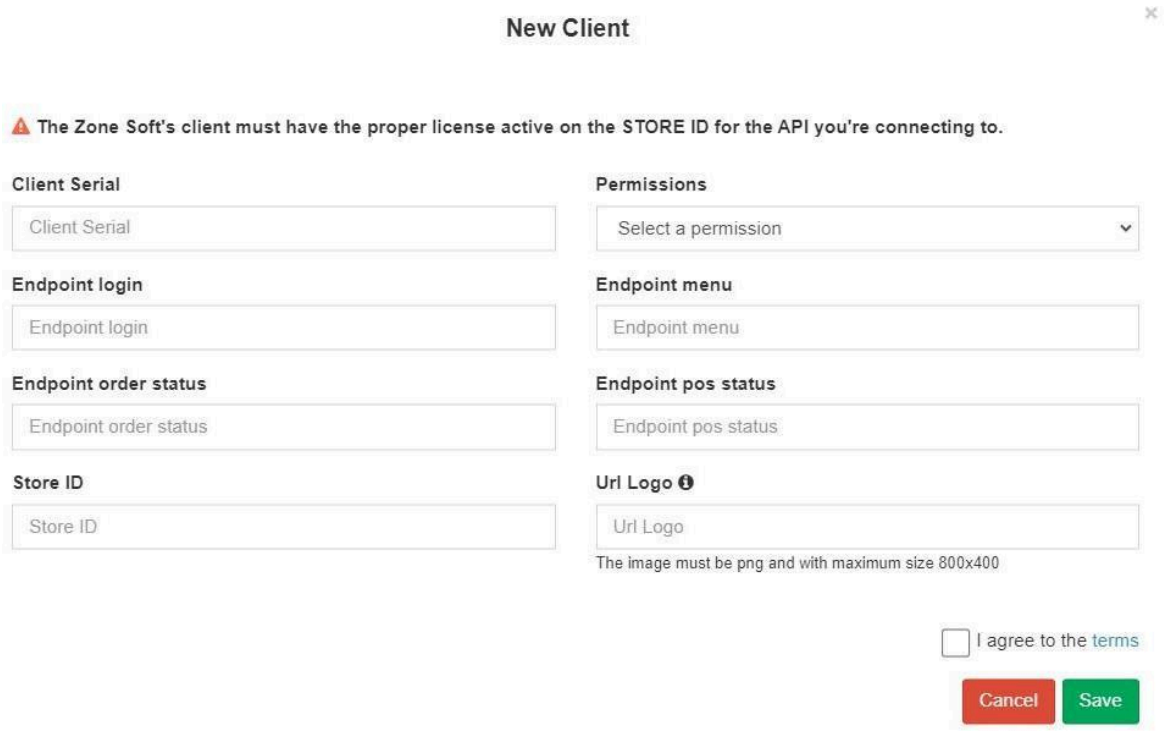
Where endpoints need to be configured

After creating a ‘New Integration’ in **https://developer.zonesoft.org** you need to create a new client and set all endpoints to finalize the integration with API-ZSROI.



If you don’t have a Client Serial you should to contact our comercial department (comercial@zonesoft.org)

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Headers to send in request to API-ZSROI

You need to add this information in the request to communicate with API-ZSROI
when: Send a order - (see section Orders)
Get Tables - (see section Get Tables)
Reservation table - (see section Reservation
table) Please see the example files and the
postman collection.

Authorization header you must send your APP-KEY found on the portal:
https://developer.zonesoft.org/login

X-Integration-Signature header you must send the request signature with your APP- SECRET that can also be found on the portal.

Signature:

```
hash_hmac('SHA256', $payload, $app_secret);
```

payload - request body
app_secret - your APP-SECRET found on the portal: https://developer.zonesoft.org/login

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Login

For ZSROI to synchronise the menu with the integrated App or access any other functionality provided by the integrated App, an authentication token must be obtained..

ZSROI will obtain that token through an authentication request to the endpoint defined for the App when it was registered on Zone Soft's integrator platform.

Example endpoint: https://example.com/auth/login

The token obtained will be sent in the header of each request to access the integrated App. The App must validate the token received.

Endpoint_login (defined in the integrator platform for the App)

```
curl--location--request POST 'https://example.com/auth/login \
--data-raw ' {
        “app_store_username”: “YOUR_APP_KEY”,
        “app_store_secret”: “YOUR_APP_SECRET”
   }’
```

Example of expected response

```
{
   "body": {
                "access_token": "TOKEN",
                "expires_in": 2592000
   },
   "header": {
                "statusCode": 200,
                "statusMessage": "OK",
                "status": "HTTP/1.1 200 OK"
   }
}
```


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Menus

Menus will have the functionality to set menu products in the integrated App, as well as shop hours and status. Create, update menus and set shop as online or offline in the integrated App.
Menus will be built by the client/restaurant in ZSBMS, being necessary to activate the products to be available in the integration or using digital menus, assigning a specific menu to the integration.

Json structure of the Menus

- **families (array)**

A family is the main category of a menu. It is mandatory to have at least one family on the menu. Examples of families: Drinks, Burgers, Salads, Desserts, Pasta.
In Zone Soft represents the table of *familias*.

- **subfamilies (array)**

A subfamily is a subdivision within families. They are not compulsory. Examples of sub-families: Soft drinks (family: Beverages), Carbonara (family: Pasta).
In Zone Soft represents the table of *subfamílias*.

- **products (array)**

A product is the main component of a menu. Each product belongs to a family and/or family + sub-family.
Zone Soft represents the table of *produtos*.

- **attributes (array)**

A product can be personalized in different ways. For example, adding a drink or adding an extra ingredient. Each of these customisations is considered as an attribute. It is not mandatory for a product to have attributes. Each attribute can have a different price impact. Attributes from the same menu are grouped into attribute groups.
In Zone Soft represents the table of *niveismenu*.

- **attribute_groups (array)**

Attribute groups allow you to group similar customisations into generic groups. Each attribute group can have a minimum number and maximum number of choices allowed to the client.
Examples of attribute groups:
- Side dish: rice and/or potatoes
- Drinks: water, coca-cola

In Zone Soft represents the table of *niveismenuext* and *complementares*.

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Structure of the array families

Field name	Description
name (string)	Family name
subfamilies (array)	List of sub-families

Structure of the array subfamilies

Field name	Description
name (string)	Name of the subfamily
products (array)	List of product id of the sub-family

Structure of the array products

Field name	Description
id (string)	Product ID
name (string)	Product name
price (int)	Price of the product in cents with VAT
tax_rate (string)	Product VAT
imagem_url (string)	Image url of the product
is_alcohol (integer)	Alcoholic product with value 1, value 0 non-alcoholic
description (string)	Product description
attributes_groups (array)	List of attribute groups ids
availability (string)	The days and times of day when this menu is available.

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Structure of the array attributes

Field name	Description
id (string)	Attribute ID
name (string)	Attribute name
selected_by_default (boolean)	Selected by default
price_impact (string)	Price of the attribute in cents with vat
tax_rate (string)	Iva of the attribute
attribute_groups (array)	Array of attribute groups ids

Structure of the attribute_groups array

Field name	Description
id (string)	Attribute group ID
name (string)	Name of the attribute group
min (integer)	Minimum number of attribute groups that can be chosen
max (integer)	Maximum number of attribute groups that can be chosen
attributes (array)	Array of attribute ids

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Endpoint_menu (defined in the integrator platform for the App)

In the file ‘menu_example’ is an example of a menu structure for your synchronisation, which will be sent to the menu endpoint.

Example of a successful expected response (statusCode 204)

```
{
   "body": "",
   "header": {
                  "statusCode": 204,
                  "statusMessage": "No Content",
                  "status": "HTTP/1.1 204 No Content"
  }
}
```

Example of response with error (statusCode 400)

```
{
   "body": {
         "error": "Field validation for ‘families’ failed on the 'required' tag"
   },
   "header": {
                  "statusCode": 400,
                  "statusMessage": "Bad Request",
                  "status": "HTTP/1.1 400 Bad Request"
  }
}
```


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Sync Menu via ZSROI

This endpoint allows you to synchronize the menu with ZSROI via an HTTP request.
The synchronization process is asynchronous. Once it completes, a final status notification will be sent to BMS.

Please note that there is a daily request limit. If this limit is reached, a specific error message will be returned.

Structure of the sync menu object

Field name	Description
client_id	Client_id available on the portal https://developer.zonesoft.org
store	Store ID

Example request

```
curl --location 'https://zsroi.zonesoft.org/v1.0/integration/syncMenu' \
--header 'Content-Type: application/json' \
--header 'X-Integration-Signature: Signature' \
--header 'Authorization: YOUR_APP_KEY' \
--data '{
    "client_id": "A73FEE38076757E",
    "store": 5
}'
```


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Example of a successful response (statusCode 201)


```
{
   "body": {
          "Response": {
               "StatusCode": 201,
               "StatusMessage": "Created",
               "Content": null
  }
 },
   "header": {
                    "statusCode": 204,
                    "statusMessage": "No Content",
                    "status": "HTTP/1.1 204 No Content"
  }
}
```


Example of response with error (statusCode 422)


```
{
   "body": {
               "Response": {
               "StatusCode": 422,
               "StatusMessage": "Unprocessable Entity",
               "Content": [
                     {
                       "property": "client_id",
                       "error": "Max sync per day (5) reached"
                     }
                   ]
               }
            }
    },
   "header": {
                    "statusCode": 422,
                    "statusMessage": "Unprocessable Entity",
                    "status": "HTTP/1.1 422 Unprocessable Entity"
  }
}
```


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Example of response with error (statusCode 400)


```
{
  "body":{
   "Response": {
      "StatusCode": 400,
      "StatusMessage": "Bad Request",
      "Content": null
   }
  }
   "header": {
                    "statusCode": 400,
                    "statusMessage": "Bad Request",
                    "status": "HTTP/1.1 400 Bad Request"
  }
}
```


Example of response with error (statusCode 401)


```
{
  "body":{
    "Response": {
      "StatusCode": 401,
      "StatusMessage": "Unauthorized",
      "Content": null
    }
  }
   "header": {
                    "statusCode": 401,
                    "statusMessage": "Unauthorized",
                    "status": "HTTP/1.1 401 Unauthorized"
  }
}
```


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Orders

Orders is the ZSROI functionality that handles orders generated in the integrated App and then routes them to the POS.

Structure of the Orders object

Field name	Description
order_id (string)	Order ID
store_id (string)	Your 'client_id' available at https://developer.zonesoft.org
type_order (string)	Type of order -Allowed values: • DELIVERY • PICKUP
order_time (string datetime)	Date and time the order was accepted by the integrating entity in the format: yyyy-MM-dd HH:mm:ss
estimated_pickup_time (string datetime)	Estimated date and time the courier will arrive in the format yyyy-MM-dd HH:mm:ss
currency (string)	Currency code (EUR)
allergy_info (string) (optional)	Customer allergy information
delivery_fee(int) (optional)	Delivery price in cents
estimated_total_price (int) (optional)	Estimated total price of products and attributes of the order in cents with VAT. The delivery tax is not included
courier (object) (optional)	Object containing information about the courier.
customer (object) (optional)	Object that contains customer information
products (array)	Array containing the products of the order. One product per object
obs (string) (optional)	Observations / Notes

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orderIsAlreadyPaid (boolean)	Information if the order has already been paid for
payment_type (Integer) (optional)	Payment type Allowed values: • 1 - Money • 2 - Banker's Cheque • 3 - Debit card • 4 - Credit card • 9 - Multiple Payments (from version 2024.0.1.21 of ZSRest) • 28 - Uber Eats • 36 - Glovo • 39 - Bolt Food • 41 - Flipdish
delivery_address (object)	Delivery address information
is_picked_up_by_customer (boolean)	Boolean to indicate if the order will be picked up by a customer
discounted_products_total (Integer)	Total discount of the products - the sum of the 'discount' field of each product which should take into account the field 'attributes[].discount'
total_customer_to_pay (int)	Total amount to be paid in cents by the customer
channel_name (string) (optional)	Name of the origin order supplier. Must use the following: #INTEGRATOR#PROVIDER. Example: #ZONESOFT#UBER_EATS
payment_charges (object) (optional)	Object with the various charges that make up the payment for an order
pick_up_code (string) (optional)	Pick up code the courier uses to identify order pick up

Courier (object)

Field name	Description
name (string)	Name of courier
phone_number (string)	Phone number of courier

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license_plate (string)	Registration of the courier

Customer (object)

Field name	Description
name (string)	Client's name
phone (string)	Customer phone number
nif (string)	NIF
email (string)	Client’s email

Produts(array)

Field name	Description
id (string)	Product id
quantity (integer)	Order product quantity
name (string)	Product name
price (int)	Price of the product in cents with VAT
discount (int)	Product discount in cents
obs (string) (optional)	Product observations
attributes (array)	Array containing the product attributes

Delivery_address(object)

Field name	Description
label (string)	Address
latitude (string)	Latitude coordinate
longitude (string)	Longitude coordinate

Attributes(array)

Field name	Description

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Id (string)	Attribute ID
quantity (integer)	Quantity of the order attribute
name (string)	Attribute name
price (int)	Price of the attribute in cents with vat
discount (int)	Product discount in cents

Payment_charges(object)

Field name	Description
total (int)	Total cost of the order, including taxes and fees in cents
sub_total (int)	Total cost of each product in cents without taxes
tax (int)	Total cost of fees in cents
total_fee (int)	Total fees charged on the order that will be paid to the Merchant
total_fee_tax (int)	The total tax charged on the total rate in cents
bag_fee (int)	The fee charged to provide a bag(s) for the order in cents
delivery_fee (int)	The fee charged to deliver the package in cents
delivery_fee_tax (int)	Tax charged on delivery fee in cents
small_order_fee (int)	The fee charged for low-value orders in cents
small_order_fee_tax (int)	Tax charged for low-value parcels in cents
pick_and_pack_fee (int)	Fee charged for the collection of parcels in cents
pick_and_pack_fee_tax (int)	Package collection tax in cents
tip (int)	Total tips in cents

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In the file 'order_example' is an example of an order that the Zone Soft API expects to receive.

Endpoint that should be used for sending orders:

- https://zsroi.zonesoft.org/v1.0/integration/order

Note: In the 'Authorization' header you must send your APP-KEY found on the portal: https://developer.zonesoft.org/login
In the 'X-Integration-Signature' header you must send the request signature with your APP-SECRET that can also be found on the portal.

Example of how the request should be signed:

```
hash_hmac('SHA256', $payload, $app_secret);
```

Example of the response of the Zone Soft API on receiving the order if it is saved successfully

```
{
    "Response": {
        "StatusCode": 201,
        "StatusMessage": "Created",
        "Content": null
    }
}
```

Example of Zone Soft API response when the order is received and there is no menu on the Zone Soft side, with the same ids as the order.

```
{
    "Response": {
        "StatusCode": 422,
        "StatusMessage": "Unprocessable Entity",
        "Content": "order_rejected_pos_menu_not_found"
    }
}
```


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Example of response from the Zone Soft API when order is received and the POS is not connected

```
{
   "Response": {
      "StatusCode": 422,
      "StatusMessage": "Unprocessable Entity",
      "Content": "order_rejected_pos_ping_failed"
   }
}
```

Example of the response from the Zone Soft API when the order is received and the integration is not active

```
{
   "Response": {
      "StatusCode": 422,
      "StatusMessage": "Unprocessable Entity",
      "Content": "order_rejected_pos_missing_integration_service"
   }
}
```

Example of response from the Zone Soft API when the order is received and the structure is not as expected

```
{
   "Response": {
      "StatusCode": 400,
      "StatusMessage": "Bad Request",
      "Content": null
   }
}
```


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Endpoint_order_status (defined in the integrator platform for the App)

ZSROI will send status updates of orders received to this endpoint: 1 request per order.

Supported states: ‘accept’, ‘decline’, ‘ready’, ‘delivered’, ‘remind’.

```
curl --location --request POST 'https://example.com/order/status \
--header 'Content-Type: application/json' \
--header 'Authorization: TOKEN' \
--data-raw '{
    "order_id": "123123",
    "status": "accept"
}'
```

Example of a successful response (statusCode 204)

```
{
    "body": "",
    "header": {
                    "statusCode": 204,
                    "statusMessage": "No Content",
                    "status": "HTTP/1.1 204 No Content"
    }
}
```

Example of response with error (statusCode 404)

```
{
    "body": {
                    "code": "resource_not_found",
                    "message": "Order not found"
    },
    "header": {
                    "statusCode": 404,
                    "statusMessage": "Not Found",
                    "status": "HTTP/1.1 404 Not Found"
    }
}
```


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Endpoint_pos_status

The POS endpoints have the functionality to get information from the POS, to put the POS online or offline.
Note: The suffix 'closing' is added to endpoint_pos_status for PUT and DELETE requests.

POS data - Get POS status

```
curl --location --request GET 'https://example.com/pos/status \
--header 'Content-Type: application/json' \
--header 'Authorization: TOKEN' \
--data-raw ''
```

Example of a successful response (statusCode 200)

```
{
   "body": "",
   "header": {
                  "statusCode": 200,
                  "statusMessage": "OK",
                  "status": "HTTP/1.1 200 OK"
  }
}
```

POS online - Putting the POS online to receive orders

```
curl --location --request DELETE 'https://example.com/pos/status/closing' \
--header 'Content-Type: application/json' \
--header 'Authorization: TOKEN' \
--data-raw ''
```

Example of a successful response (statusCode 204)

```
{
   "body": "",
   "header": {
                  "statusCode": 204,
                  "statusMessage": "No Content",
                  "status": "HTTP/1.1 204 No Content"
  }
```


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```
}
```

POS offline - Put the POS offline to not receive orders.

```
curl --location --request PUT 'https://example.com/pos/status/closing' \
--header 'Content-Type: application/json' \
--header 'Authorization: TOKEN' \
--data-raw ''
```

Example of a successful response (statusCode 204)

```
{
    "body": "",
    "header": {
                    "statusCode": 204,
                    "statusMessage": "No Content",
                    "status": "HTTP/1.1 204 No Content"
    }
}
```


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Table Reservation

To make a table reservation, you must follow the authentication process detailed in the "Login" section. Further details on reservations are available in the linked document: https://cdn1.zonesoft.org/docs/zsroi/v1/TablesReservations_API.pdf

Get Tables

Functionality to get the information from the tables to the serial and store

exemplo:

```
curl --location 'https://zsroi.zonesoft.org/v1.0/integration/tables/base_encode(seria+loja)' \
--header 'X-Integration-Signature: Signature' \
--header 'Authorization: YOUR_APP_KEY' \
--data ''
```


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