

USER DOCUMENTATION WEBAPI 2.0

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General information

Documentation has been created for version 2.0.0 available in the Web panel from version 2.1.7 and higher.

The calls realized by WebAPI 2.0 should be sent by POST method to the address [https://\[address-brand\]/api/v2](https://[address-brand]/api/v2) .

For the test infrastructure LAB of Xopero Software S. A. These are respectively:

- <https://lab.operobackup.com/api/v2/token>
- <https://lab.operobackup.com/api/v2/endpoint>

To get access to the test infrastructure, please contact the sales department of Xopero Software S. A

Data structure

The structure of queries

Any calls addressed to the system have to be formatted in **JSON** format and then sent within the **POST** request body to the selected resource.

Response structure

Resources always respond in the JSON format returned in the document body.

Depending on the status of the call execution specified in the success field, the date field is returned in case of successful execution of the call or error in case of an error.

Share resources

To communication with WebAPI v.2, two access points /token and /endpoint are used.

Resource / Token

The only task of /token resource is to authorize users who want to start communication with /endpoint resource.

Resource / Endpoint

Glossary of terms

CLIENT: is the user - subscription owner. Customer is able to create and manage users and modify the subscription.

USER: is a single account on the system. The user is identified by an email address and grouped within a single subscription and managed by a single client. The number of users is limited depending on the product.

PARTNER: a person registered in the partner system with access to the reseller's panel.

PRODUCT PARTNER: Product partner is a partner who resells Xopero products

PARAMETER PARTNER: The parameter partner can create his own products, is charged for the consumed resources.

PRODUCT: a set of parameters defining properties such as: capacity, number of hosts and users, shared functionalities

SUBSCRIPTION: a product assigned to a customer (purchased by the customer)

COUNTRY: a set of information about a physically existing country, containing information such as name, currency, VAT, etc., to be provided to the customer.

USED RESOURCES: the resources consumed within the subscription.

AVAILABLE RESOURCES: the resources consumed within the subscription.

PASSWORD POLICY: used within the brand to determine password requirements for users and resellers.

CAPACITY: the amount of allocated space.

HOST: a single computer with Xopero application..

SOHO PRODUCT (1): the most limited product mostly for small office and home office users

PERSONAL PRODUCT (5) : a product designed for private customers with a high capacity and a small number of users and hosts.

ENDPOINT PRODUCT (10) : product designed for workstations, providing unlimited number of users and hosts.

ENDPOINT & S ERVER PRODUCT (20): product designed for workstations and servers, providing unlimited number of users and hosts and advanced backup capabilities.

PERSONAL DATA: a set of information on whether a client account is a company account, etc.

LICENSE PERIOD: the duration of the subscription - 1 year, 2 years, 3 years.

TRIAL SUBSCRIPTION: free subscription, usually running for a period of 14 days, enabling customer to test Xopero application

FULL SUBSCRIPTION: full version of the subscription, Most often paid (not applicable freemium).

PRODUCT KEY: a set of parameters given by the subscription.

GETTING ACCESS TOKEN

To get an access token, send a POST type call to the resource/token.

Authentication can be done with a combination of login and password to the partner account or login and API key.

Example call for authorization by login and password:

```
POST https://lab.operobackup.com/api/v2/token
Content-Type: application/json

{"name":"john.snow@example.com","password":"zaq1@WSX"}
```

Example call for authorization using login and API key::

```
POST https://lab.operobackup.com/api/v2/token
Content-Type: application/json

{"name":"john.snow@example.com","apiKey":"00000000-0000-0000-0000-000000000000"}
```

Server response if the authorization is correct:

```
{
  "success": true,
  "data": {
    "token":
      "00000000-0000-0000-0000-000000000000",
    "validTo": "1970-01-01T00:00:00+00:00"
  }
}
```

The data.token field returns the access token to the system and the data.validTo contains the date to which the access token is valid.

RESOURCE METHOD/ENDPOINT

FINDPRODUCT METHOD

This method is used to get the product list that meets the search criteria given in the body field.

It is possible to search available products for the owner access token account as well as any of its partners.

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>resellerId</i>	No	int	Partner id whose products are to be searched, default value is access token owner id.
<i>id</i>	No	int	Product id.
<i>name</i>	No	string	Product name, the use of wildcard % is allowed.
<i>versionId</i>	No	int	Product version (1 - SOHO, 5 - Personal, 10 - Endpoint, 20 - Endpoint & Server)
<i>min_hosts</i>	No	int	Minimum amount of hosts in a product.
<i>max_hosts</i>	No	int	Maximum amount of hosts in a product.
<i>min_users</i>	No	int	Minimum amount of users in a product.
<i>max_users</i>	No	int	Maximum amount of users in a product.
<i>min_capacity</i>	No	int	Minimum product capacity.
<i>max_capacity</i>	No	int	Maximum product capacity.

Table 1 method filters FindProduct

Example of searching for products with up to one host:

```
POST https://xopero.iwservice.pl/api/v2/endpoint
Content-Type: application/json

{
  "token": "558db167-ccd7-40a0-2957-d96d9e6cefd2",
  "function": "FindProduct",
```

```
"data": {
  "max_hosts": 1
}
```

In response, the date field will be filled with objects array with the following structure:

<i>Field</i>	<i>Description</i>
<i>id</i>	Product id
<i>name</i>	Product name
<i>versionId</i>	Product version id
<i>versionName</i>	Version name
<i>hosts</i>	Hosts limit
<i>users</i>	Users limit
<i>capacity</i>	Capacity limit

Table 2 method response fields FindProduct

Example method response:

```
{
  "success": true,
  "data": [
    {
      "id": 1,
      "name": "Freemium",
      "versionId": 5,
      "versionName":
        "PRODUCT_VERSION_BAS", "hosts": 1,
      "users": 1,
      "capacity": "1073741824"
    }
  ]
}
```

ADDCUSTOMER METHOD

This method is used to create a new customer account (subscription owner) for both full and trial licenses. The created account can be assigned to the access token owner as well as to any of its partners. Compared to the previous API version, this function is unified for both product and parameter partners, and the number of fields required to provide the application has been reduced to the minimum necessary for the proper functioning of the system. Please note that the value of the email field must be unique to the entire Xopero Backup infrastructure.

	<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
	<i>email</i>	Yes	String	User's e-mail address. It has to be unique to the whole system, otherwise an error code 0x3003 will be returned
	<i>isActive</i>	Yes	boolean	If set to false, an e-mail with an activation link will be sent.
	<i>product</i>	Yes	int Object	Product id for product partners or object containing subscription data for parameter partners..
<i>licensingPeriod</i>		Yes	int	Licensing period in years. It takes values from the scope: [1, 2, 3]
<i>createTrial</i>		No	boolean	Define whether to create a Trial license when creating a client. Default value is false. In case of lack of enough funds on the reseller's account, the Trial license will be created..
<i>password</i>		Yes/No	string	The password set for the user. Required if the field <i>isActive</i> = true..
<i>contactEmail</i>		No	string	E-mail address to which system notifications will be sent, i.e. activation link, reports, etc.
<i>country</i>		No	int	Customer country id. The countries list can be taken from the GetCountries method. If the field is empty, it will be copied from your partner's account.
<i>resellerId</i>		No	int	Partner id. If not specified, id owner token will be set.
<i>personalData</i>		No	Object	Object containing customer personal data.
<i>shortNote</i>		No	string	Any short note about a customer's account.
<i>customText</i>		No	string	Any text assigned to the client's account.

Table 3 Fields accepted by the method AddCustomer

	<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
	<i>name</i>	No	string	Company name
<i>firstName</i>		No	string	Name

<i>lastName</i>	No	string	Last name
<i>street</i>	No	string	Address

<i>city</i>	No	string	City
<i>postalCode</i>	No	string	Postal Code
<i>phone</i>	No	string	
<i>taxId</i>	No	string	Tax ID

Table 4 structure of the object AddCustomer.personalData

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>accounts</i>	Yes	int	Limit of accounts that can be created within the subscription.
<i>capacity</i>	Yes	int	The capacity of the created subscription.
<i>hosts</i>	Yes	int	Limit of hosts available for subscription.
<i>name</i>	Yes	string	Product name.
<i>versionId</i>	Yes	int	Product version id. Appropriately: 1 - SOHO, 5 - Personal, 10 - Endpoint, 20 - Endpoint & Server.

Table 5 structure of the object AddCustomer.product

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	Customer id
<i>subscription</i>	No	Object	Details of the created subscription. Returned if the subscription was created by a product partner.
<i>activationCode</i>	No	string	Activation code necessary to activate customer account. Only if isActive = false.

Table 6 the structure of the answer AddCustomer

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Opis</i>
<i>id</i>	Yes	int	Subscription id.
<i>name</i>	Yes	string	Product name on the basis of which the subscription was created
<i>number</i>	Yes	string	Subscription number.
<i>status</i>	Yes	string	The status of the created subscription.
<i>type</i>	Yes	string	Subscription type. Appropriately: PRODUCT_TYPE_FREE - freemium, PRODUCT_TYPE_TRIAL - trial, PRODUCT_TYPE_FULL - full licence.

Table 7 the structure of the answer AddCustomer.subscription

EXAMPLE OF CALLING A METHOD

Example of creating customer with the e-mail address john.snow@example.com using activation via an activation link placed in the e-mail, with a one-year license for a product with ID = 1..

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "00000000-0000-0000-0000-000000000000",
  "function": "AddCustomer",
  "data": {
    "email": "john.snow@example.com",
    "isActive": false,
    "product": 1,
    "licensingPeriod": 1,
    "personalData": {
      "firstName": "John",
      "lastName": "Snow"
    }
  }
}
```

```
{
  "success": true,
  "data": {
    "id": 2300,
    "subscription": {
      "id": 4312,
      "name": "Freemium",
      "number": "5-2019-XV2FMNCIYWXD2C5",
      "status": "ORDER_STATUS_CURRENT",
      "type": "PRODUCT_TYPE_FREE"
    }
  }
}
```

Example of a correct answer to the above call:

Codes and error message

Code	Error Message
0xc000	Field „data“ it has not been set.
0x3000	Incorrect "date" field format.
0x3001	The "data.email" field has not been filled out.
0x3002	The "data.email" must be a valid email address.
0x3003	The address given in "data.email" is already registered in the system.
0x3004	The "data.isActive" field does not exist or is not of "boolean" type.
0x3005	The "data.product" field does not exist.
0x3006	The "data.licensingPeriod" field does not exist.
0x3007	The "data.licensingPeriod" field can only take one of the values [1, 2, 3].

0x3008 The field "data.password" is required if the field "data.isActive" = true.

0x3009	The country specified in the "data.country" field was not found.
0x300a	Partner not found in the "data.resellerId" field.
0x300b	The password entered in the "data.password" field does not meet the system requirements.
0x300c	The product indicated in the "data.product" field was not found.
0x300d	Account creation error.
0x300e	The problem with verification of the information provided.
0x300f	[reserved]
0x3010	The "data.product" field should be an object.
0x3011	The "data.product.accounts" field has not been filled out.
0x3012	The "data.product.capacity" field has not been filled out.
0x3013	The field "data.product.hosts" has not been filled out.
0x3014	The field "data.product.name" has not been filled out.
0x3015	The field "data.product.versionId" has not been filled out.
0x3016	The "data.product.versionId" field has an invalid value..
0x3017	[reserved]
0x3018	The product cannot be assigned.
0x3019	No funds on the partner's account.
0x301a	Violation of product settings policy.
0x301b	The "data.contactEmail" field has an invalid value.
0x301c	[reserved]
0x301d	[reserved]
0x301e	[reserved]
0x301f	[reserved]

Table 8 method error codes AddCustomer

ADDUSER METHOD

This method is used to create a new user assigned to an existing license. Please note that the number of users may be limited in the product, and the space allocated to a new user may not be allocated from users other than the license owner. As with customers, your account email address has to be unique to the entire infrastructure.

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>customerId</i>	Yes	int	Customer id to whose license the new user will be assigned
<i>email</i>	Yes	string	Unique e-mail address of the created user.
<i>capacity</i>	Yes	int	The space to be assigned to the created user. The value in bytes and its size has to be smaller than the free space in the license owner's account.
<i>isActive</i>	Yes	boolean	If set to false, an e-mail with an activation link will be sent.
<i>password</i>	Yes/No	string	Created user password. Required only if <i>isActive</i> = true.
<i>contactEmail</i>	No	string	Contact e-mail address. In the case of an entry, all correspondence leaving the system will be directed to this address.

Table 9 fields accepted by the method AddUser

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	Created user id.
<i>activationCode</i>	No	string	An activation code that can be used to activate your account.

Table 10 structure of the method response AddUser

EXAMPLE OF CALLING A METHOD

Example of creating a user account with the e-mail address user.john.snow@example.com, with a capacity of 1KB using the activation of e-mail.

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "00000000-0000-0000-0000-000000000000",
  "function": "AddUser",
  "data": {
    "email": "user.john.snow@example.com",
    "isActive": false,
    "customerId": 2300,
    "capacity": 1024
  }
}
```

Example of a correct answer to the above call:

```
{
  "success": true,
  "data": {
    "id": 2301,
    "activationCode": "cf618a2e-c8df-f647-83d0-7coe1df46acb"
  }
}
```

CODES AND ERROR MESSAGES

CODE	ERROR MESSAGE
0xc000	The "data" field has not been set.
0x4000	Incorrect "date" field format.
0x4001	The "data.customerId" field has not been set or has an incorrect format.
0x4002	The "data.email" field has not been set or has an incorrect format.
0x4003	The "data.capacity" field has not been set.
0x4004	The "data.isActive" field has not been set or has an incorrect format.
0x4005	The "data.password" field has not been set.
0x4006	The customer was not found.
0x4007	The indicated account is a user account, not a customer account.
0x4008	The customer of another partner was indicated.
0x4009	The account limit for client licenses has been reached.
0x400a	The e-mail address is already in use.
0x400b	You have reached the limit of the customer's license capacity.
0x400c	General account creation error.
0x400d	The e-mail address is already in use.
0x400e	The user repository could not be initialized.
0x400f	The password entered in the "data.password" field does not meet the system requirements.
0x4010	The "data.contactEmail" field has an incorrect format.

GETCUSTOMER METHOD

This method allows you to get current information about a single customer, which can be assigned to the token owner or any of its partners. Differently to most functions performed by WebAPI 2.0, the input parameter does not take the object, but only the customer id.

<i>Field</i>	<i>Required</i>	<i>Form at</i>	<i>Description</i>
<i>[Request body]</i>	Yes	int	Customer id.

Table 11 Fields accepted by the method GetCustomer

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	Customer id.
<i>resellerId</i>	Yes	int	Partner id who owns the customer.
<i>name</i>	Yes	string	Login.
<i>email</i>	Yes	string	Contact e-mail.
<i>status</i>	Yes	string	Account status. Appropriately: DELETED, IS_DISABLED, ACTIVATED, NOT_ACTIVATED.
<i>subscription</i>	No	Object	Information about subscription.
<i>customText</i>	No	string	The content of the customText field added when creating or editing the client.
<i>shortNote</i>	No	string	The contents of the shortNote field added when creating or editing a client.
<i>parameters</i>	No	Object	Information about the client's subscription parameters.
<i>children</i>	No	Object[]	List of license user accounts

Table 12 Struktura odpowiedzi GetCustomer

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>hosts</i>	Yes	int	The limit of devices in the subscription.
<i>capacity</i>	Yes	int	Subscription capacity.
<i>users</i>	Yes	int	The limit of users in the subscription.
<i>status</i>	Yes	string	Subscription status.
<i>name</i>	Yes	string	Product name.
<i>type</i>	Yes	string	Subscription type
<i>isTrial</i>	Yes	boolean	Trial license.

<i>hasBriefcase</i>	Yes	boolean	He has access to the briefcase.
<i>validFrom</i>	Yes	string	Subscription valid from.
<i>validTo</i>	Yes	string	Subscription valid to.

Table 13 the structure of the answer GetCustomer.parameters

Field	Permanent	Format	Description
<i>id</i>	Yes	int	
<i>name</i>	Yes	string	

Table 14 the structure of the answer GetCustomer.children

Field	Permanent	Format	Description
<i>id</i>	Yes	int	Product Id
<i>name</i>	Yes	string	Product name
<i>number</i>	Yes	string	Subscription number
<i>status</i>	Yes	string	ORDER_STATUS_AWAITING, ORDER_STATUS_CURRENT, ORDER_STATUS_CANCELLED, ORDER_STATUS_EXPIRED, ORDER_STATUS_HISTORICAL, ORDER_STATUS_DELETED
<i>type</i>	Yes	string	PRODUCT_TYPE_FREE, PRODUCT_TYPE_TRIAL, PRODUCT_TYPE_FULL

Table 15 the structure of the answer GetCustomer.subscription

Field	Permanent	Format	Description
<i>name</i>	No	string	Company name
<i>firstName</i>	No	string	Client's name.
<i>lastName</i>	No	string	Client's last name.
<i>isCompany</i>	No	string	The customer is a company.
<i>street</i>	No	string	Customer address.
<i>city</i>	No	string	Customer city
<i>postalCode</i>	No	string	Client's postcode
<i>phone</i>	No	string	Customer phone number.
<i>vatIn</i>	No	string	Tax ID.
<i>bank</i>	No	Object	Customer's bank details.
<i>country</i>	No	Object string	Information about the customer's country.

Table 16 the structure of the answer GetCustomer.personalData

Field	Permanent	Format	Description
-------	-----------	--------	-------------

<i>name</i>	No	string	Bank name.
<i>accountNumber</i>	No	string	Bank account number

Table 17 the structure of the answer `GetCustomer.personalData.bank`

<i>code</i>	Yes		string Country code according to ISO 3166-1 alpha-2.
<i>name</i>	Yes		string Country name.
<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	Int	Country ID

Table 18 the structure of the answer `GetCustomer.personalData.country`

EXAMPLE CALLING A METHOD

Sample query retrieving information about the client with ID 2300.

The account with the indicated identifier must be in the owner's space of the access token or one of his partners.

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "029e02fo-ec64-f1d9-8b21-f31b42341015",
  "function": "GetCustomer",
  "data": 2300
}
```

An example of the answer to the correct query:

```
{
  "success": true,
  "data": {
    "id": 2300,
    "resellerId": 1,
    "name": "john.snow@example.com",
    "email":
      "john.snow@example.com",
    "status": "ACTIVATED",
    "subscription":
      { "id": 4276,
        "name": "XCE100GB",
        "number": "4-2019-TVGERH7MSRWKWV3",
        "status": "ORDER_STATUS_CURRENT",
        "type": "PRODUCT_TYPE_TRIAL"
      },
    "customText": null,
    "shortNote": null,
    "parameters": {
      "hosts": 2147483647,
      "capacity": "107374182400",
      "users": 2147483647,
      "status": "ACTIVE",
      "name": "XCE100GB",
      "type": "PRODUCT_VERSION_STD",
      "isTrial": false,
      "hasBriefcase": true,
      "validFrom": "2019-04-22T08:40:32+02:00",
      "validTo": "2020-04-22T08:40:32+02:00"
    }
  }
}
```



```

"city": null,
  "postalCode":
    null, "phone":
    null,
  "vatIn": null,
  "bank": {
    "name": null,
    "accountNumber":
      null
  },
  "country": {
    "id": 179,
    "code": "PL",
    "name": "Poland"
  }
},
"children": [
  {
    "id": 2301,
    "name": "user.john.snow@example.com"
  }
]
}
}

```

CODES AND ERROR MESSAGES

CODE	ERROR MESSAGE
0x5000	The customer ID provided in the "data" field is not a number.
0x5001	Incorrect "date" field format.
0x5002	The account was not found on the system.
0x5003	The indicated account is a user account, not a customer account..
0x5004	No account access.

METHOD GETCUSTOMERS

This method allows downloading a list of clients assigned to the owner of the access token or partner indicated in the filters.resellerId parameter. As the result of the function, a collection of objects is returned.

The method can return up to 100 records at a time.

Field	Required	Format	Description
<i>filters</i>	No	Object	A set of filters to limit the number of results.
<i>offset</i>	No	int	Start downloading from the selected record (counted from 0).
<i>limit</i>	No	int	Limit of downloaded records (in the range 0 - 100).

Table 19 Fields accepted by the method GetCustomers

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>resellerId</i>	No	int	Partner ID.
<i>name</i>	No	string	Customer name
<i>email</i>	No	string	Contact e-mail address of the customer
<i>status</i>	No	string.	Subscription status

Table 20 Fields accepted by the method `GetCustomers.filters`

Data returned in the form of a collection of objects:

<i>id</i>	Yes	int	Customer id.
<i>resellerId</i>	Yes	int	Reseller id who owns customer.
<i>name</i>	Yes	string	User Name – login.
<i>email</i>	Yes	string	Contact e-mail address.
<i>status</i>	Yes	string	Account status. Correspondingly: DELETED, IS_DISABLED, ACTIVATED, NOT_ACTIVATED.
<i>subscription</i>	No	Object	Subscription information
<i>customText</i>	No	string	The content of the customText field added when creating or editing the client.
<i>shortNote</i>	No	string	The contents of the shortNote field added when creating or editing a client.
<i>parameters</i>	No	Object	Information about the client's subscription parameters.
<i>children</i>	No	Object[]	List of license user accounts.
<u>Field</u>	<u>Perm</u>	<u>Format</u>	<u>Description</u>
	<u>anen</u>		
	<u>t</u>		

Table 21 response structure GetCustomers

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>hosts</i>	Yes	int.	Device limit as part of the subscription
<i>capacity</i>	Yes	int	Capacity available as part of subscription.
<i>users</i>	Yes	int	Users limit.
<i>status</i>	Yes	string	Subscription status.
<i>name</i>	Yes	string	Product name.
<i>type</i>	Yes	string	Subscription type.
<i>isTrial</i>	Yes	boolean	Trial license.
<i>hasBriefcase</i>	Yes	boolean	Access to the briefcase.
<i>validFrom</i>	Yes	string	Subscription valid from.
<i>validTo</i>	Yes	string	Subscription valid to.

Table 22 response structure GetCustomers.parameters

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	User ID.

<i>name</i>	Yes	string	User name.
-------------	-----	--------	------------

Table 23 response structure GetCustomers.children

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	Product id
<i>name</i>	Yes	string	Product name
<i>number</i>	Yes	string	Subscription number

<i>status</i>	Yes	string	ORDER_STATUS_AWAITING, ORDER_STATUS_CURRENT, ORDER_STATUS_CANCELLED, ORDER_STATUS_EXPIRED, ORDER_STATUS_HISTORICAL, ORDER_STATUS_DELETED
<i>type</i>	Yes	string	PRODUCT_TYPE_FREE, PRODUCT_TYPE_TRIAL, PRODUCT_TYPE_FULL

Table 24 response structure GetCustomers.subscription

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>name</i>	No	string	Company name
<i>firstName</i>	No	string	Client's name.
<i>lastName</i>	No	string	Client's last name.
<i>isCompany</i>	No	string	The customer is a company.
<i>street</i>	No	string	Customer address.
<i>city</i>	No	string	Customer city
<i>postalCode</i>	No	string	Client's postcode
<i>phone</i>	No	string	Customer phone number.
<i>vatIn</i>	No	string	Tax ID.
<i>bank</i>	No	Object	Customer's bank details.
<i>country</i>	No	Object string	Information about the customer's country.

Table 25 response structure GetCustomers.personalData

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>name</i>	No	string	Bank name.
<i>accountNumber</i>	No	string	Bank account number.

Table 26 response structure GetCustomers.personalData.bank

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	Country identifier.
<i>code</i>	Yes	string	Country code according to ISO 3166-1 alpha-2.
<i>name</i>	Yes	string	Country name.

Table 27 response structure GetCustomers.personalData.country

AN EXAMPLE OF CALLING A METHOD

Get a list of clients limited to one record with the index moved to the fifty record.

```
POST https://lab.operobackup.com/api/v2/endpoint  
Content-Type: application/json  
  
{  
  "token": "1402f443-8aa8-933d-cedc-ba3fc73e3c64",
```

```

"function": "GetCustomers",
  "data": {
    "limit": 1,
    "offset": 50
  }
}

```

Example of a correct query response:

```

{
  "success": true,
  "data": [
    {
      "id": 87,
      "resellerId": 1,
      "name": "testEmailPanelLink",
      "email": "p.wegnerowski@xopero.comTO_JEST_LAB2",
      "status": "DELETED",
      "subscription": {
        "id": 158,
        "name": "XCE100GB",
        "number": "12-2017-XBSSZCS4QW85EIB",
        "status": "ORDER_STATUS_EXPIRED",
        "type": "PRODUCT_TYPE_TRIAL"
      },
      "customText": null,
      "shortNote": null,
      "parameters": {
        "hosts": 2147483647,
        "capacity": "107374182400",
        "users": 2147483647,
        "status": "DISABLED",
        "name": "XCE100GB",
        "type": "PRODUCT_VERSION_STD",
        "isTrial": true,
        "hasBriefcase": true,
        "validFrom": "2017-12-21T00:00:00+01:00", "validTo": "2018-01-04T00:00:00+01:00"
      },
      "personalData": {
        "name": "-----",
        "firstName": "-----",
        "lastName": "-----",
        "isCompany": false, "street": "-----",
        "city": "-----",
        "postalCode": "-----",
        "phone": "-----", "vatIn": null,
        "bank": {
          "name": null,
          "accountNumber": null
        }
      }
    }
  ]
}

```

CODES AND ERROR MESSAGES

No error codes identified.

GETCUSTOMER AVAILABLEPRODUCTS METHOD

The method allows downloading a list of products to which it is possible to modify the customer's subscription.

As an input parameter, it only accepts the client account ID.

The answer is returned in the form of a collection of product groups.

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>[Request body]</i>	Yes	int	Customer account ID

Table 28 the input format of the method GetCustomerAvailableProducts

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>class</i>	Yes	string	The product group class. Accepts values [business, personal]
<i>items</i>	Yes	Object[]	A collection of business product groups.

Table 29 the input format of the method GetCustomerAvailableProducts

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>name</i>	Yes	string	
<i>description</i>	Yes	string	
<i>product_version</i>	Yes	int	
<i>_id</i>			
<i>business_group</i>			[personal, endpoint, endpoint-server].
<i>variants</i>	Yes	Object[]	A collection of product variants.

Table 30 the input format of the method GetCustomerAvailableProducts.items

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	Identifier of the product variant.
<i>capacity</i>	Yes	int	Product capacity.
<i>hosts</i>	Yes	string	The number of devices that can be connected within the product.
<i>name</i>	Yes	string	Product name.
<i>price</i>	Yes	string	Product price.
<i>users</i>	Yes	string	Number of users that can be connected within the product.

Table 31 the input format of the method GetCustomerAvailableProducts.items .variants

AN EXAMPLE OF CALLING METHOD

Downloading available products for customer modification with ID 2300.

```
POST https://lab.operobackup.com/api/v2/endpoint
```

```
Content-Type: application/json
```

```
{
```

```
"token": "6c54f406-05bc-0954-fa29-e5d3263b0c42",
"function": "GetCustomerAvailableProducts",
"data": 2300
}
```

An example of a correct answer to a method query:

```
{
  "success": true,
  "data": [
    {
      "class": "business",
      "items": [
        {
          "name": "XCE100GB",
          "description": "{_select_variant}",
          "product_version_id": 10,
          "variants": [
            {
              "id": 117,
              "capacity": "300 GB",
              "hosts": "∞",
              "name": "300 GB",
              "price": "879.00 PLN",
              "users": "∞"
            }
          ]
        },
        {
          "business_group": "endpoint"
        }
      ]
    }
  ]
}
```

CODES AND MESSAGES OF ERRORS

CODE	ERROR MESSAGE
0x6000	The value entered in the "data" field must be numeric.
0x6001	The indicated account is outside the scope of the access token.
0x6002	Account not found.
0x6003	The indicated account is not a customer.
0x6004	Out of reach account.
0x6005	The account billing data is missing.

GETCUSTOMERUS AGE METHOD

A method that allows you to download the current use of the license by the client.

The result of the method is a combination of the use of space by the client and its users.

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>[Request body]</i>	Yes	int	Customer account ID.

Table 32 the input format of the method GetCustomerUsage

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>account</i>	Yes	Object[]	List of user accounts assigned to the client.
<i>assignedCapacity</i>	Yes	int	The capacity assigned to user accounts in the license.
<i>capacity</i>	Yes	int	Subscription capacity.
<i>usedSpace</i>	Yes	int	Space used.

Table 33 the input format of the method GetCustomerUsage

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	User account ID.
<i>name</i>	Yes	string	The name of the user account.
<i>capacity</i>	Yes	int	Assigned capacity.
<i>usedSpace</i>	Yes	int	Space used.

Table 34 the input format of the method GetCustomerUsage.account

AN EXAMPLE OF CALLING A METHOD

Asking about the use of resources by the customer with the ID 2304.

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "c03a87f7-a837-657f-7528-c3fa3131ca39",
  "function": "GetCustomerUsage",
  "data": 2304
}
```

Example of a correct query response:

```
{
  "success": true,
  "data": {
    "account": [
      {
        "id": 2304,
        "name": "john.smith@xopero.com",
        "capacity": "107374182400",
        "usedSpace": "0"
```



```

}
],
"capacity": "107374182400",
"assignedCapacity": "107374182400",
"usedSpace": "0"
}
}

```

CODES AND MESSAGES OF ERRORS

CODE	ERROR MESSAGE
0x7000	The value entered in the "data" field must be numeric.
0x7001	The indicated account is outside the scope of the access token.
0x7002	The customer was not found.
0x7003	The indicated account is not a customer.
0x7004	Out of reach account.

GETUSER METHOD

The method allows downloading detailed information about users and clients in the system. It does not work in context, so the returned data is constant for both customer accounts and users. The user or client account identifier is accepted as the input parameter.

Field	Required	Format	Description
[Request body]	Yes	int	Customer or user account ID.

Table 35 the input format of the method GetUser

Field	Permanent	Format	Description
id	Yes	int	User ID.
resellerId	Yes	int	Partner ID.
name	Yes	string	User Name.
email	Yes	string	Contact user's email address.
status	Yes	string	User account status.
parameters	Yes	Object	User account parameters.

Table 36 The input format of the method metody GetUser

Field	Permanent	Format	Description
capacity	Yes	int	Assigned space.

usedSpace | Yes int Space used.

Table 37 The input format of the method GetUser.parameters

EXAMPLE CALLING A METHOD

Example query for user information with ID 2280.

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "2edf28ba-2fec-2307-9353-0443e7c7bf24",
  "function": "GetUser",
}
```

```
"data": 2280
}
```

Example of a positive query response:

```
{
  "success": true,
  "data": {
    "id": 2280,
    "resellerId": 1,
    "name": "john.snow@xopero.com",
    "email":
      "john.snow@xopero.com",
    "status": "ACTIVATED",
    "parameters": {
      "capacity": "107374179328",
      "usedSpace": "0"
    }
  }
}
```

CODES AND MESSAGES OF ERRORS

CODE	ERROR MESSAGE
0x9000	The value entered in the "data" field must be numeric.
0x9001	The indicated account is outside the scope of the access token.
0x9002	The customer was not found.
0x9003	Out of reach account.

DELETEUSER METHOD

A method that allows you to delete a user or a client from the system.

The function has the option of compliance with the GDPR guidelines and the possibility to release user names.

It is important to note that all users will be removed when the client is removed.

Field Required Format Description

<i>accountId</i>	Yes	int	User or client account ID.
<i>gdprReady</i>	No	boolean	It informs the system about the need to perform a reset in GDPR Ready mode. Default false.
<i>releaseUser n ame</i>	No	boolean	It informs the system about the need to release names Users. Default false.

Table 38 the input format of the method DeleteUser

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>[Response body]</i>	Yes	boolean	It informs about the success or error of performing the operation.

Table 39 the input format of the method DeleteUser

EXAMPLE CALLING A METHOD

Removal of the client with ID 2280.

```
POST https://xopero.iwservice.pl/api/v2/endpoint
Content-Type: application/json
```

```
{
  "token": "78fadabb-977d-84f9-3df5-657ce1d7b67b",
  "function": "DeleteUser",
  "data": {
    "accountId":
      2280
  }
}
```

Example of a correct query response.

```
{
  "success": true,
  "data": true
}
```

CODES AND MESSAGES OF ERRORS

Code	Error Message
0xd000	Field „data“ it has not been set.
0xd001	The "data" field must be an object.
0xd002	The "data.accountId" field has not been set.
0xd003	The "data.accountId" field must be numeric.
0xd004	The user was not found.
0xd005	The account is not in range.
0xd006	The account is already deleted.
0xd007	The "data.gdprReady" field must be boolean.
0xd008	The field "data.releaseUsername" must be boolean.
0xd009	General account deletion error.

GETSUBSCRIPTION METHOD

A method that allows you to retrieve information about a given subscription, as well as a list of associated licenses (assigned to the same customer)

Field	Required	Format	Description
<i>[Request body]</i>	Yes	int	Subscription number.

Table 40 The input format of the method GetSubscription

Field	Permanent	Format	Description
<i>id</i>	Yes	int	Subscription id.
<i>number</i>	Yes	string	Subscription number.
<i>product</i>	No	Object	Data about the product.

<i>status</i>	Yes	string	Subscription status.
<i>period</i>	Yes	string	Licensing period.
<i>validFrom</i>	No	string	Subscription valid from.
<i>validTo</i>	No	string	Subscription valid to.
<i>subscriptions</i>	No	Object[]	Other associated subscriptions.

Table 41 The output format of the method GetSubscription

EXAMPLE CALLING A METHOD

Query for subscription with the number 5-2019-WYOU1VYHTAHE6Z3:

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "ac1aff21-5cbd-f06c-f15a-ddc5da6850cb",
```

```
"function": "GetSubscription",
"data": "5-2019-WYOU1VYHTAHE6Z3"
}
```

An example of a correct answer to a query:

```
{
  "success": true,
  "data": {
    "id": 4314,
    "number": "5-2019-WYOU1VYHTAHE6Z3",
    "product": {
      "id": 115,
      "name": "XCE100GB",
      "type":
        "PRODUCT_VERSION_STD",
      "hosts": 2147483647,
      "users": 2147483647,
      "capacity": "107374182400"
    },
    "status": "CURRENT",
    "period": "1Y",
    "validFrom": "2019-05-15To8:48:33+02:00",
    "validTo": "2020-05-15To8:48:33+02:00",
    "subscriptions": [
      {
        "number": "5-2019-EGZL7B9WHGC2G5B",
        "status": "CANCELLED"
      },
      {
        "number": "5-2019-WYOU1VYHTAHE6Z3",
        "status": "CURRENT"
      }
    ]
  }
}
```

CODES AND ERROR MESSAGES

Code	Error Message
0xa000	The subscription was not found.
0xa001	The account is outside the scope of the access token.
0xa002	Out of reach account.

SETUSERPASSWORD METHOD

A method that changes the password of the given user or client.

In case the account has the status "Pending activation" after changing the password, it will be marked as Activated, and the password will be set by the method.

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>accountId</i>	Yes	int	User or client account ID.
<i>password</i>	Yes	string	The password to be set.

Table 42 The input format of the method SetUserPassword

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>[Response body]</i>	Yes	boolean	Password change status.

Table 43 The input format of the method SetUserPassword

AN EXAMPLE OF CALLING A METHOD

Changing the password for the user with ID 2280 to zaq12wsx !..

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "ac1aff21-5cbd-f06c-f15a-ddc5da6850cb",
  "function": "SetUserPassword",
  "data": {
    "accountId": 2280,
    "password": "zaq12wsx!"
  }
}
```

Example of the correct answer:

```
{
  "success": true,
  "data": true
}
```

CODES AND ERROR MESSAGES

<i>Code</i>	<i>Error Message</i>
0xb000	The "data" field must be an object.
0xb001	The "data.accountId" field must be numeric
0xb002	The "data.password" field must be a text string.
0xb003	Account outside the scope of the access token.
0xb004	The password does not meet the system requirements.

0xb005	The user was not found.
0xb006	Out of reach account

GETCOUNTRIES METHOD

The method returns a list of countries appearing in the system that can be used in creation customer or user. Keep in mind that each country has an assigned settlement currency and this choice affects the availability of products.

Metoda nie przyjmuje żadnych parametrów, a zwracane dane mają format tablicy obiektów.

<i>id</i>	Yes	int
<i>code</i>	Yes	string
<i>currency</i>	No	string
<i>name</i>	Yes	string
<i>Field</i>	<i>Permanent</i>	<i>Field Description</i>

Table 44 The output format of the method GetCountries

EXAMPLE CALLING A METHOD

CODES AND ERROR MESSAGES

No known error codes.

GETVERSION METHOD

The method that returns the API version provided by the application in a number format. For example, version number 20509 means version 2.5.9::

- 2 – Major
- 05 – Minor
- 09 – Release

The change of the API version number reflects the level of changes in the system mechanisms:

- Release – reduces the change, which does not affect compatibility with the previous version System. The appearance of a new input or output field that does not affect the correct operation of integration with the previous version of the system or the improvement of the method.
- Minor – The emergence of a new method or marking existing as deprecated..
- Major – appearance of changes breaking compatibility, change of behavior of functions, appearance new required field in the method.

EXAMPLE CALLING A METHOD

CODES AND MESSAGES OF ERRORS

SETSUBSCRIPTION METHOD

A method that allows you to modify the customer's subscription.

Please note that calling the function will result in an immediate charge to the partner's account.

<i>Field</i>	<i>Required</i>	<i>Format</i>	<i>Description</i>
<i>customerId</i>	Yes	int	Customer ID.
<i>productId</i>	Yes	int	Product identifier. If unchanged, give 0.

<i>licensingPeriod</i>	Yes	string	Licensing period: NO - unchanged, 1Y - year, 2Y - two years, 3Y - three years.
------------------------	-----	--------	--

Table 45 Format danych wejściowych metody SetSubscription

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>order</i>	Yes	Object	Information about the created order.

Table 46 Format The input format of the method SetSubscription

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>id</i>	Yes	int	Order ID.
<i>number</i>	Yes	string	Order number.

Table 47 The input format of the method SetSubscription.order

EXAMPLE CALLING A METHOD

Extension of subscription for the customer number 2280 by two years:

```
POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "557fc789-68e8-1ff7-b8e0-972283d229c7",
  "function": "SetSubscription",
  "data": {
    "customerId": 2280,
    "productId": 0,
    "licensingPeriod": "2Y"
  }
}
```

An example of the correct answer:

```
{
  "success": true,
  "data": {
    "order": {
      "id": 4315,
      "number": "5-2019-XIAE9TA2MU8ZQAL"
    }
  }
}
```

CODES AND ERROR MESSAGES

<i>Code</i>	<i>Error Message</i>
0xc000	The "data" field has not been set.
0xc001	Incorrect "date" field format.
0xc002	The field "data.customerId" has not been set,

0xc003	The field "data.productId" has not been set
0xc004	The customer was not found.
0xc005	Customer out of reach.
0xc006	The product was not found.
0xc007	Invalid product.
0xc008	Protection against downgrade.
0xc009	Product not available in customer's currency.
0xc00a	Invalid reseller.
0xc00b	Incorrect licensing period.
0xc00c	The field "data.licensingPeriod" has not been set.

REFRESHTOKEN METHOD

The method extends the validity period of the access token for another 15 minutes from the moment of calling methods.

The method does not accept any parameters.

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>token</i>	Yes	string	Access token identifier.
<i>validTo</i>	Yes	string	The new expiration date of the access token.

Table 48 The output format of the method RefreshToken

EXAMPLE CALLING A METHOD

```

POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "9b849132-c3cf-25a9-4cac-8b62aa7b15fb",
  "function": "RefreshToken"
}

```

Example of a correct query response:

```

{
  "success": true,
  "data": {
    "token": "9b849132-c3cf-25a9-4cac-8b62aa7b15fb",
    "validTo": "2019-05-20T10:50:49+02:00"
  }
}

```

CODES AND ERROR MESSAGES

No known error codes.

FORGETTOKEN METHOD

Method that invalidates the access token

Method does not accept any parameters.

After the method is performed, it is not possible to continue using the current access token.

<i>Field</i>	<i>Permanent</i>	<i>Format</i>	<i>Description</i>
<i>[Response body]</i>	Yes	boolean	Information about the success of the operation.

Table 49 The output format of the method ForgetToken

EXAMPLE CALLING A METHOD

```

POST https://lab.operobackup.com/api/v2/endpoint
Content-Type: application/json

{
  "token": "9b849132-c3cf-25a9-4cac-8b62aa7b15fb",
  "function": "ForgetToken"
}

```

Example of a correct query response:

```
{
  "success": true,
  "data": true
}
```

CODES AND ERROR MESSAGES

No known error codes.

GETPARTNERS METHODE

A method that generates a list of partners based on defined filters in a given range.

By default, the function starts searching from the null element and returns 100 records.

Field	Constant	Format	Description
<i>filters</i>	No	Object	Record filter.
<i>offset</i>	No	int	The item from which to search
<i>limit</i>	No	int	Limit the number of records returned. Value in the range of 1-100.

Dostępne filtry partnerów:

Field	Constant	Format	Description
<i>resellerId</i>	No	int	ID of sub-partner.
<i>name</i>	No	string	Username of partner. You can use percentage sign as mask.
<i>email</i>	No	string	E-mail address of partner.
<i>status</i>	No	string	One of [CREATED, ACTIVATED, DISABLED, DELETED]

CODES AND ERROR MESSAGES

No known error codes.

GETPARTNERS METHODE

A function that allows you to download details of a sub-partner account located in the token owner space.

Field	Constant	Format	Description
[Response body]	Yes	int	Partner id.

Information returned:

Field	Constant	Format	Description
<i>id</i>	Yes	int	Partner id.
<i>name</i>	Yes	string	Partner username.
<i>email</i>	Yes	string	Partner's email address.
<i>protectedDevices</i>	Yes	Object	Number of devices protected by the partner.
<i>usedSpace</i>	Yes	int	Space used.
<i>wallets</i>	Yes	Object[]	List of partner wallets.
<i>transactions</i>	Yes	Object[]	List of wallet top-up transactions.
<i>partnershipLevel</i>	Yes	string	Partnership level.
<i>partnershipValidTo</i>	Yes	Date	Period of validity of the partnership level.
<i>alreadyDoneFirstLogin</i>	Yes	boolean	Has the partner already logged in for the first time.
<i>phoneNumber</i>	Yes	string	Partner's phone number.