Invoices ROBO API v4.21

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1   Accessing ROBO API

API URL: <SUBDOMAIN>.robolabs.lt/**<METHOD_URL>**

SUBDOMAIN – name used to log in to the system provided by RoboLabs.

METHOD_URL – selected API method for sending requests.

Example: *company*.robolabs.lt/*api/create_invoice*

1.1   Authentication

RoboLabs provides a unique key which, when sending a request, may be passed using these methods:

- By passing it directly in the query using parameter *secret;*

- By passing it in the query header using parameter *x-api-key.*

1.2   Testing environment

The testing environment is **general** - we strongly recommend using testing data only.

API URL: api.robolabs.lt

Key: SECRET

2   Executing API methods

2.1   Execution mode

API methods are executed either in threaded or in non-threaded mode. The mode is indicated by the parameter „Enable threaded API import" in company settings.

If threaded mode is not enabled, the method is executed and the response is returned directly.

If threaded mode is enabled and the method may be run in threaded mode, a job is created to run in a periodic batch and execute the method.

If threaded mode is enabled, but the method should be run instantly, *BOOLEAN* type parameter *execute_immediately* should be passed in the query.

Response structure when method is run in threaded mode:

Response: Robo_response

Field	Type	Description
code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.
data	DICT	Job's information is provided

Job's information structure (*data*):

Field	Type	Description
api_job_id	INTEGER	Job identification number

2.2 Execution limitations

Execution of API methods is generally limited up to:

- 10 queries per minute;

- 500 queries per hour.

3 API methods

3.1 Get API job

Method: HTTP POST (JSON)

URL: /api/get_api_job

Method description: get API job information.

Threaded: No

3.1.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
api_job_id	INTEGER	Yes	Job identification number

Request example:

```
{
 "secret": "",
 "api_job_id": 5
}
```

3.1.2 Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.
data	DICT	Job's information is provided

Job's information structure (*data*):

Field	Type	Description
endpoint	STRING	Action method
action	STRING	Action name
registration_date	STRING	Action registration date and time
execution_end_date	STRING	Action execution end date and time
state	STRING	Action state, possible values: • to_execute – Waiting for job execution • to_retry – Waiting for repeated job execution • in_progress – Job execution is in progress • succeeded – Job execution is successful • failed – Job execution is not successful
job_id	INTEGER	Job identification number
response_data	STRING	Action response data
response_message	STRING	Action state message

3.2 Get API job list

Method: HTTP POST (JSON)

URL: /api/get_api_job_list

Method description: get API jobs information. Result is always limited to 100 records.

Threaded: No

3.2.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
date_from	STRING	No	Job registration period start date, format YYYY-MM-DD HH:MM:SS
date_to	STRING	No	Job registration period end date, format YYYY-MM-DD HH:MM:SS

state	STRING	No	Job action state, possible values: • to_execute – Waiting for job execution • to_retry – Waiting for repeated job execution • in_progress – Job execution is in progress • succeeded – Job execution is successful • failed – Job execution is not successful

Request example:

```json
{
    "secret": "",
    "date_from": "2020-05-01 00:00:00",
    "date_to": "2020-06-01 00:00:00",
    "state": "to_execute"
}
```

3.2.2 Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.
data	ARRAY(DICT)	Jobs' information is provided

Jobs' information structure (*data*):

Field	Type	Description
endpoint	STRING	Action method
action	STRING	Action name
registration_date	STRING	Action registration date and time
execution_end_date	STRING	Action execution end date and time
state	STRING	Action state, possible values: • to_execute – Waiting for job execution • to_retry – Waiting for repeated job execution • in_progress – Job execution is in progress • succeeded – Job execution is successful • failed – Job execution is not successful
job_id	INTEGER	Job identification number
response_data	STRING	Action response data

response_message	STRING		Action state message

3.3　　　　Create invoice

Method: HTTP POST (JSON)

URL: /api/create_invoice

Method description: submit new invoices to ROBO accounting application.

Threaded: Yes

3.3.1　　　　Request structure

Invoice structure:

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
journal	STRING	Yes	Sequence of invoice, e.g. „INV"
date_invoice	STRING	Yes	Invoice date, format YYYY-MM-DD
skip_isaf	BOOLEAN	No	Indication, if ISAF should be skipped
draft	BOOLEAN	No	Indication, if invoice is draft
force_dates	STRING	No	Forced invoice date, format YYYY-MM-DD
cancelled	BOOLEAN	No	Indication, if invoice is cancelled
force_type	STRING	No	Invoice type; possible values: „in_invoice" – Purchase invoice „in_refund" – Credit purchase invoice „out_invoice" – Sales invoice „out_refund" – Credit sales invoice
language	STRING	No	Invoice printing language, possible values: • „LT" – Lithuanian • „EN" – English
b_class_code	STRING	No	B class code, e.g.: „02"
reference	STRING	No	Supplier reference, e.g. „ABC1111111"; the value must be without spaces
supplier_invoice	BOOLEAN	No	Indication, if it is a puchase invoice
due_date	STRING	No	Invoice due date, format YYYY-MM-DD
registration_date	STRING	No	Invoice registration date, format YYYY-MM-DD
number	STRING	Yes*	Full invoice number, e.g. „INV0001"; required if the invoice is not draft or it has payments
proforma	BOOLEAN	No	Indication, if invoice is proforma
currency	STRING (3)	Yes	Currency ISO code, e.g. „EUR"
warehouse_cost	FLOAT	No	Price in warehouse
subtotal	FLOAT	No	Invoice subtotal amount before tax

				(positive)
tax	FLOAT	No	Invoice tax amount (positive)
total	FLOAT	No	Invoice total amount (positive)
partner	DICT	Yes	Partner's information
invoice_lines	ARRAY(DICT)	Yes	Invoice lines' information
payments	ARRAY(DICT)	No	Invoice payments' information (not through bank)
location	STRING (5)	No	Products' location, e.g. „WH"
use_credit	BOOLEAN	No	Indication, if invoice should be reconciled with existing payments
comment	STRING	No	Invoice note

Partner's information structure (*partner*):

Field	Type	Required	Description
name	STRING	Yes	Partner name
is_company	BOOLEAN	No	Indication, if partner is a company
company_code	STRING	Yes*	Company/person code; required if partner is a company, registered in Lithuania or partner is not registered in Lithuania and parameter in company settings „Allow empty partner code in API" = No
language	STRING	No	Clients's invoice printing language, possible values: • „LT" – Lithuanian • „EN" – English
vat_code	STRING	No	VAT payer code
street	STRING	No	Address
city	STRING	No	City
zip	STRING	No	Postal code
country	STRING (2)	No	Country ISO code consisting of 2 characters, e.g. "LT"; if no value is provided, LT is set by default
phone	STRING	No	Phone
email	STRING	No	E-mail
bank_account	DICT	No	Bank account information

Bank account structure (*bank_account*):

Field	Type	Required	Description
acc_number	STRING	Yes	Bank account number
bank_name	STRING	No*	Bank name
bank_code	STRING	No*	Bank code
bic	STRING	No*	BIC

* If a bank account with the provided account number does not yet exists in the system, then the fields *bank_name, bank_code* and *bic* are required to create new bank account of partner.

Invoice lines' structure (*invoice_lines*):

Field	Type	Required	Description
product	STRING	Yes*	Product description; it is required to specify product description or product ID
product_id	INTEGER	Yes*	Product ID; it is required to specify product ID or product description
product_code	STRING	No	Product code
description	STRING	No	Invoice line description
price*	FLOAT	Yes*	Price per unit without VAT (price with or without VAT should be specified, not both) (positive)
price_with_vat*	FLOAT	Yes*	Price per unit with VAT (price with or without VAT should be specified, not both) (positive)
qty	FLOAT	Yes	Quantity (positive)
vat	FLOAT	No	Total VAT amount (positive)
vat_code	STRING	Yes	VAT code, e.g. „PVM1"
discount	FLOAT	No	Discount percentage for the line. Positive numeric value between 1 and 99.
analytic_code	STRING	No	Analytic account code
account_code	STRING	No	General ledger account code
deferred	BOOLEAN	No	Indicator, if the invoice line amount is deferred
defer_start_date	DATE	Yes*	Invoice line amount defer period start date; required if the invoice line amount is deferred
defer_number_of_months	INTEGER	Yes*	Number of months in invoice line amound defer period; required if the invoice line amount is deferred

* All invoice line amounts should be described using the price field or the price_with_vat field. There shouldn't be a mix of both for a single invoice.

When a product which is not present in the application is specified in invoice line, new product is only created if the parameter in company settings „Allow new products in API" = Yes.

Invoice payments' structure (*payments*):

Field	Type	Required	Description
payer	STRING	Yes	Payer
amount	FLOAT	Yes	Amount (positive)

date	STRING	Yes	Transaction date
ref	STRING	No	Payment reference
name	STRING	No	Additional information
currency	STRING (3)	Yes*	Currency ISO code, e.g. „EUR"; required if it is not default company currency
journal_code	STRING (5)	No	Payment journal code, e.g. „TEST1"
journal_name	STRING	No	Payment journal name

Request example:

```json
{
  "secret": "",
  "journal": "INV",
  "date_invoice": "2020-03-01",
  "due_date": "2020-03-14",
  "number": "INV00001",
  "currency": "EUR",
  "subtotal": 100.0,
  "tax": 21.0,
  "total": 121.0,
  "partner": {
    "name": "Client Name",
    "is_company": true,
    "company_code": "123456789",
    "vat_code": "LT123456715",
    "street": "Street 1",
    "city": "Vilnius",
    "zip": "LT-12345",
    "country": "LT",
    "phone": "+370612345678",
    "email": "email@email.com",
    "bank_account": {
      "bank_name": "Swedbank",
      "bank_code": "73000",
      "bic": "HABALT22",
      "acc_number": "LT601010012345678901"
    },
  },
  "invoice_lines": [
    {
      "product": "Services",
      "product_code": "PR001",
      "description": "Services on contract no. X",
      "price": 100.0,
      "qty": 1.0,
      "vat": 21.0,
      "vat_code": "PVM1"
    }
  ],
  "payments": [
    {
      "payer": "Client Name",
```

```
      "amount": 450.0,
      "date": "2020-03-01",
      "ref": "REF0001",
      "currency": "NOK",
      "name": "Additional info",
      "journal_code": "TEST1",
      "journal_name": "TEST Journal Name"
    }
  ]
}
```

3.3.2   Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.3.3   Computations

VAT amount computation and rounding

When VAT amount is computed, global rounding is used – VAT and invoice lines are grouped by VAT rate and the amount is computed from the general group of VAT rates.

Adjustments of VAT amount rounding may be done using parameter **vat**.

Example:

If invoice line amount without VAT is *103.265* and **21% VAT** is applied, the computed VAT amount should be *21.68565*. The system will allow to pass *21.68* or *21.69 vat* amount. If the computations do not match, the system will force the **vat** amount specified in the query.

VAT amount in line should have a precision of **two** digits.

3.4   Update invoice

Method: HTTP POST (JSON)

URL: /api/update_invoice

Method description: update invoice information in application.

Threaded: Yes

3.4.1   Request structure

Invoice's structure:

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
date_invoice	STRING	No	Invoice date, format YYYY-MM-DD
due_date	STRING	No	Invoice due date, format YYYY-MM-DD
registration_date	STRING	No	Invoice registration date, format YYYY-MM-DD
number	STRING	Yes	Full invoice number, e.g. „INV0001"
reference	STRING	No	Supplier reference, e.g. „ABC1111111"; the value must be without spaces
proforma	BOOLEAN	No	Indication, if invoice is proforma
skip_isaf	BOOLEAN	No	Indication, if ISAF should be skipped
draft	BOOLEAN	No	Indication, if invoice is draft
cancelled	BOOLEAN	No	Indication, if invoice is cancelled
warehouse_cost	FLOAT	No	Price in warehouse
subtotal	FLOAT	No	Invoice subtotal amount before tax (positive)
tax	FLOAT	No	Invoice tax amount (positive)
total	FLOAT	No	Invoice total amount (positive)
force_type	STRING	No	Invoice type; possible values: „in_invoice" – Purchase invoice „in_refund" – Credit purchase invoice „out_invoice" – Sales invoice „out_refund" – Credit sales invoice
language	STRING	No	Invoice printing language, possible values: • „LT" – Lithuanian • „EN" – English
currency	STRING (3)	No	Currency ISO code, e.g. „EUR"
partner	DICT	No	Partner's information
invoice_lines	ARRAY(DICT)	No	Invoice lines' information
add_payments	ARRAY(DICT)	No	New invoice payments' information (not through bank)
use_credit	BOOLEAN	No	Indication, if invoice should be reconciled with existing payments
comment	STRING	No	Invoice note

Partner's information structure (*partner*):

Field	Type	Required	Description
name	STRING	Yes	Partner name
is_company	BOOLEAN	No	Indication, if partner is a company
company_code	STRING	Yes*	Company/person code; required if partner is a company, registered in Lithuania or partner is not registered

			in Lithuania and parameter in company settings „Allow empty partner code in API" = No
language	STRING	No	Clients's invoice printing language, possible values: • „LT" – Lithuanian • „EN" – English
vat_code	STRING	No	VAT payer code
street	STRING	No	Address
city	STRING	No	City
zip	STRING	No	Postal code
country	STRING (2)	No	Country ISO code consisting of 2 characters, e.g. "LT"; if no value is provided, LT is set by default
phone	STRING	No	Phone
email	STRING	No	E-mail
bank_account	DICT	No	Bank account information

Bank account structure (*bank_account*):

Field	Type	Required	Description
acc_number	STRING	Yes	Bank account number
bank_name	STRING	No*	Bank name
bank_code	STRING	No*	Bank code
bic	STRING	No*	BIC

* If a bank account with the provided account number does not yet exists in the system, then the fields *bank_name, bank_code* and *bic* are required to create new bank account of partner.

Invoice lines' structure (*invoice_lines*):

Field	Type	Required	Description
product	STRING	Taip	Product description; it is required to specify product description or product ID
product_id	INTEGER	Yes*	Product ID; it is required to specify product ID or product description
product_code	STRING	No	Product code
description	STRING	No	Invoice line description
price*	FLOAT	Yes*	Price per unit without VAT (price with or without VAT should be specified, not both) (positive)
price_with_vat*	FLOAT	Yes*	Price per unit with VAT (price with or without VAT should be specified, not both) (positive)
qty	FLOAT	Yes	Quantity (positive)
vat	FLOAT	No	Total VAT amount

vat_code	STRING	Yes	VAT code, e.g. „PVM1"
discount	FLOAT	No	Discount percentage for the line. Positive numeric value between 1 and 99.
analytic_code	STRING	No	Analytic account code
account_code	STRING	No	General ledger account code
deferred	BOOLEAN	No	Indicator, if the invoice line amount is deferred
defer_start_date	DATE	Yes*	Invoice line amount defer period start date; required if the invoice line amount is deferred
defer_number_of_months	INTEGER	Yes*	Number of months in invoice line amound defer period; required if the invoice line amount is deferred

* All invoice line amounts should be described using the price field or the price_with_vat field. There shouldn't be a mix of both for a single invoice.

New payments' structure (*add_payments*):

Field	Type	Required	Description
payer	STRING	Yes	Payer
amount	FLOAT	Yes	Amount (positive)
date	STRING	Yes	Transaction date
ref	STRING	No	Payment reference
name	STRING	No	Additional information
currency	STRING (3)	Yes*	Currency ISO code, e.g. „EUR"; required if it is not default company currency
journal_code	STRING (5)	No	Payment journal code, e.g. „TEST1"
journal_name	STRING	No	Payment journal name

Request example:

```
{
  "secret": "",
  "number": "INV00001",
  "add_payments": [
    {
      "payer": "Client Name",
      "date": "2020-03-07",
      "amount": 200.0,
      "ref": "REF0002",
      "currency": "NOK",
      "name": "Additional payment info",
      "journal_code": "TEST1"
    }
  ]
}
```

3.4.2 Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.5 Cancel invoice

Method: HTTP POST (JSON)

URL: /api/cancel_invoice

Method description: cancel invoice in application.

Threaded: Yes

3.5.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
reference	STRING	Yes*	External invoice number, used for supplier invoices; required if number is not provided, e.g. „ROBO123"
number	STRING	Yes*	Invoice number, used for client invoices; required if reference and partner reference are not provided, e.g. „ROBO123"
partner_reference	STRING	Yes*	Partner code or partner name; required if number is not provided, e.g. „123456789"
delete_payment	BOOLEAN	Ne	Indication, if payments of invoice should be deleted

Request example:

```
{
    "secret": "",
    "reference": "ROBO123",
    "number": "ROBO123",
    "partner_reference": "123456789"
}
```

3.5.2 Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is

		returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.6　　　Delete invoice

Method: HTTP POST (JSON)

URL: /api/unlink_invoice

Method description: delete invoice in application.

Threaded: Yes

3.6.1　　　*Request structure*

When calling this method the parameters should be set according to invoice type.

Supplier invoice

Parameters **partner_code** and **reference** should be set. **reference** is invoice number provided by supplier and **partner_code** is mandatory, because different suppliers may have the same invoice sequences (numbers).

Client invoice

Parameter **move_name** should be set. **move_name** is a number created by the system and visible to the client.

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
reference	STRING	Yes*	Invoice reference, e.g. „ROBO123"; it is required to specify invoice number or invoice reference with partner code
move_name	STRING	Yes*	Invoice number, e.g. „ROBO123"; it is required to specify invoice number or invoice reference with partner code
partner_code	STRING	Yes*	Partner code, e.g. „123456789"; it is required to specify invoice number or invoice reference with partner code
delete_payment	BOOLEAN	Ne	Indication, if payments of invoice should be deleted

Request example:

```
{
  "secret": "",
  "reference": "ROBO123",
  "partner_code": "123456789"
```

3.6.2 Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.7 Create product

Method: HTTP POST (JSON)

URL: /api/create_product

Method description: create new products in application.

Threaded: Yes

3.7.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
name	STRING	Yes	Product name
type	STRING	No	Product type; possible values: • „product" – Product • „service" – Service
default_code	STRING	No	Internal product code, e.g. „PROD0001"
barcode	STRING	Yes*	Product barcode; required if product is imported in RASO, e.g. „123456789012"
vat_code	STRING	Yes	VAT code, e.g. „PVM1"
categ_id	INTEGER	No	Product category ID, e.g. 4
price	FLOAT	No	Price per unit without VAT
sync_price	BOOLEAN	No	Indication, if price should be synchronized if product is imported to RASO
price_with_vat	FLOAT	Yes*	Price per unit with VAT; required if product is imported to RASO and its price should be synchronized
intrastat_code	STRING(8)	No	CN8 intrastat code
intrastat_description	STRING	No	Intrastat code description
product_intrastat_description	STRING	No	Product intrastat description
origin_country	STRING(2)	No	Product country of origin ISO code consisting of 2 symbols, e.g. "LT"

Request example:

```
{
  "secret": "",
  "name": "New Product Name",
  "type": "product",
  "default_code": "PROD0001",
  "barcode": "123456789012",
  "vat_code": "PVM1",
  "categ_id": 4,
  "price": 15.0,
  "sync_price": true,
  "price_with_vat": 18.0
}
```

3.7.2 Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.8 Update product

Method: HTTP POST (JSON)

URL: /api/update_product

Method description: update products in application.

Threaded: Yes

3.8.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
product_id	INTEGER	Yes	Product identification
name	STRING	No	Product name
type	STRING	No	Product type; possible values: • „product" – Product • „service" – Service
default_code	STRING	No	Internal product code, e.g. „PROD0001"
barcode	STRING	No	Product barcode
vat_code	STRING	No	VAT code, e.g. „PVM1"
categ_id	INTEGER	No	Product category ID, e.g. 4
price	FLOAT	No	Price per unit
intrastat_code	STRING(8)	No	CN8 intrastat code
intrastat_description	STRING	No	Intrastat code description
product_intrastat_description	STRING	No	Product intrastat description
origin_country	STRING(2)	No	Product country of origin ISO code consisting of 2 symbols, e.g. "LT"

Request example:

```json
{
  "secret": "",
  "product_id": 15,
  "name": "Product name",
  "type": "product",
  "default_code": "PROD0001",
  "barcode": "123456789012",
  "vat_code": "PVM1",
  "categ_id": 4,
  "price": 15.0,
}
```

3.8.2 Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.9 Get new products

Method: HTTP POST (JSON)

URL: /api/new_products

Method description: get a list of new products, created or updated in specified date range.

Threaded: Yes

3.9.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
date_from	STRING	Yes	Request date range start, format YYYY-MM-DD HH:MM:SS
date_to	STRING	Yes	Request date range end, format YYYY-MM-DD HH:MM:SS
data_type	STRING	No	Indication, what date range should be used, possible values: • „create" - products are created in specified date range • „modify" - products are updated in specified date range Data type is set to „create" by default

Request example:

```
{
  "secret": "",
  "date_from": "2020-01-01 00:00:00",
  "date_to": "2020-01-31 00:00:00"
}
```

3.9.2 Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.
data	ARRAY(DICT)	New products' information is provided

New products' information structure (*data*):

Field	Type	Description
name	STRING	Product name
code	STRING	Product code
barcode	STRING	Product barcode
image	STRING	Product image in binary
default_sale_taxes	STRING	Product sale tax codes
default_purchase_taxes	STRING	Product purchase tax codes
category_id	INTEGER	Product category ID
type	STRING	Product type
public_price	FLOAT	Product price
date_create	STRING	Product creation date, format YYYY-MM-DD HH:MM:SS

3.10 Write off products

Method: HTTP POST (JSON)

URL: /api/write_off_products

Method description: write off products

Threaded: Yes

3.10.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
name	STRING	Yes	Products write off name
warehouse_code	STRING	Yes	Warehouse code
committee	STRING	Yes	Committee name
accounting_date	STRING	Yes	Accounting date
reason_line	STRING	Yes	Write off reason
account_code	STRING	No*	Account code
analytic_code	STRING	No	Analytic account code
products	ARRAY(DICT)	Yes	List of products

* If the account code is not provided, the account will be set based on the write off reason selected.

List of products structure:

Field	Type	Required	Description
code	STRING	Yes	Product code
consumed_qty	FLOAT	No*	Consumed quantity*

* If the consumed quantity is not provided then the entire residual product quantity will be written off. If a negative value is given, then the product stock will decrease, if a positive value is given – it will increase.

Request example:

```
{
  "secret": "",
  "name": "Inventory name",
  "warehouse_code": "WH",
  "committee": "Committee",
  "accounting_date": "2020-01-31",
  "reason_line": "Reason",
  "analytic_code": "XXXXX",
  "products": [
      {
          "code": "XXXXX",
          "consumed_qty": -1.00,
      }
```

```
],
}
```

3.10.2   Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.11   Get product categories

Method: HTTP POST (JSON)

URL: /api/product_categories

Method description: get a full list of categories of products.

Threaded: Yes

3.11.1   Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs

Request example:

```
{
  "secret": ""
}
```

3.11.2   Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.
data	ARRAY(DICT)	Product categories' information is provided.

Product categories' information structure (*data*):

Field	Type	Description
name	STRING	Category name
id	INTEGER	Category ID

3.12 Get invoice

Method: HTTP POST (JSON)

URL: /api/get_invoice

Method description: get information of the invoice.

Threaded: No

Fields with **[S]** flag will only be returned if **stock module** is installed in the system.

3.12.1 Request structure

When calling this method the parameters should be set according to invoice type.

Supplier invoice

Parameters **partner_code** and **invoice_reference** should be set.
invoice_reference is invoice number provided by supplier and **partner_code** is mandatory, because different suppliers may have the same invoice sequences (numbers).

Parameter **invoice_number** is the internal robolabs number and not the one provided by the supplier. To find supplier invoice by its supplier number **invoice_reference** and **partner_code** parameters should be used.

Client invoice

Parameter **invoice_number** should be set. **invoice_number** is a number created by the system and visible to the client.

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
invoice_id	INTEGER	Yes*	Invoice identificator; it is required to specify invoice identificator or invoice number or invoice comment or invoice reference with partner code
invoice_number	STRING	Yes*	Invoice number; it is required to specify invoice identificator or invoice number or invoice comment or invoice reference with partner code
invoice_reference	STRING	Yes*	Invoice reference provided by supplier; it is required to specify invoice identificator or invoice number

			or invoice comment or invoice reference with partner code
partner_code	STRING	Yes*	Invoice partner code; required when invoice reference is specified
comment	STRING	Yes*	Additional invoice information; it is required to specify invoice identificator or invoice number or invoice comment or invoice reference with partner code
pdf	BOOLEAN	No	Indication, if a PDF copy of invoice encoded in base64 format should be provided

Request example:

```
{
    "secret": "",
    "invoice_id": 786,
    "invoice_number": "TEST-14789",
    "invoice_reference": "TEST-14789",
    "partner_code": "378965478"
}
```

3.12.2   Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
status_text	STRING	Details of the status code are provided.
data	DICT	Invoice's information is provided.

Invoice's information structure (*data*):

Field	Type	Description
state	STRING	Invoice status
number	STRING	Full invoice number
date_invoice	STRING	Invoice date
date_due	STRING	Invoice due date
currency	STRING (3)	Invoice currency ISO code, e.g. „EUR"
partner_name	STRING	Partner name
partner_code	STRING	Partner code
type	STRING	Invoice type
invoice_lines	ARRAY(DICT)	Invoice lines' information
payments	ARRAY(DICT)	Invoice payments' information (not through bank)
amount_total_company_c	FLOAT	Total invoice amount in the currency of the

Field	Type	Description
urrency		company
amount_untaxed_company_currency	FLOAT	Untaxed invoice amount in the currency of the company
amount_tax_company_currency	FLOAT	Invoice tax amount in the currency of the company
amount_residual_company_currency	FLOAT	Invoice amount due in the currency of the company
amount_total_invoice_currency	FLOAT	Total invoice amount in the currency of the invoice
amount_untaxed_invoice_currency	FLOAT	Untaxed invoice amount in the currency of the invoice
amount_tax_invoice_currency	FLOAT	Invoice tax amount in the currency of the invoice
amount_residual_invoice_currency	FLOAT	Invoice amount due in the currency of the invoice
amount_total_cost	FLOAT	Total prime cost of the stockable invoice products *[S]*
amount_total_gross_profit	FLOAT	Total gross profit of the invoice *[S]*
pdf	STRING	PDF file copy of invoice encoded in base64 format

Invoice lines' information structure (*invoice_lines*):

Field	Type	Description
product	STRING	Product description
price	FLOAT	Price per unit without VAT
qty	FLOAT	Quantity
vat_code	STRING	VAT code
vat	FLOAT	Total VAT amount
price_with_vat	FLOAT	Price per unit with VAT
gross_profit	FLOAT	Gross profit of the stockable product *[S]*
cost	FLOAT	Prime cost of the stockable product *[S]*

Invoice payments' information structure (*payments*):

Field	Type	Description
payer	STRING	Payer
amount	FLOAT	Amount
date	STRING	Transaction date
ref	STRING	Payment reference
name	STRING	Additional information
journal_code	STRING (5)	Journal code
journal_name	STRING	Journal name

3.13 Get invoices

Method: HTTP POST (JSON)

URL: /api/get_invoice_list

Method description: get a list of invoices.

Threaded: Yes

3.13.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
date_from	STRING	Yes*	Invoice creation/modification date range start, format YYYY-MM-DD HH:MM:SS; either creation/modification or invoice date range should be provided
date_to	STRING	Yes*	Invoice creation/modification date range end, format YYYY-MM-DD HH:MM:SS; either creation/modification or invoice date range should be provided
data_type	STRING	No	Indication, what date range should be used, possible values: • „create" - invoices are created in specified date range • „modify" - invoices are updated in specified date range Data type is set to „create" by default
invoice_date_from	STRING	Yes*	Invoice date range start, format YYYY-MM-DD; either creation/modification or invoice date range should be provided
invoice_date_to	STRING	Yes*	Invoice date range end, format YYYY-MM-DD; either creation/modification or invoice date range should be provided

Request example:

```
{
  "secret": "",
  "date_from": "2020-01-01 00:00:00",
  "date_to": "2020-01-31 00:00:00"
}
```

3.13.2 Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
status_text	STRING	Details of the status code are provided.
data	ARRAY(DICT)	Invoices' information is provided.

Invoice's information structure (*data*):

Field	Type	Description
state	STRING	Invoice status
number	STRING	Full invoice number
date_invoice	STRING	Invoice date
date_due	STRING	Invoice due date
currency	STRING (3)	Invoice currency ISO code, e.g. „EUR"
partner_name	STRING	Partner name
partner_code	STRING	Partner code
type	STRING	Invoice type
invoice_lines	ARRAY(DICT)	Invoice lines' information
payments	ARRAY(DICT)	Invoice payments' information (not through bank)
amount_total_company_currency	FLOAT	Total invoice amount in the currency of the company
amount_untaxed_company_currency	FLOAT	Untaxed invoice amount in the currency of the company
amount_tax_company_currency	FLOAT	Invoice tax amount in the currency of the company
amount_residual_company_currency	FLOAT	Invoice amount due in the currency of the company
amount_total_invoice_currency	FLOAT	Total invoice amount in the currency of the invoice
amount_untaxed_invoice_currency	FLOAT	Untaxed invoice amount in the currency of the invoice
amount_tax_invoice_currency	FLOAT	Invoice tax amount in the currency of the invoice
amount_residual_invoice_currency	FLOAT	Invoice amount due in the currency of the invoice
amount_total_cost	FLOAT	Total prime cost of the stockable invoice products **[S]**
amount_total_gross_profit	FLOAT	Total gross profit of the invoice **[S]**
pdf	STRING	PDF file copy of invoice encoded in base64 format

Invoice lines' information structure (*invoice_lines*):

Field	Type	Description
product	STRING	Product description
price	FLOAT	Price per unit without VAT
qty	FLOAT	Quantity
vat_code	STRING	VAT code
vat	FLOAT	Total VAT amount
price_with_vat	FLOAT	Price per unit with VAT
gross_profit	FLOAT	Gross profit of the stockable product *[S]*
cost	FLOAT	Prime cost of the stockable product *[S]*

Invoice payments' information structure (*payments*):

Field	Type	Description
payer	STRING	Payer
amount	FLOAT	Amount
date	STRING	Transaction date
ref	STRING	Payment reference
name	STRING	Additional information
journal_code	STRING (5)	Journal code
journal_name	STRING	Journal name

3.14 Get products in a warehouse

Method: HTTP POST (JSON)

URL: /api/products

Method description: get a list of products and their quantities in a warehouse.

Threaded: Yes

3.14.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
warehouse	STRING	Yes	Warehouse

Request example:

```
{
  "secret": "",
  "warehouse": "WH"
}
```

3.14.2 Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.
data	ARRAY(DICT)	Products' information is provided

Products' information structure (*data*):

Field	Type	Description
name	STRING	Product name
code	STRING	Product code
barcode	STRING	Product barcode
qty_on_hand	FLOAT	Available product quantity
qty_forecasted	FLOAT	Forecasted product quantity
public_price	FLOAT	Product price
avg_cost	FLOAT	Average product price
category_id	INTEGER	Product category ID

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3.15 Create product category

Method: HTTP POST (JSON)

URL: /api/create_product_category

Method description: create new product category.

Threaded: Yes

3.15.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
name	STRING	Yes	Category name
type	STRING	Yes	Category type, possible values: • „products" • „services" • „cost_adjustments"
intrastat_code	STRING(8)	No	CN8 intrastat code
intrastat_description	STRING	No	Intrastat code description

Request example:

```
{
  "secret": "",
  "name": "XXX",
  "type": "products",
}
```

3.15.2 Response structure

Response: Robo_response

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.
data	DICT	Category's information is provided

Category's information structure (*data*):

Field	Type	Description
id	INTEGER	Identification of created product category

3.16 Update product category

Method: HTTP POST (JSON)

URL: /api/update_product_category

Method description: update existing product category.

Threaded: Yes

3.16.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
categ_id	INTEGER	Yes	Category identificator
name	STRING	No	Category name
type	STRING	No	Category type, possible values: • „products" • „services" • „cost_adjustments"
intrastat_code	STRING(8)	No	CN8 intrastat code
intrastat_description	STRING	No	Intrastat code description

Request example:

```
{
  "secret": "",
  "categ_id": 5,
  "name": "XXX",
  "type": "products",
}
```

3.16.2 Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.17 Create partner payments

Method: HTTP POST (JSON)

URL: /api/create_partner_payments

Method description: submit partner payments to ROBO accounting application.

Threaded: Yes

3.17.1 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
name	STRING	Yes	Partner name
is_company	BOOLEAN	No	Indication, if partner is a company
company_code	STRING	Yes*	Company/person code; required if partner is a company, registered in Lithuania and parameter in company settings „Allow empty partner code in API" = No
vat_code	STRING	No	VAT payer code
street	STRING	No	Address
city	STRING	No	City
zip	STRING	No	Postal code
country	STRING (2)	No	Country ISO code consisting of 2 characters, e.g. "LT"
phone	STRING	No	Phone
email	STRING	No	E-mail
payments	ARRAY(DICT)	No	Payments' information (not through bank)

Partner payments' structure (*payments*):

Field	Type	Required	Description
payer	STRING	Yes	Payer
amount	FLOAT	Yes	Amount (positive)
date	STRING	Yes	Transaction date
ref	STRING	Yes	Payment reference
name	STRING	No	Additional information
currency	STRING (3)	Yes*	Currency ISO code, e.g. „EUR"; required if it is not default company currency
journal_code	STRING (5)	No	Payment journal code, e.g. „TEST1"
journal_name	STRING	No	Payment journal name

Request example:

```json
{
  "secret": "",
  "name": "Client Name",
  "is_company": true,
  "company_code": "123456789",
  "payments": [
    {
      "payer": "Client Name",
      "amount": 165.0,
      "date": "2020-03-01",
      "ref": "REF0001",
      "name": "Additional info",
    },
    {

      "payer": "Client Name",
      "amount": 125.0,
      "date": "2020-03-02",
      "ref": "REF0002",
      "name": "Some additional info",
    },
  ]
}
```

3.17.2   Response structure

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.

3.17 Add invoice document

Method: HTTP POST (JSON)

URL: /api/add_invoice_document

Method description: attach PDF document to invoice.

Threaded: Yes

3.17.2 Request structure

Field	Type	Required	Description
secret	STRING	Yes	Identification, unique number provided by RoboLabs
invoice_id	INTEGER	Yes*	Invoice identificator; it is required to specify invoice identificator or invoice number or invoice reference with partner code
invoice_number	STRING	Yes*	Invoice number; it is required to specify invoice identificator or invoice number or invoice reference with partner code
invoice_reference	STRING	Yes*	Invoice reference provided by supplier; it is required to specify invoice identificator or invoice number or invoice reference with partner code
partner_code	STRING	Yes*	Invoice partner code; required when invoice reference is specified
file_name	STRING	No	File name of the document excluding file type; if not specified, invoice reference or number is set
file_data	BASE64	Yes	File data encoded in base64

Request example:

```
{
    "secret": "",
    "invoice_id": 786,
    "invoice_number": "TEST-14789",
    "invoice_reference": "TEST-14789",
    "partner_code": "378965478",
    "file_name": "TEST-14789",
    "file_data": "",
}
```

3.17.2   *Response structure*

Field	Type	Description
status_code	STRING	Request execution status. Status „200" is returned if the request was executed successfully.
error	STRING	If the status is „200", the field is empty. In case of an error, details of an exception are provided.