

Tangram REST API

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1 Technical details

Tangram API is built as RESTful-API over HTTP protocol. Encrypted HTTPS is not implemented yet, but is planned in the future releases. Client authentication is not implemented yet, it will be added later too.

For data import from API always use command „GET“. Data are returned as „body“ of HTTP-response, formatted in JSON. Empty values are not exported (in default mode), client should not consider this as error.

For data export to API always use command „POST“. Data should be provided as „body“ of HTTP-request, formatted in JSON. Empty values need not to be exported, API does not consider this as error, it takes NULLs for nonexisting values. Mandatory fields have to be provided with non-empty values.

Character set for string data is UTF-8.

API requests are usually user-customized. Examples in this documentation are only illustrational.

In case of any error, API returns error code in HTTP-status field. Code 200 is „OK“, everything else is error. Response body contains error description as plain-text. There errors are usually: wrong URL, database not connected etc. Programming errors in request scripts are sent the same way, but they are supposed only in process of developing new requests.

1.1 Supported data types

String	Text (UTF-8)
Boolean	„true“ or „false“
Number	Number with decimal point (.) and optional negative sign (-)
Date	Date in ISO format „YYYY-MM-DD“
Timestamp	Timestamp in format „YYYY-MM-DD hh:mm:ss“

1.2 Request URL/URI

`http://ip-addr:port/request_name?parameters`

- IP-address and Port, where API service is running
- Request_name, example „eshop/pricelist“
- Parameters, optional parameters of request, example „id=P0127&date_from=2018-01-01“

1.3 Author

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2 Request examples

All request examples are illustrational. Requests are usually customized for every third-party system or e-shop. API service is able to add completely new requests, in addition to ones listed here. Request scripts are stored as external files and can be added or modified without reinstalling/restarting API service.

Data Import (from API) usually contains Pricelist and Stock, sometimes also Customers list.

Data Export (to API) usually contains only Order request (order from e-shop).

2.1 Request Pricelist (GET)

Provides complete or filtered pricelist

URI: **eshop/pricelist** (all items)

or **eshop/pricelist?id=xxx** (single item)

Response body (example):

```
{
  "items":
  [
    {
      "id": "302",
      "group": "MOBIL",
      "name": "Mobilný telefón Samsung Galaxy III, Snapdragon 4xx",
      "unit": "ks",
      "pricegroup": "001",
      "pricevat": 20,
      "priceinc": 409.99,
      "priceexc": 341.65833,
      "validfrom": "2016-01-01",
      "validto": "2999-12-31"
    },
    {
      "id": "303",
      "group": "TOV",
      "name": "Sýr Olomoucké tvarůžky",
      "unit": "kg",
      "pricegroup": "001",
      "pricevat": 20,
      "priceinc": 10.50,
      "priceexc": 8.75,
      "validfrom": "2016-01-01",
      "validto": "2999-12-31"
    },
    . . .
  ]
}
```

2.2 Request Grouplist (GET)

List of item groups (field „group“ in Pricelist)

URI: **eshop/grouplist**

Response body (example):

```
{
  "items":
  [
    {
      "id": "MOBIL",
      "name": "Mobile phones and accessory"
    },
    . . .
  ]
}
```

2.3 Request Stock (GET)

Current stock quantity for all items or single item

URI: **eshop/stock** (items)

or **eshop/stock?id=xxx** (quick request for single item)

Response body (example):

```
{
  "items":
  [
    {
      "id": "302",
      "stock": 6
    },
    {
      "id": "303",
      "stock": null
    },
    . . .
  ]
}
```

2.4 Request Order (POST)

Send customer order to Tangram database

URI: **eshop/order**

Request body (example):

```
{
  "header":
  {
    "extid": "123456",           // external order ID
    "date": "2019-01-28",       // order date
    "customer": "XXXX",         // customer ID
    "branch": "XXXX",           // customer's branch ID (optional)
    "name": "XXXX",             // responsible person name
    "delivery_place": "XXXX",    // delivery place - address
    "text": "any comment ...",   // any comment
    "spedition": "GEIS",         // spedition service ID
    "payment": "COD"             // payment type ID
  },
  "rows":                       // array of rows
  [
    {
      "item": "XXXX",           // item ID
      "name": "XXXX",           // item name (optional)
      "text": "XXXX",           // comment (optional)
      "quantity": 59,           // ordered quantity
      "price_fixed": true/false, // true if price is fixed
      "priceexc": 9.83,          // unit price excluding VAT
      "priceinc": 11.80,         // unit price including VAT
      "pricevat": 20,            // VAT rate (%)
    },
    . . .
  ]
}
```

Response body (příklad)

```
{
  "result": "OK" alebo "ERROR", // result (Order saved or rejected)
  "id": "XXXXXXXXXX",           // unique order-id in Tangram database
  "text": "error text"          // error text in case of error
}
```