

Express.ru personal account API

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In order to use personal account's APIs at the Express.ru website, you have to obtain 2 keys, i.e., the authorization key, and the signature key. The keys identify the client and all requests made using these keys will be carried out on your behalf.

Do not pass the key data to anyone!

The authorization key is sent with each request to API. The authorization key is transferred via HTTP request's Authorization header.

Each request to the API should be signed. The signature is passed in the sig parameter of the query string.

The signature should be generated by the following algorithm.

md5 (client code. Query URL. GET params . POST params . signature key);

The «params» value is a concatenation of "name=value" pairs sorted in the alphabet order by "name", where "name" is the name of the parameter passed to the API function, and "value" is the value of the parameter. Separators are not

used in concatenation. The «sig» parameter is ignored in signature calculation, while all other query parameters should be used in calculation.

An example of a PHP function which returns the value of the signature.

```
function generate_signature($username, $signature_secret_key, $url, array
$get_array, array $post_array)
{
    $concat_query = $concat_post = '';
    ksort($get_array);
    foreach ($get_array as $key => $value) {
        $concat_query .= $key .
        '=' . $value;
    }
    ksort($post_array);

    foreach ($post_array as $key => $value)
    {
        $concat_post .= $key . '=' . $value;
    }
    return md5($username . $url . $concat_query . $concat_post .
    $signature_secret_key);
}
```

API functions and their parameters

When API is used, the query string contains the parameters required for retrieving the parameters of data or functions .

The data required for creating new orders, invoices or other records are sent using the **POST** method in the **data** parameter.

The **data** in the data parameter should be represented in **JSON** format.

JSON in the data parameter should be passed in a single line, without formatting.

If case of global errors and exceptions, all functions return an error in a single format.

```
{"status":"error","error":true,"errors":{"global_error":"Invalid authorization key"},"result":null}
```

Creating a purchase order and related invoices

<https://www.express.ru/api/v2/createOrder>

Query string parameters:

sig*	Query signature
-------------	-----------------

In the query string, the function receives only the value of the signature.

The data needed for creating an order and invoices are sent in **POST data** parameter in **JSON** format.

Order data are mandatory. Invoice data may be omitted. One or more invoices to the order may be passed in the array of the invoices. Fields marked with * are mandatory.

JSON schema for function

```
"isOrder": true | false | null,  
"number": null or (string) "XXXXXXXXXX",  
"pickupDate": "22-09-2015", // date to pickup  
"pickupTime": NULL, OR (string) "1300-1600" OR (string) "13:00", // time to pickup  
"sender": "Ivanov Alexander",  
"senderCity": "Moskva",  
"senderRegion": "", // (optional)  
"senderCountry": "RUSSIA", // (uppercase)  
"senderZip": "192001", // (optional)  
"senderAddress": "Yl'yanovskaya 14",  
"senderContact": "Peter Ovchinnikov",  
"senderPhone": "+0000000000",  
"recipient": "Varvara Nikitishna", "recipientCity": "Moskva",  
",  
"recipientRegion": "", // (optional)  
"recipientCountry": "RUSSIA", // (uppercase)  
"recipientZip": "192851",  
"recipientAddress": "Sadovaya 16",  
"recipientContact": "Zotov Nikolay",  
"recipientPhone": "+0000000000",  
"cargoType": "CARGO_TYPE::CARGO",  
"cargoForm": "Box", // Box, Tube, Roll  
"description": "Presents",  
"items": 1, // Number of packages in the shipment  
"weight": 1, // kg  
"volumeWeight": 2, // kg (l * n * m / 5000)  
"comment": "66 office, 2 floor",  
"clientContact": "Artem",  
"urgency": "URGENCY::STANDARD",  
"payer": "PAYER::CLIENT",  
"typeOfPayment": "PAYMENT::CASHLESS",  
"cashOnDelivery": false,  
"selfPickup": false, // the recipient takes the order from the office Express.ru  
"receivedInOffice": false, // the sender brings the order to the Express.ru office  
"boxLength": 30, // params, if cargoForm = Box, cm  
"boxWidth": 10,  
"boxHeight": 20,  
  
"rollLength": 20, // params, if cargoForm = Roll "rollRadius": 20,
```

```
"tubeLength": 10, // params, if cargoForm = Tube  
"tubeSideA": 10,  
"tubeSideB": 10,  
"tubeSideC": 10,
```

Cargo types

```
CARGO_TYPE::DOCUMENTS  
CARGO_TYPE::CARGO  
CARGO_TYPE::OVERSIZE_CARGO
```

Cargo forms

```
Box  
Roll  
Tube
```

Urgencies

```
URGENCY::STANDARD  
URGENCY::URGENT  
URGENCY::EXTRA_URGENT  
URGENCY::STANDARD_GIVEN_TIME
```

Payers

```
PAYER::CLIENT PAYER::SENDER  
PAYER::RECIPIENT
```

Payments

```
PAYMENT::CASH  
PAYMENT::CASHLESS  
PAYMENT::MINI_TERMINAL  
PAYMENT::ONE_TIME_BILL  
PAYMENT::WEB_SITE
```

Examples of function replies

An example of reply after successful creation of an order

```
{"status":"ok","error":false,"result":{"orderNumber":"Web-0000000000","invoiceNumber":"WEBN0000000000"} An example of  
reply when there is an error in the order data
```

```
{"status":"error","error":true,"errors":{"validationErrors":[error_array]}}
```

Obtaining the orders history for a period

<https://www.express.ru/api/v2/getHistory>

Query string parameters:

startDate	Period start date
toDate	Period end date
sig*	Query signature

All parameters except for the signature are optional. If the period is not specified, orders for the last 30 days are displayed.

```
{
  "status": "ok",
  "error": false,
  "result": {
    "orders": [ {
      "number": "WEBN0000000000",
      "creationDate": "2015-09-07T08:17:28Z",
      "sender": "Отправитель",
      "senderAddress": "Адрес отправителя",
      "recipient": "Получатель",
      "recipientAddress": "Адресс получателя",
      "weight": "1",
      "volumeWeight": "0",
      "urgency": "URGENCY::STANDARD",
      "payer": "PAYER::SENDER",
      "typeOfPayment": "PAYMENT::ONE_TIME_BILL",
      "payStatus": "0",
      "status": "Оформлена накладная",
      "statusCode": "00002",
      "cashOnDelivery": "0",
      "selfPickup": true,
      "receivedInOffice": true,
      "sum": "1"
    }
  ]
}
```

Obtaining order data by number <https://www.express.ru/api/v2/getOrder>

Query string parameters:

orderNumber *	The number of the order (example: WEBN1234567)
----------------------	--

sig*	Query signature
-------------	-----------------

In the query string, the function receives the order number and the value of the signature.

Examples of function reply:

```
{
  "status": "ok",
  "error": false,
  "result": {
    "order": {
      "number": "WEBN0000000000",
      "creationDate": "15.09.2015 18:51:46",
      "sender": "Отправитель",
      "senderCity": "Город отправления",
      "senderCountry": "РОССИЯ",
      "senderAddress": "Адрес отправителя",
      "senderPhone": "+0000000000",
      "senderContact": "Контакт отправителя",
      "senderComment": "Комментарий отправителя",
      "recipient": "Получатель",
      "recipientCity": "Город получения",
      "recipientCountry": "РОССИЯ",
      "recipientAddress": "Адрес получения",
      "recipientPhone": "+0000000000",
      "recipientContact": "Контакт получателя",
      "recipientComment": "Комментарий получателя",
      "status": "Оформлена накладная",
      "statusCode": "00002",
      "urgency": "URGENCY::STANDARD",
      "pickupDate": "",
      "pickupTime": "",
      "cargoType": "CARGO_TYPE::CARGO",
      "receivedInOffice": false,
      "selfPickup": false,
      "description": "Описание отправления",
      "items": 1,
      "weight": "1",
      "volumeWeight": "0",
      "typeOfPayment": "PAYMENT::CASH",
      "payer": "PAYER::SENDER",
      "sum": "369"
    }
  }
}
```

Tracking order/invoice status

<https://www.express.ru/api/v2/getTracking>

Query string parameters:

track_code *	The number of the invoice or the order, multiple numbers may be indicated, comma-separated. (Example: Web-0000123456, WEBN1234567)
---------------------	--

date	Date in a standard format, time may be specified after a space (hh:mm:ss). The statuses before this date will not be included into the selection.
sig*	Query signature

An example query answer:

```
{  
  
"status": "ok",  
"error": false,  
"result": {  
    "S477354": [  
        {  
            "date": "14.03.2013 9:23:48",  
            "status": "Груз передан на доставку курьеру. Ожидайте получения",  
            "note": "Груз передан на доставку. Курьер: Алиева Муслимат Набиевна"  
        },  
        {  
            "date": "15.03.2013 9:23:29",  
            "status": "Груз доставлен получателю",  
            "note": "Хныкина (14.03.2013 15:40:00)"  
        }  
    ],  
    "S386823": [  
        {  
            "date": "14.03.2013 9:17:08",  
            "status": "Груз передан на доставку курьеру.  
Ожидайте получения",  
            "note": "Груз передан на доставку. Курьер: Иванов Игорь Иванович  
89162631461 \u211624"  
        },  
        {  
            "date": "14.03.2013 21:32:50",  
            "status": "Груз доставлен получателю",  
            "note": "Шеркунов (14.03.2013 16:20:00)"  
        }  
    ]  
  }  
}
```

Make PDF invoice

<https://www.express.ru/api/v2/printInvoice>

Query string parameters:

orderNumber *	The number of the order (example: WEBN1234567)
sig*	Query signature

In the query string, the function receives the order number and the value of the signature.

An example query answer:

```
{"status":"ok","error":false,"result":{"invoicePDF":[pdf on base64 format]}}
```

Shipping cost calculation

<https://www.express.ru/api/office/calculate>

Query string parameters:

country_from *	<i>(string) Country of origin</i>
place_from *	<i>(string) Place of origin</i>
zip_from	<i>(int) Zipcode of origin</i>
region_from	<i>(string) Region of origin</i>
country_to *	<i>(string) Country of destination</i>
place_to *	<i>(string) Place of destination</i>
zip_to	<i>(int) Zipcode of destination</i>
region_to	<i>(string) Region of destination</i>
cargo_type *	<i>(int) Type of shipment. 1 — oversize shipment, 2 — shipment, 3 — documents</i>
weight *	<i>(float) Weight, kg.</i>

cargo_form *	<i>(int) Form of shipment 1 — tube, 2 — carton, 3 — roll</i>
box_length	<i>(float) Box length</i>
box_width	<i>(float) Box width</i>
box_height	<i>(float) Box height</i>
rulon_radius	<i>(float) Roll radius</i>
rulon_length	<i>(float) Roll length</i>
tubus_length	<i>(float) Tube side</i>
tubus_side_a	<i>(float) Tube side</i>
tubus_side_b	<i>(float) Tube side</i>
tubus_side_c	<i>(float) Tube side</i>
Items	<i>(int) Number of packages in the shipment</i>
Fragile	<i>(bool) Fragile shipment. 50% markup</i>
sig*	Query signature

Enter the points of origin and destination acc. to the All-Russian Classifier of Addresses, indicating the type of the settlement after its name. Cities, such as "Moscow city", can be entered without the type of settlement, like "Moscow".

An example query answer:

```

: {
  "status": "ok",
  "error": false,
  "result": [ {
    "id": "2784",
    "gid": "defaults",
    "group": "global",
    "name": "Базовый",
    "from": "Москва",
    "to": "СПБ", "weightId": "9",
    "type": "1",
    "docType": "1",
    "price": "620 руб.",
    "priceKG": "0.00",
    "weightFrom": "0.000", "weightTo": "1.000",
    "weightStep": "0.000",
    "typeLabel": "Стандартная",
    "dayFrom": "0",
    "dayTo": "0",
    "dayComment": "на следующий день",
    "deliveryTime": "на следующий день",
    "weight": "0.5",
  } ]
}

```

```
    "rawPrice":620,  
    "endPointPayment":true },  
  {  
    "id":"2768",  
    "gid":"defaults",  
    "group":"global",  
    "name":"Базовый",  
    "from":"Москва", "to":"СПБ",  
    "weightId":"9",  
    "type":"2",  
    "docType":"1",  
    "price":"1090 руб.",  
    "priceKG":"0.00",  
    "weightFrom":"0.000", "weightTo":"1.000",  
    "weightStep":"0.000",  
    "typeLabel":"Срочная",  
    "dayFrom":"0",  
    "dayTo":"0",  
    "dayComment":"к опред. времени",  
    "deliveryTime":"к опред. времени",  
    "weight":"0.5",  
    "rawPrice":1090,  
    "endPointPayment":true } ]  
}
```

Obtaining the array of countries and cities

https://www.express.ru/api/office/get_countries_and_citie

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Query string parameters:

sig*	Query signature
-------------	-----------------

Examples of function reply

```
[  
  {  
    "uuid": "0000176677",  
    "country": "AUSTRIA"  
  },  
  {  
    "uuid": "0000174847",  
    "country": "AZERBAIJAN",  
    "cities": [  
      {  
        "id": "0000176904",  
        "name": "Absheron"  
      },  
      {  
        "id": "0000174848",
```

```
"name": "Agdam"  
  }  
] ]  
}
```

Create consolidation

<https://www.express.ru/api/v2/createCons>

data * POST	JSON string ["WEBNXXXXXX","WEBNXXXXXX","WEBNXXXXXX"]
sig *	Query signature

www.express.ru