

API for integrating user systems

You can integrate your information system with "Virtual Mobile PBX" using the HTTP API.

Note:

You will need an authorization token (FMC Token) to use API, which you can get in "Settings" section on your "Virtual Mobile PBX" integration Web-portal, that is available by the link <https://fmc.kyivstar.ua/api/webportal> (use your "Virtual Mobile PBX" admin login and password).

Detailed call information

The interface allows you to get detailed information about the calls made by subscribers of your "Virtual Mobile PBX" for a certain period of time.

Note:

Detailed information about the calls provides only for phone numbers which has "Convergent" tariff package.

Information is provided in several formats: CSV, JSON and XML. Use a URL with appropriate methode suffix to select the data format you need.

HTTP method:

GET

Method URL:

<https://fmc.kyivstar.ua/api/cdr/v1/callstat.csv>

or

<https://fmc.kyivstar.ua/api/cdr/v1/callstat.json>

or

<https://fmc.kyivstar.ua/api/cdr/v1/callstat.xml>

Parameters:

token (required)

64-character authorization key

Example:

"868b26d121e50f3b9e715bd86e77f2d6dbef354e7a9bcdb0aae0a0868a32e4a1"

from (required)

Timestamp in format "YYYY-MM-DDTHH:MM:SS"

Start of time interval

Example: "2017-04-29T14:25:00"

to (required)

Timestamp in format "YYYY-MM-DDTHH:MM:SS"

End of time interval

Example: "2017-05-03T17:24:55"

`names` (*optional*)

Flag (possible values "on" or "off")

Adds to data subscriber's names which were found in the address book of your "Virtual Mobile PBX"

Default value - "off"

`departments` (*optional*)

Flag (possible values "on" or "off")

Adds to data subscriber's department name which were found in the address book of your "Virtual Mobile PBX"

Default value - "off"

`ownership` (*optional*)

Flag (possible values "on" or "off")

Adds to data a sign of the subscriber's belonging to an enterprise of your "Virtual Mobile PBX"

Default value - "off"

Status codes:

`200 OK`

Successful request, the response contains a file with data in the selected format

`400 Bad Request`

One of the required parameters is missing or one of the parameters has an invalid value

`403 Forbidden`

Invalid authorization key specified

`500 Internal Server Error`

Internal integration server error

Remarks:

- Timestamps are specified in the time zone Europe/Kyiv (EET/EEST)
- Maximum period of time for one request is 7 days
- Parameter `from` can't be "older" than 30 days
- One of parameters `from` or `to` can be not specified. In this case it will be automatically calculated according to one of the following formulas:
 - `from` = `to` - 7 days
 - `to` = `min`(`from` + 7 days, `now()`)

Request example:

```
GET /api/cdr/v1/callstat.json?token=868b26...32e4a1&from=2017-04-29T14:25:00&to=2017-05-03T17:24:55 H
Host: fmc.kyivstar.ua
```

Response example:

```

HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
Transfer-Encoding: chunked
Content-Disposition: attachment; filename="callstat_2017-04-29T14:25:00_2017-05-03T17:24:55.json"

{
  "calls": [
    {
      "end_timestamp": "2017-04-29 21:39:48",
      "start_timestamp": "2017-04-29 21:39:35",
      "calling_number": "0675376761",
      "duration": 14,
      "called_number": "0671234567",
    }
  ]
}

```

Request example using cURL utility:

```

curl -X GET \
  'https://fmc.kyivstar.ua/api/cdr/v1/callstat.csv?token=868b26...32e4a1&from=2017-04-29T14:25:00&to=

```

Request example on PHP:

```

<?php

$request = new HttpRequest();
$request->setUrl('https://fmc.kyivstar.ua/api/cdr/v1/callstat.csv');
$request->setMethod(HTTP_METH_GET);

$request->setQueryData(array(
    'token' => '868b26...32e4a1',
    'from' => '2017-04-29T14:25:00',
    'to' => '2017-05-03T17:24:55'
));

try {
    $response = $request->send();

    echo $response->getBody();
} catch (HttpException $ex) {
    echo $ex;
}

```

Request example on Python:

```

import requests

url = "https://fmc.kyivstar.ua/api/cdr/v1/callstat.csv"

querystring = {
    "token": "868b26...32e4a1",
    "from": "2017-04-29T14:25:00",
    "to": "2017-05-03T17:24:55"
}

response = requests.request("GET", url, params=querystring)

print(response.text)

```

Request example on Java:

```

OkHttpClient client = new OkHttpClient();

```

```
Request request = new Request.Builder()
    .url("https://fmc.kyivstar.ua/api/cdr/v1/callstat.csv?token=868b26...32e4a1&from=2017-04-29T14%3A2
    .get()
    .build();

Response response = client.newCall(request).execute();
```

Phone call initiation

The interface allows to initiate a telephone call on behalf of the subscriber of your "Virtual Mobile PBX".

Note:

Service provides only for phone numbers which has "Convergent" + "API FMC" tariff package.

Also, on the Web Portal of the integration of your "Virtual Mobile PBX", in "Settings" section, in dropdown menu "CRM Type" must be selected "OneBox".

Call initiation occurs to the following scenario:

1. PBX makes a call to the subscriber of your "Virtual Mobile PBX", on behalf of which the call is initiated;
2. The subscriber of your "Virtual Mobile PBX" answers the call (lifts the handset);
3. PBX makes a call to the destination number;
4. Further call behavior is completely the same as if the subscriber makes a call from your phone.

HTTP method:

GET

Method URL:

`https://fmc.kyivstar.ua/api/onebox/v1/originate`

Parameters:

`token` (**required**)

64-character authorization key

Example:

"868b26d121e50f3b9e715bd86e77f2d6dbef354e7a9bcdb0aae0a0868a32e4a1"

`calling_number` (**required**)

Subscriber phone number of your "Virtual Mobile PBX" on behalf of which call initiated

Example: "0671234567", "380987654321" or "+380441111111"

`called_number` (**required**)

Phone number to which a call initiating

Example: "0671234567", "380987654321" or "+380441111111"

Status codes:

`200 OK`

Successful request, "Virtual Mobile PBX" initiates a phone call

`400 Bad Request`

One of the required parameters is missed or one of the parameters has an invalid value

`403 Forbidden`

An invalid authorization key was specified, or API functionality was not activated on number of your "Virtual Mobile PBX"

500 Internal Server Error

Internal integration server error

Request example:

```
GET /api/onebox/v1/originate?token=868b26...32e4a1&calling_number=0671234567&called_number=%2B3804411
Host: fmc.kyivstar.ua
```

Response example:

```
HTTP/1.1 200 OK
```

Request example using cURL utility:

```
curl -X GET \
'https://fmc.kyivstar.ua/api/onebox/v1/originate?token=868b26...32e4a1&calling_number=0671234567&ca
```

Request example on PHP:

```
<?php

$request = new HttpRequest();
$request->setUrl('https://fmc.kyivstar.ua/api/onebox/v1/originate');
$request->setMethod(HTTP_METH_GET);

$request->setQueryData(array(
    'token' => '868b26...32e4a1',
    'calling_number' => '0671234567',
    'called_number' => '+380441111111'
));

try {
    $response = $request->send();
} catch (HttpException $ex) {
    echo $ex;
}
```

Request example on Python:

```
import requests

url = "https://fmc.kyivstar.ua/api/onebox/v1/originate"

querystring = {
    "token": "868b26...32e4a1",
    "calling_number": "0671234567",
    "called_number": "+380441111111"
}

response = requests.request("GET", url, params=querystring)
```

Example request on Java:

```
OkHttpClient client = new OkHttpClient();
```

```
Request request = new Request.Builder()
    .url("https://fmc.kyivstar.ua/api/onebox/v1/originate?token=868b26...32e4a1&calling_number=0671234")
    .get()
    .build();

Response response = client.newCall(request).execute();
```