SMS sending platform

REST API v2.04 documentation dated 2023-02-27

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Protocol Description.

API (application programming interface) is a set of tools for automating work with the service SMS-fly. API functionality allows you to quickly integrate the ability to send messages into any business.

API key - to start working with the API functionality of SMS-fly service it is necessary to generate an API key and use it when making requests. The key can be generated in the "API Settings" menu in your personal account.

This document is a description of the protocol of interaction of partner companies' software with the SMS-HTTP platform of SMS-fly service and provides the following features:

- sending short messages (SMS and Viber) to mobile customers;
- receiving information about the status of sent messages;
- receiving the current balance.

The exchange between the server and the client is performed using the **HTTPS** protocol. Data is transferred in the form of **JSON** objects.

The **POST** method of the **HTTPS** protocol is used to transfer messages. You can find out the **URL** of the request in the menu "API Settings" menu in your personal cabinet.

General structure of the request:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "SPECIALACTION",
    "data": {
    }
}
```

Request Format:

Parameter	Type of data	Description
auth	object	contains authorisation information
action	string	action to be performed
data	object	a set of necessary parameters to fulfil the request

Format of the auth field:

Parameter	Type of data	Description
key	string[36]	API key

General structure of the response.

General structure of a successful response:

```
{
    "success": 1,
    "date": "2021-12-16 17:15:25 +0200",
    "data": {
...
    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

After processing the request, the server responds with the corresponding HTTP status code - part of the first line of the server's response to HTTP requests It represents an integer of three decimal digits. The first digit indicates the state class. The response code is usually followed by a space-separated explanatory phrase in English, which explains to a person the reason for such a response.

Returned response codes by our service:

Code	Meaning	Description
200	OK («good»)	the request has been successfully accepted for processing, this status code does not indicate delivery of the message, but only the fact that the request has been processed by the server without error
400	Bad Request («invalid,incorrect request»)	the request is incorrect or incorrect data has been entered data
403	Forbidden ("forbidden (not authorised")	access denied
422	Unprocessable Entity ("unprocessable instance")	in case of errors reading the request body
500	Internal Server Error ("Internal Server Error")	an internal error occurred while processing the request server
502	Bad Gateway ("bad, faulty gateway)	the service is currently unable to fulfil your request

General structure of an answer with an error:

```
{
    "success": 0,
    "error": {
        "code": "FORBIDDEN",
        "date": "2021-02-03 04:05:06 +0200",
        "description": "",
    }
}
```

Error field format:

Parameter	Type of data	Description
code	string	error code
date	datetime	error occurrence time
description	string	may include additional information

Balance Request.

The **GETBALANCE** action is used to request a balance.

Request Structure:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "GETBALANCE",
    "data": {
    }
}
```

Request Format:

Parameter	Type of data	Description
auth	object	contains authorisation information
action	string	GETBALANCE
data	object	in this case remains empty

Server response:

```
{
    "success": 1,
    "date": "2021-12-16 17:15:25 +0200",
    "data": {
        "balance": "91.477"
    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

Format of the data field:

Parameter	Type of data	Description
balance	string	customer's current balance

Extended Balance Request.

The **GETBALANCEEXT** action is used to request a balance.

Request Structure:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "GETBALANCEEXT",
    "data": {
    }
}
```

Request Format:

Parameter	Type of data	Description
auth	object	contains authorisation information
action	string	GETBALANCE
data	object	in this case remains empty

Server response:

```
{
    "success": 1,
    "date": "2021-12-16 17:15:25 +0200",
    "data": {
        " balance ": {
            "sms": "91.477",
            "viber": "191.477"
        }

    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

Format of the data field:

Parameter	Type of data	Description
balance	object	Balance dataset

Format of the viber and sms field:

Parameter	Type of data	Description
sms	string	balance for sending SMS
viber	string	balance for sending Viber

Request a list of sender names.

To request a list of sender names, the **GETSOURCES** action.

Request Structure:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "GETSOURCES",
    "data": {
        "channels": [
            "sms", "viber"
        ]
    }
}
```

Request Format:

Parameter	Type of data	Description
auth	object	contains authorisation information
action	string	GETSOURCES
data	object	query dataset

Format of the data field:

Parameter	Type of data	Description
channels	array	message sending channels. Available values are **viber, sms.**

Server response:

```
{
    "success": 1,
    "date": "2022-11-14 18:50:11 +0200",
    "data": {
        "viber": ["Promo", "Taxi"],
        "sms": ["myAlphaName", "myAlphaName2"]
    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

Format of the data field:

Parameter	Type of data	Description
sms	array	list of sender names for sms
viber	array	list of sender names for viber

Request message cost by selected country

To request a list of sender names, the **GETPRICELIST** action.

Request Structure:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "GETPRICELIST",
    "data": {
        "channels": [
            "sms", "viber"
        ],
        "mcc": "255"
    }
}
```

Request Format:

Parameter	Type of data	Description
auth	object	contains authorisation information
action	string	GETPRICELIST
data	object	query dataset

Format of the data field:

Parameter	Type of data	Description
channels	array	message sending channels. Available values are **viber, sms.**
mcc	string	mobile country code, international country code. Ukraine 255 by default.

Server response*:*

```
{
    "success": 1,
    "date": "2022-11-14 18:50:11 +0200",
    "data": {
        "pricelist": {
            "sms": {
                "255": {
                    "00": "0.479",
                    "01": "0.478",
                    "03": "0.477",
                    "06": "0.476"
                }
            }
        }
    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

Format of the data field:

Parameter	Type of data	Description
pricelist	object	price list by selected channels, country, operators channel->mcc->mnc->price

Request message cost by selected country and operator.

To request a list of sender names, the **GETPRICE** action.

Request Structure:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "GETPRICE",
    "data": {
        "channels": [
            "sms", "viber"
        ],
        "mcc": "255",
        "mnc": "255"
    }
}
```

Request Format:

Parameter	Type of data	Description
auth	object	contains authorisation information
action	string	GETPRICELIST
data	object	query dataset

Format of the data field:

Parameter	Type of data	Description
channels	array	message sending channels. Available values are **viber, sms.**
mcc	string	mobile country code, international country code. Ukraine 255 by default.
mnc	string	mobile network code, international country code.

Server response:

```
{
    "success": 1,
    "date": "2022-11-14 18:50:11 +0200",
    "data": {
        "price": {
            "sms": {
                "255": {
                    "01": "0.478",
                }
            }
        }
    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

Format of the data field:

Parameter	Type of data	Description
price	object	price list by selected channels, country, operators channel->mcc->mnc->price

Sending message.

The **SENDMESSAGE** action is used to send a message

Request Structure:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "SENDMESSAGE",
    "data": {
        "recipient": "380501234567",
        "channels": [
            "viber",
            "sms"
        ],
        "viber": {
            "source": "MyViberSource",
            "ttl": 5,
            "text": "Viber text",
            "button": {
                "caption": "Button Caption",
                "url": "https://example.org"
            },
            "image": "https://example.org/image.png"
        },
        "sms": {
            "source": "MySMSSource",
            "ttl": 5,
            "text": "SMS text"
        }
    }
}
```

Format of the data field:

Parameter	Type of data	Description
recipient	string	the recipient's phone number in international format without +, for example, 380501234567
channels	array	message sending channels. Available values are **viber, sms**. If you specify several channels, the message is sent to the channels in order of priority. The message is sent to the next channel, if delivery to the previous channel was unsuccessful.
viber	object	sets viber message parameters
sms	object	sets SMS message parameters

When sending a viber message, a set of fields can take the following configurations: **text, image, text+button, text+button+image**.

Format of the viber field:

Parameter	Type of data	Description
source	string	VIBER sender name
ttl	int	message lifetime in minutes, takes the value from 1 to 1440 (24 hours)
text	string[1-1000]	optional field, Viber message text up to 1000 characters long
button	array	optional field, set of parameters for the button in the message
image	string	optional field, https url address to the image displayed in the message

Format of the button field:

Parameter	Type of data	Description
caption	string[30]	button inscription
url	string	url address to go to when the button is clicked

Format of the sms field:

Parameter	Type of data	Description
source	string	VIBER sender name
ttl	int	message lifetime in minutes, takes the value from 1 to 1440 (24 hours)
flash	int	Optional. default 0 - normal message. 1 - flash message
text	string	sms text message

Example of sending only a sms message:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "SENDMESSAGE",
    "data": {
        "recipient": "380631234567",
        "channels": [
            "sms"
        ],
        "sms": {
            "source": "InfoCenter",
            "ttl": 300,
            "text": "You message text"
        }
    }
}
```

Example of sending only a Viber message:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "SENDMESSAGE",
    "data": {
        "recipient": "380501234567",
        "channels": [
            "viber"
        ],
        "viber": {
            "source": "Promo",
            "ttl": 60,
            "text": "You message text",
            "button": {
                "caption": "SuperButton",
                "url": "https://you.site/"
            },
            "image": "https://you.site/img/image.png"
        }
    }
}
```

Example of sending Viber message with alternative SMS text. If the message in Viber will not be delivered - the SMS message will be sent automatically:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "SENDMESSAGE",
    "data": {
        "recipient": "380501234567",
        "channels": [
            "viber",
            "sms"
        ],
        "viber": {
            "source": " MyViberSource ",
            "ttl": 5,
            "text": "Viber text",
            "button": {
                "caption": "Button Caption",
                "url": "https://example.org"
            },
            "image": "https://example.org/image.png"
        },
        "sms": {
            "source": "MySMSSource",
            "ttl": 5,
            "text": "SMS text"
        }
    }
}
```

Server response:

```
{
    "success": 1,
    "date": "2021-12-17 10:36:07 +0200",
    "data": {
        "messageID": "FAPI00040A3AFA000002",
        "viber": {
            "status": "ACCEPTD",
            "date": "2021-12-17 10:36:07 +0200",
            "label": "transaction:1",
            "cost": 0.750
        },
        "sms": {
            "status": "ACCEPTD",
            "date": "2021-12-17 10:36:07 +0200",
            "cost": 0.475
        }
    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

Format of the data field:

Parameter	Type of data	Description
messageID	string	unique identifier of the message in the system

viber	object	optional parameter, contains information about the status of the viber message processing status
sms	object	optional parameter, contains information about sms message processing status

Format of the viber field:

Parameter	Type of data	Description
status	string	message status, on successful processing takes ACCEPTD
date	datetime	status generation time
label	string	Takes the value **promotion** or **transaction:n**, where **n** is the is the number of the template with which the message matched
cost	string	message cost

Format of the sms field:

Parameter	Type of data	Description
status	string	message status, on successful processing takes the value ACCEPTD
date	datetime	status generation time
cost	string	message cost

Checking the message status.

The **GETMESSAGESTATUS** action is used for balance enquiry

Request Structure:

```
{
    "auth": {
        "key": "specialsecretapikey"
    },
    "action": "GETMESSAGESTATUS",
    "data": {
        "messageID": "FAPI00040A3AFA000002"
    }
}
```

Request Format:

Parameter	Type of data	Description
Auth	object	contains authorisation information
Action	string	GETMESSAGESTATUS
Data	object	in this case remains empty

Format of the data field:

Parameter	Type of data	Description
messageID	string	unique identifier of the message in the system

Server response:

```
{
    "success": 1,
    "date": "2021-12-17 10:54:37 +0200",
    "data": {
        "messageID": "FAPI00040A3AFA000002",
        "viber": {
            "status": "DELIVRD",
            "date": "2021-12-17 10:36:09"
        },
        "sms": {
            "status": "REFUND",
            "date": "2021-12-17 10:36:12"
        }
    }
}
```

Response Format:

Parameter	Type of data	Description
success	int	1 - the request was successful, 0 - an error occurred
date	datetime	response generation time
data	object	response dataset

Format of the data field:

Parameter	Type of data	Description
messageID	string	unique identifier of the message in the system
viber	object	optional parameter, contains information about viber message processing status
sms	object	optional parameter, contains information about status of sms message processing status

Format of the viber and sms field:

Parameter	Type of data	Description
status	string	message status, on successful processing takes the value ACCEPTD
date	datetime	status generation time

Supported actions table:

Parameter	Type of data	Description
GETBALANCE	string	SMS balance enquiry
GETBALANCEEXT	string	extended balance enquiry
GETSOURCE	string	retrieve a list of sender names
GETPRICE	string	mcc and mnc message cost request
GETPRICELIST	string	mcc price request
SENDMESSAGE	string	send a message
GETMESSAGESTATUS	string	message status retrieval

Message Status Table:

Parameter	Type of data	Description
ACCEPTD	string	message accepted by the system
PENDING	string	message in the queue
INPROGRESS	string	message in processing
SENT	string	message sent
DELIVRD	string	message delivered
VIEWED	string	message viewed
EXPIRED	string	message delivery time has expired
UNDELIV	string	message not delivered
STOPED	string	message stopped by the system
ERROR	string	message sending error
INSUFFICIENTFUNDS	string	insufficient funds to send this message
MODERATION	string	message is under moderation
RESERVED	string	message has been reserved by the system
REFUND	string	message is ready for refund

Table of error codes during request processing:

Parameter	Type of data	Description
INVREQUEST	string	the request is empty or has an invalid format
INVACTION	string	action is not specified or not supported
INVRECIPIENT	string	wrong recipient
INVTEXT	string	message text is missing or does not comply with as required
INVBUTTON	string	invalid button format
INVIMAGEURL	string	invalid url format
INVROUTE	string	message cannot be sent
INVSOURCE	string	unspecified or incorrect sender
INVCHANNELS	string	correct sending channels are not set
INVSMSMESSAGE	string	message for sms channel not specified
INVVIBERMESSAGE	string	message for viber channel not specified
INVMSGID	string	identifier not specified or not found