

Brosix net API

Manual

Edition EN 2.1

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1. Introduction

This document describes the Brosix network API – a set of URLs and HTTP requests that give the network administrators opportunity to remotely manage their networks. For security reasons, Brosix network API is not activated by default for the networks. If the network administrator wants to use the API he/she should contact Brosix and tell so.



2. Security

In order to manage your network safely, the access to the data in the DataBase is restricted by validating your IP address and Security key. The requested page automatically gets your IP address and compares it with the value of "**IP address**" associated with your network.

When requesting any of the pages you have to provide the security parameter "**sk**", containing the security key. This parameter will be compared with the value for the **Security key** that is associated with your network. You have to provide the parameter "**nid**", containing your Network ID.

If you want to change either your security key or the IP address of the machine that will send the requests, you should contact Brosix at netapi@brosix.com



3. Operations

All operations with the API are HTTP requests sent to the Brosix server. The response returned is a XML. The base URL for all operations is <https://secure.brosix.com/netapi/users/>

All operations are sent to the same URL providing these parameters

cmd	The command to be executed
nid	Network number
sk	Security Key

The server verifies nid, sk and the IP address the request is sent from. If they are correct it executes the command.

Example of XML response returned for successful operation:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="1">
  <user_id>1133</user_id>
</xml>
```

Example of XML response returned for failed operation:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="4" reason="Incorrect username." />
```



3.1. Add new user

You can add a new user in your network by sending the command **"add"**. You have to provide the security parameters (see the *Security* section above) and the other parameters that describe the new user:

- **cmd=add**
- **username**
- **password**
- **first_name**
- **last_name**
- **email**
- **website**
- **wph** – Work phone
- **mph** – Mobile phone
- **hph** – Home phone
- **notify**

Only the username is mandatory. All other parameters are optional.

If password is not provided, a random password will be generated for the new user account.

If **"notify"** has a value 1 an e-mail with the new account details will be sent to the e-mail address provided in **"email"** parameter.

Error code	Description
1	Success.
2	Access denied. You are not authorized for this operation.
3	There is no such a network. Please, contact the network administrator.
4	Incorrect username.
5	Network is disabled. Please, contact the network administrator.
6	Registration is forbidden. Please, contact the network administrator.
7	This username is already taken. Please, choose another one.
8	Internal server error. Please, try again later.
9	Incorrect password.

On success, this command returns the ID of the user account that was created. This ID can be used with the other commands to identify the user account.

Example:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="1">
  <user_id>1133</user_id>
</xml>
```



3.2. Update user

You can update information about a specific user using the command “**update**”. You have to provide the security parameters (see the *Security* section above), the parameter **uid** that identifies the requested user into the Database and the other parameters with the new information about the user:

- **cmd=update**
- **uid** – user ID whose data will be updated. This ID is received from “add” command
- **password**
- **first_name**
- **last_name**
- **email**
- **website**
- **wph** – Work phone
- **mph** – Mobile phone
- **hph** – Home phone

Error code	Description
1	Success.
2	Access denied. You are not authorized for this operation.
3	There is no such a network. Please, contact the network administrator.
12	Incorrect user ID.

On success, this command returns the “uid” parameter

Example:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="1">
  <user_id>1133</user_id>
</xml>
```

3.3. Delete user

You can delete a specific user using the command “**del**”. You have to provide the security parameters (see the *Security* section above) and one parameter (“**uid**”) to find the requested user into the Database.

Error code	Description
1	Success.
2	Access denied. You are not authorized for this operation.
3	There is no such a network. Please, contact the network administrator.
12	Incorrect user ID.

On success, this command returns the “uid” parameter

Example:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="1">
  <user_id>1133</user_id>
</xml>
```



3.4. Add contact

You can add a user to another user's contacts list using the command **"addcontact"**. You have to provide the security parameters (see the *Security* section above) and the other parameters:

- **uid** – user1's "*ID*"
- **cid** – user2's "*ID*"

The user2 will be added into the contacts list of user1 and user1 will be added to the contacts list of user 2.

Error code	Description
1	Success.
2	Access denied. You are not authorized for this operation.
3	There is no such a network. Please, contact the network administrator.
10	This contact already exists.
12	Incorrect user ID.

On success, this command returns the "uid" parameter

Example:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="1">
  <user_id>1133</user_id>
</xml>
```

3.5. Remove contact

You can remove contact from users contact lists using the command **"removecontact"**. You have to provide the security parameters (see the *Security* section above) and the other parameters:

- **uid** – user1's "*ID*"
- **cid** – user2's "*ID*"

The user2 will be removed from the contacts list of user1 and user2 will be removed from the contacts list of user1.

Error code	Description
1	Success.
2	Access denied. You are not authorized for this operation.
3	There is no such a network. Please, contact the network administrator.
11	There is no such a contact.
12	Incorrect user ID.

On success, this command returns the "uid" parameter

Example:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="1">
  <user_id>1133</user_id>
</xml>
```



3.6. List Users

You can get a list of all users in your IM network by using the command **"list"**. You have to provide the security parameters (see the *Security* section above).

Error code	Description
1	Success.
2	Access denied. You are not authorized for this operation.
3	There is no such a network. Please, contact the network administrator.

The result of this command is a list of all user accounts in the IM network. Each user account is listed as a XML tag with these attributes:

id	UID
un	Username
fn	First Name
ln	Last Name
em	E-Mail
w	Web site
wph	Work phone
mph	Mobile phone
hph	Home phone

IMPORTANT: Only UID and Username are guaranteed to be included in the response. All other attributes can be empty or missing.

Example:

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<xml status="1">
  <users>
    <u id="2345" un="john" fn="John" ln="Smith" em="js@company.com"
      w="" wph="12345678" mph="1220456789" hph="230456783" />
    <u id="2346" un="maria" fn="Maria" ln="Gonzalez" em="" ph="" w="" />
  </users>
</xml>
```