# Mechanism of Sending messages through Api Bitrix24

## 1) Login account

**Login window**

When running the application on the computer for the first time, the login page opens automatically. The system will prompt you to enter credentials in the fields.
The Bitrix24 address is the account address, for example test1234.bitrix24.com.
Phone or email - enter the phone number or email address you specified when you signed up for an account. The login information is usually the contact email address, but there are cases where these data are different. For example, the login in the Bitrix24 On-Premise instance is the username.

**QR code authorization**

For this method, you must be logged in to the Bitrix24 mobile app.

Click the Login with QR code button and enter your Bitrix24 address.

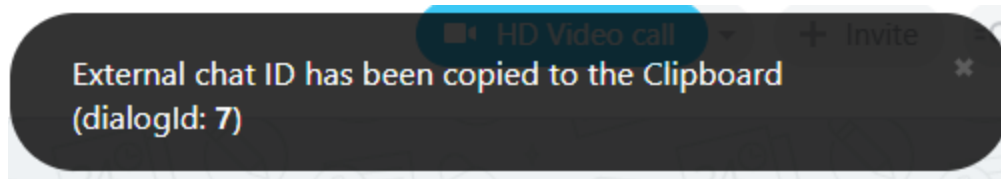The Bitrix24 Network profile page will open. You need to scan the QR code with your smartphone.

## 2) Send messages to groups or individuals

**Step 1.** Use /getDialogId to get group ID or individual ID

- Note: format dialog ID as follows:

    chatXXX – recipient's chat, in the case of chat messages
    hoặc XXX – recipient ID, in case of private chat

External chat ID has been copied to the Clipboard
(dialogId: 7)

**Step 2.** Use bitrix24 api to send group or individual messages through obtained *DialogId*

## Example api request

https://b24-l0s8tx.bitrix24.vn/rest/1/rbngel836hv0opwc/im.message.add.json?DIALOG_ID=7&MESSAGE=Hello Tài&SYSTEM=N&ATTACH&URL_PREVIEW&KEYBOARD&MENU

- Parameter

  DIALOG_ID       7                 ID

  MESSAGE         Hello Tài         Message Text

  SYSTEM          N                 Show message as a system message. Optional fields

  ATTACH          ""                Attachment

  URL_PREVIEW     ""                Convert links to rich links. Optional fields, 'Y' Default

  KEYBOARD        ""                Keyboard

  MENU            ""                Content menu

## Example api response

```
{
    "result": 839,
    "time": {
        "start": 1671782380.6114421,
        "finish": 1671782380.676615,
        "duration": 0.065172910690307617,
```
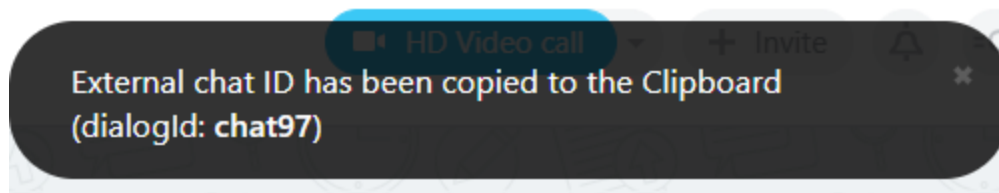
```
        "processing": 0.035943984985351562,
        "date_start": "2022-12-23T10:59:40+03:00",
        "date_finish": "2022-12-23T10:59:40+03:00",
        "operating_reset_at": 1671782980,
        "operating": 0
    }
}
```

# 3) Read messages from group chats or individuals

**Step 1.  Use** /getDialogId to get group ID or individual ID

- Note: format dialog ID as follows:
  chatXXX – recipient's chat, in the case of chat messages
  hoặc XXX – recipient ID, in case of private chat



**Step 2.** To determine which message to read, it is necessary to retrieve all the messages currently in the conversation, the newest one will appear first. Conversation with "id: 841" with status showing "unread: true" means unread message.

## Example api request

https://b24-l0s8tx.bitrix24.vn/rest/1/rbngel836hv0opwc/im.dialog.messages.get.json?DIALOG_ID=chat97

- Parameter

  DIALOG_ID            97                          ID

## Example api response

```json
{
    "result": {
        "chat_id": 97,
        "messages": [
            {
                "id": 841,
                "chat_id": 97,
                "author_id": 7,
                "date": "2022-12-23T11:05:29+03:00",
                "text": "Hello Trung",
                "unread": true,
                "uuid": null,
                "params": []
            },
            {
                "id": 835,
                "chat_id": 97,
                "author_id": 1,
                "date": "2022-12-23T10:16:45+03:00",
                "text": "Hello mọi người",
                "unread": false,
                "uuid": null,
                "params": []
            },
            {
                "id": 829,
                "chat_id": 97,
                "author_id": 1,
                "date": "2022-12-23T10:08:43+03:00",
                "text": "Hello mọi người",
                "unread": false,
                "uuid": null,
                "params": []
            },
            {
                "id": 827,
                "chat_id": 97,
                "author_id": 1,
                "date": "2022-12-23T10:07:59+03:00",
                "text": "Hello mọi người",
                "unread": false,
                "uuid": null,
                "params": []
            },
            {
                "id": 825,
                "chat_id": 97,
                "author_id": 1,
                "date": "2022-12-23T10:07:59+03:00",
```

```json
            "text": "Hello mọi người",
            "unread": false,
            "uuid": null,
            "params": []
        },
        {
            "id": 823,
            "chat_id": 97,
            "author_id": 1,
            "date": "2022-12-23T10:07:59+03:00",
            "text": "Hello mọi người",
            "unread": false,
            "uuid": null,
            "params": []
        },
        {
            "id": 821,
            "chat_id": 97,
            "author_id": 1,
            "date": "2022-12-23T10:05:20+03:00",
            "text": "Hello mọi người",
            "unread": false,
            "uuid": null,
            "params": []
        },
        {
            "id": 819,
            "chat_id": 97,
            "author_id": 1,
            "date": "2022-12-23T10:05:20+03:00",
            "text": "Hello mọi người",
            "unread": false,
            "uuid": null,
            "params": []
        },
        {
            "id": 817,
            "chat_id": 97,
            "author_id": 1,
            "date": "2022-12-23T10:05:19+03:00",
            "text": "Hello mọi người",
            "unread": false,
            "uuid": null,
            "params": []
        },
        {
            "id": 803,
            "chat_id": 97,
            "author_id": 1,
            "date": "2022-12-23T06:38:11+03:00",
            "text": "Hello mn",
            "unread": false,
            "uuid": null,
            "params": []
```

```
            },
            {
                "id": 799,
                "chat_id": 97,
                "author_id": 1,
                "date": "2022-12-23T05:42:07+03:00",
                "text": "Nghe ne",
                "unread": false,
                "uuid": null,
                "params": []
            },
            {
                "id": 797,
                "chat_id": 97,
                "author_id": 7,
                "date": "2022-12-23T05:41:13+03:00",
                "text": "alo trung oi",
                "unread": false,
                "uuid": null,
                "params": []
            },
        ],
        "users": [
            {
                "id": 7,
                "active": true,
                "name": "totantai29111973@gmail.com",
                "first_name": "totantai29111973@gmail.com",
                "last_name": "",
                "work_position": "",
                "color": "#1eb4aa",
                "avatar": "",
                "gender": "M",
                "birthday": "",
                "extranet": false,
                "network": false,
                "bot": false,
                "connector": false,
                "external_auth_id": "socservices",
                "status": "online",
                "idle": false,
                "last_activity_date": "2022-12-23T11:05:19+03:00",
                "mobile_last_date": false,
                "absent": false,
                "departments": [
                    1
                ],
                "phones": false,
                "desktop_last_date": false
            },
            {
                "id": 1,
                "active": true,
                "name": "Van Trung Nguyen",
```

```
                    "first_name": "Nguyen",
                    "last_name": "Van Trung",
                    "work_position": "",
                    "color": "#df532d",
                    "avatar": "",
                    "gender": "M",
                    "birthday": "",
                    "extranet": false,
                    "network": false,
                    "bot": false,
                    "connector": false,
                    "external_auth_id": "socservices",
                    "status": "online",
                    "idle": false,
                    "last_activity_date": "2022-12-23T11:03:50+03:00",
                    "mobile_last_date": "2022-12-22T10:53:14+03:00",
                    "absent": false,
                    "departments": [
                        1
                    ],
                    "phones": false,
                    "desktop_last_date": false
                }
            ],
            "files": []
        },
        "time": {
            "start": 1671782746.5820971,
            "finish": 1671782746.6120591,
            "duration": 0.029962062835693359,
            "processing": 0.0060329437255859375,
            "date_start": "2022-12-23T11:05:46+03:00",
            "date_finish": "2022-12-23T11:05:46+03:00",
            "operating_reset_at": 1671783346,
            "operating": 0
        }
    }
```

**Step 3.** Then select the most recent conversation to read through the Message ID parameter that was retrieved from the conversation list in step 2.

## Example api request

https://b24-l0s8tx.bitrix24.vn/rest/1/rbngel836hv0opwc/im.dialog.read.json?DIALOG_ID=chat97&MESSAGE_ID=841

- Parameter

DIALOG_ID        chat97

MESSAGE_ID        841

## Example api response

```
{
    "result": {
        "dialogId": "chat97",
        "chatId": 97,
        "lastId": 841,
        "counter": 0
    },
    "time": {
        "start": 1671783341.6182079,
        "finish": 1671783341.6528671,
        "duration": 0.034659147262573242,
        "processing": 0.010926961898803711,
        "date_start": "2022-12-23T11:15:41+03:00",
        "date_finish": "2022-12-23T11:15:41+03:00",
        "operating_reset_at": 1671783941,
        "operating": 0
    }
}
```