How to handle C2C-messages

How to use websocket to handle messages and reply:

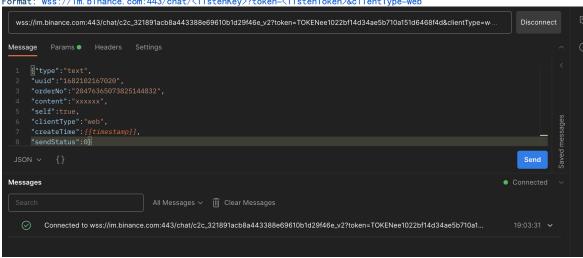
You can use GET /sapi/v1/c2c/chat/retrieveChatCredential to get credentials.

Response:

```
"code": "000000",
    "message": "success",
    "data": {
        "chatWssUrl": "wss://im.binance.com:443/chat",
        "listenKey": "c2c_321891acb8a443388e69610b1d29f46e_v2",
        "listenToken": "TOKEN4e75573ca1e44e96ba809840d05d3e03"
    "success": true
}
```

Using those endpoints you can create a websocket connection (on postman for example)

Format: wss://im.binance.com:443/chat/<listenKey>?token=<listenToken>&clientType=web



To send a new message (or reply income messages) you need follow this format:

```
"type":"text",
"uuid":"1682102167020",
"orderNo": "20476365073825144832",
"content": "xxxxxx",
"self":true,
"clientType":"web",
"createTime":\{\{timestamp\}\},
"sendStatus":0
```

Python code implementation:

```
import websocket
import json
import hmac
import time
import hashlib
import requests
from urllib.parse import urlencode
import json
BASE_URL = "https://api.binance.com" # production base url
```

```
KEY = "--"
SECRET = "----"
def hashing(query_string):
       {\tt SECRET.encode("utf-8"), query\_string.encode("utf-8"), hashlib.sha256}
    ).hexdigest()
def get_timestamp():
   return int(time.time() * 1000)
def dispatch_request(http_method):
    session = requests.Session()
   session.headers.update(
       {"Content-Type": "application/json; charset=utf-8", "X-MBX-APIKEY": KEY, "clientType": "WEB"}
   return {
       "GET": session.get,
        "DELETE": session.delete,
        "PUT": session.put,
       "POST": session.post,
    }.get(http_method, "GET")
# used for sending request requires the signature
def send_signed_request(http_method, url_path, payload={},dataLoad={}):
   query_string = urlencode(payload)
    # replace single quote to double quote
   query_string = query_string.replace("%27", "%22")
   if query_string:
       query_string = "{}&timestamp={}".format(query_string, get_timestamp())
       query_string = "timestamp={}".format(get_timestamp())
            BASE_URL + url_path + "?" + query_string + "&signature=" + hashing(query_string)
    )
    # print("{} {}".format(http_method, url))
   params = {"url": url, "params": {},"data":dataLoad}
   response = dispatch_request(http_method)(**params)
   return response
uri_path = "/sapi/v1/c2c/chat/retrieveChatCredential"
dataLoad = {}
param = {}
response = send_signed_request("GET", uri_path,param,dataLoad)
print(response)
response = response.json()
wss_url = response['data']['chatWssUrl'] + "/"+ response['data']['listenKey'] + "?token=" +\
          response['data']['listenToken'] + "&clientType=web"
# websocket.enableTrace(True)
def on message(ws, message):
   print(json.loads(message))
    return
```

How to upload an image using SAPI:

You can use POST /sapi/v1/c2c/chat/image/pre-signed-url to get "preSignedUrl" and "imageUrl" (Limited to 36 times per minute per user id)



Then use the following sample code to upload picture to "preSignedUrl" (Python example)

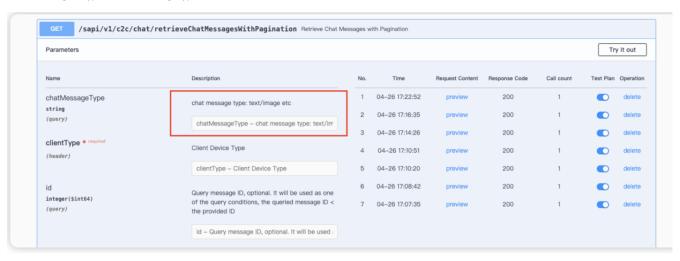
```
import requests
def upload file using presigned url(presigned url, file path):
                            with open(file_path, 'rb') as file:
                                                          response = requests.put(presigned_url, data=file)
                                                          if response.status code == 200:
                                                                                      print("File uploaded successfully.")
                                                          else:
                                                                                      print("Failed to upload file.")
if __name__ == "__main__":
                            file_to_upload = 'test.jpg'
                            presigned_url = 'https://tk-qa1-s3-bucket.s3.ap-northeast-1.amazonaws.com/tmp/client_upload/c2c/chat
/20240426/e49f32b6b337445cbd5a43f427174194\_20240426120643.jpg?X-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-Security-Amz-
Token=IQoJb3JpZ21uX2VjEHMaDmFwLW5vcnRoZWFzdC0xIkcwRQIgN%2FZs2wSCQev34zxU4rV2v2TwEWsrR%2FFNY%
2F8BEAUaDDQ2MjQ3NTYzNTQyOSIMoRnEQ1piB7%2Bb7PmgKuEEvqERwiIY1A0yNzf1xBVuMpYXi3FIMmULO9Bk%
2BkVu0fw3CIvv4Aue4k6ltNvNzk73Yz3SUxO1A%2Bth7JzmJ066fuHSNh30jONMwuNj%
2FWuyw0ruYLRsmRRgmpSIvWma5T0kFxxWgslfSOzcVT190fKJ5insVGy3YbPCXpvveJcRDM9%
2BtD2AeB6gOBgddxnkCpmbMBSQ3lrg9CcNQ6QzjfkB1XUWh%2BByxwbu4AxLp3gdquurupZZbigG12KKNEulETs9H4xq7zIx9ZVcQssDg%
2FFnDHiyl%2B1Z6n92ftc9Bd%2B0V%2BveuTkDHCdi4F8MSeYTAAJ9e7vk6XyfQ0dQ17owmJliqrbLbiBRW0TMaf0zgYUAMK1Y22sHahL1%
2804 UGv1 od LcTX aghCzdlVxkRzMbFNJZw7X \%2BqbuBeqQctXo6hI7cQBpB2QwgYZFD3 mEDynK91Z4uO51UaWFp3Fgh9 \%2BqbuBeqQctXo6hU7cQBpB2QwgYZFD3 meDynK91Z4uO51UaWFp3Fgh9 MeDynWp3Fgh9 MeDynWp3T4uU70UAWFp3Fgh9 MeDynWp3T4uU70UAWFp3Fgh9 MeDy
2FjTCB44BXnthTlmw3CWAs5VS5tZhKRO2NMHyDbBaxf5fWt5FkL4NcHg25ajF5HOt5vwi%2BShnJaDkpt8VW1ly%
2B09pmliPEgAoyFWDVxlokMqI4YndLCvGK89u2HkLkJswWziJVAmrrxlBw42IiGsQkl%2FFlpZN%2F055YloCbT0lRsjptGNxCwqx%2B8BfHl%
2FZA1bq1GzouX1WKKOyFfGa8%2B2vOPdtJcsX7OGcCKic3F0CqsfxG6P4D000ctUs03001iI0tX0%
2FwVTp8V3HDnGxWAvuxx885BPVbJ3jfIyvD3%2FtrUj54fcXrI7pPU7D2hQku5eixTGZQTFfinsGto%2FBEuAnTpgbJ3VF%
2 FTkyMMOWcrreGOpoBBlMxigsCkLMO0KiiRs \$2BEjC74AvKlg5NOsPq1d0WVRPR97rzkW18wEA5 \$2BFa1Gu1Hc5 \$2B8W184CHARRER REPRESENT FOR STANDARD REPRESENTATION FOR STANDARD REPRESENTA
2FJlVKLTbxDjsnKjPILyHbPkKAKd%2FtXrqIAh7%2FR3apZI38yWbOZs2zUp0YbxttZfUlv4upEv3EcEssI%2Fw2%
2FPJoPkvKFv441xIXItTb2Za%2FCNgAfCadZpx7rSkywSQK%2FuXEorTuMJTY73w%3D%3D&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-
Date=20240426T120643Z&X-Amz-SignedHeaders=host&X-Amz-Expires=300&X-Amz-Credential=ASIAWXLNSFLSVWTPJLFK%
2F20240426%2Fap-northeast-1%2Fs3%2Faws4_request&X-Amz-
Signature=a782bce98881900ab144c11fe4c00f786cfe0bbbff27e3754e049c1889e820a5'
                            upload_file_using_presigned_url(presigned_url, file_to_upload)
```

Lastly, send the corresponding "imageUrl" in p2p chat.

How to download an image using SAPI:

Use / sapi/v1/c2c/chat/retrieveChatMessagesWithPagination

Filter "image" type in chatMessageType



Then use the following sample code to download picture (Python example)