

## OZSMS API Document

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Version	Date Issue	Amendments
1.2	28-03-2022	Changed API URL to ozsms.net
1.3	15-07-2022	Changing to API block
1.4	16-08-2022	Adding API Settings and Package details
1.5	19-12-2022	Updating the entire document
1.6	03-01-2023	Updating the URL and add postman guide
1.7	02-02-2023	Update Base URI and Basic postman guide
1.8	23-08-2023	Update the message response
1.9	19-09-2023	Added the send message request examples

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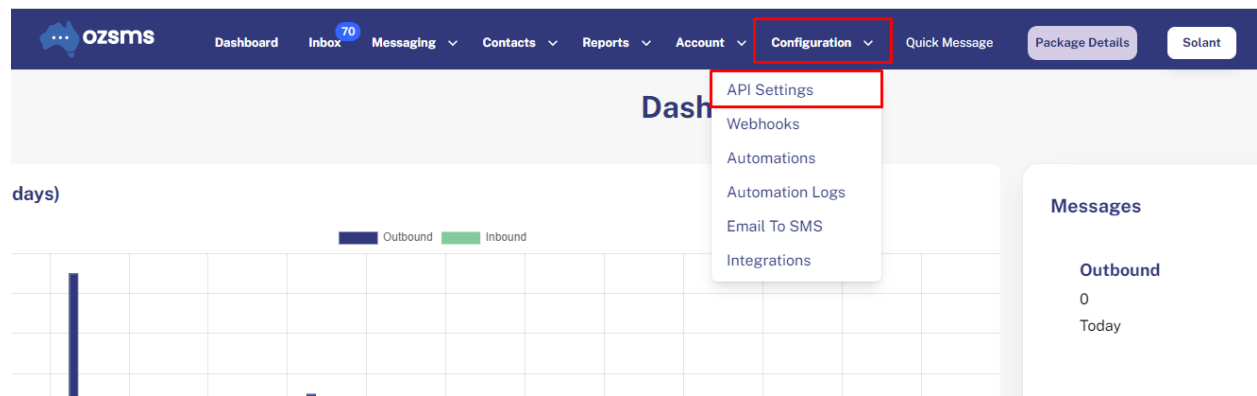
## Introduction

All API requests require a user's API credentials. All requests to the OZSMS REST API using JSON body must be authenticated. Currently OZSMS provide basic Authentication over HTTPS. Authentication credentials consist of API key and API secret. Details of authentication and credentials are provided below.

## Authentication and Authorization

All API requests require API credentials, a user will be able to find them once logged into the OZSMS Portal. An API key and API Secret is created by the user authorized to access the portal's API setting page. All requests to the OZSMS REST API must be authenticated, this can either be done using Basic Authentication or by signing with a HMAC signature as shown below. User only needs to enter their API key and API secret is auto-generated.

Note: User needs to save the API secret as it's once generated and cannot be retrieved through any medium.



### HMAC Authentication

API Credentials can be provided in a request using HTTP HMAC authentication.

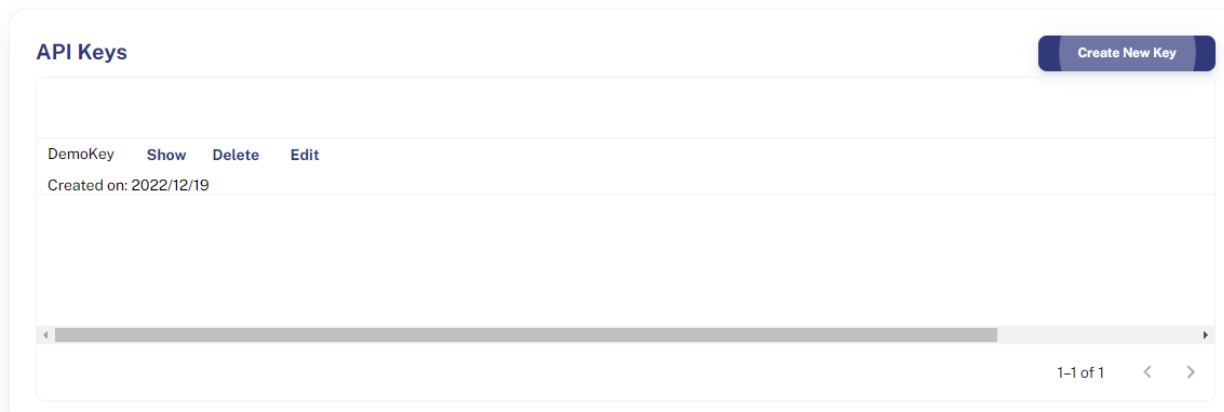


Figure 1 HMAC authentication

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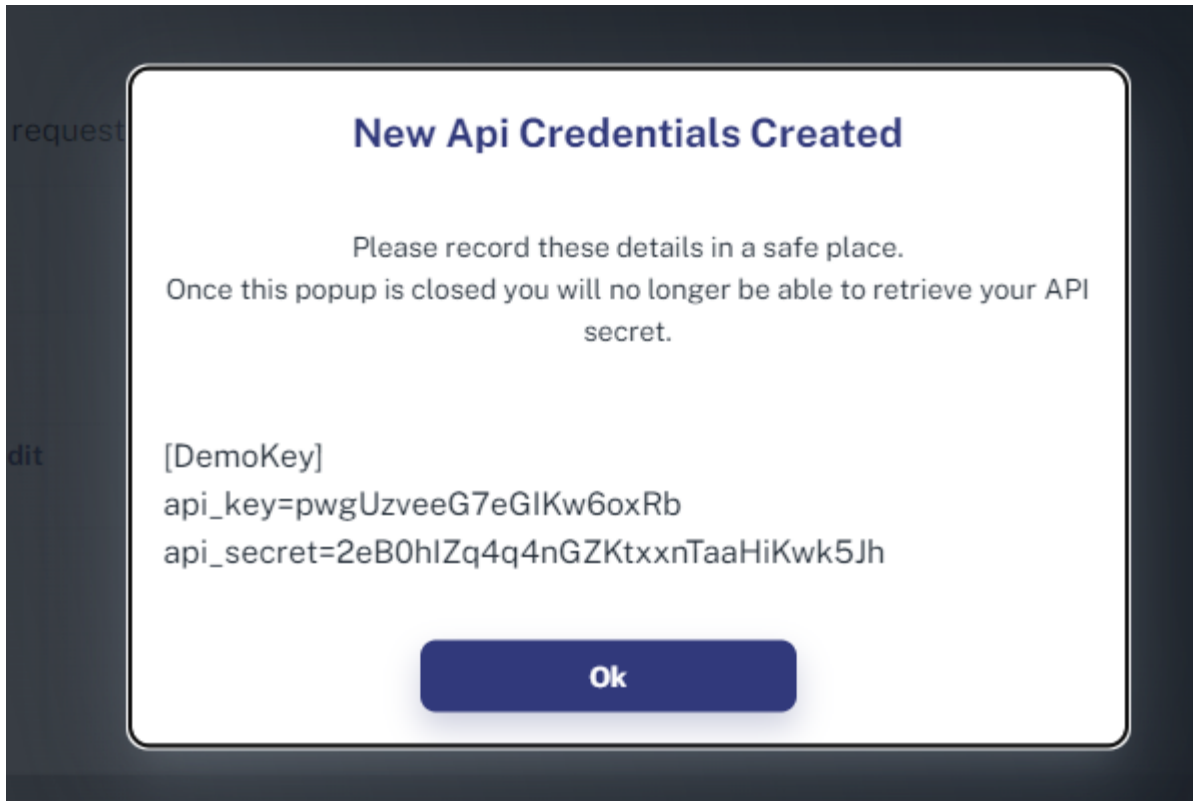


Figure 2 HMAC authentication (2)

### Basic Authentication

API Credentials can be provided in a request using HTTP basic authentication.



Figure 3 Basic Authentication

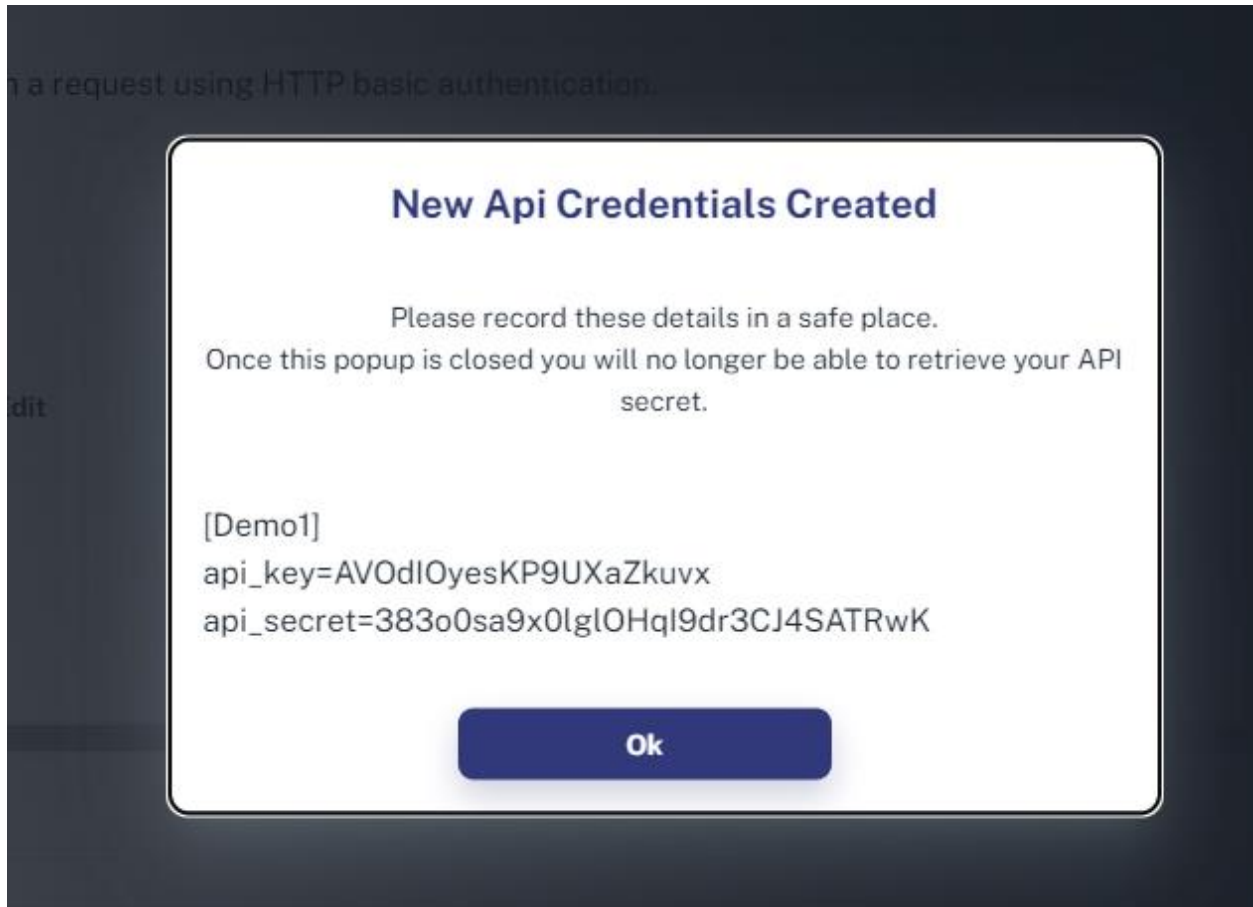


Figure 4 Basic Authentication (2)

#### Basic Authentication

API Credentials can be provided in a request using HTTP basic authentication.



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## Basic Authorization

### Base URI

The API uses the following base URI: <https://api.ozsms.net/>

Note: OZSMS strongly recommends the use of the HTTPS protocol.

### Basic\_auth

Security Scheme Type	HTTPS
HTTPS Authorization Scheme	basic

Every request requires an Authorization header in the following format:

```
Authorization: Basic Base64(username:password)
```

**HINT:** `username= apiKeyLabel & password=api_key`

**Note:** 3<sup>rd</sup> party API will not work without basic format as shown above

Where the header consists of the Basic keyword followed by your Basic Authentication `api_key` and `api_secret` that you have been supplied by support, separated with a colon (:) which is then Base64 encoded.

### Example request with Basic Authentication:

```
POST v3/message/via-smpp/tp HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
Content-Type: application/json
Content-Length: 238
```

#### Request Parameters:

```
{
  "viaSharedPool": true,
  "sourceNumber": "614xxxxxxxx",
  "messageList": [
    {
      "messageContent": "Your message ",
      "destinationNumber": "614xxxxxxxx"
    }
  ]
}
```

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### Response Parameters:

```
{
  "success": true,
  "message": "Success: Messages added to queue.",
  "data": [
    {
      "stat": 100,
      "queued": true,
      "destinationNumber": "614xxxxxxxx ",
      "sourceNumber": "614xxxxxxxx ",
      "text": "6:06 pm",
      "messageId": 712
    }
  ]
}
```

### Note:

1. A valid Basic Auth token is the first and foremost requirement. Without the Basic Auth token, no user will be able to send message using APIs.
2. "viaSharedPool": "true/false", Field can never be empty.
  - a. If a user does not have a dedicated number, they can send messages through shared pool only.
  - b. If a user wants to send message through shared pool, it is not compulsory to add a sourceNumber. However, if viaSharedPool equals to false, then the user must add a sourceNumber.
3. "destinationNumber": "614XXXXXXXX" - This field can never be empty
4. If a user wants to send message through a **Business Name**, then they should use "viaSharedPool": false and set the sourceNumber as a business name.
5. If a user wants to send message through **Your Own Number**, then they should use "viaSharedPool": false and set the sourceNumber as their own number.
6. The sourceNumber should not be +E.164. Source number format should be as follows: "sourceNumber": "614XXXXXXXX"
7. The destinationNumber can be supported in +E.164 format. For example, "destinationNumber": "+614XXXXXXXX"

### Example of send message request with viaSharedPool:

```
POST      v3/message/via-smpp/tp      HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
Content-Type: application/json
Content-Length: 238
```

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#### Request Parameters:

```
{
  "viaSharedPool": true,
  "sourceNumber": "61488888888",
  "messageList": [
    {
      "messageContent": "Your message for viaSharedPool",
      "destinationNumber": "61400000000"
    }
  ]
}
```

#### Response Parameters:

```
{
  "success": true,
  "message": "Success: Messages added to queue.",
  "data": [
    {
      "stat": 100,
      "queued": true,
      "destinationNumber": "61400000000",
      "sourceNumber": "61488888888",
      "text": "Your message for viaSharedPool",
      "messageId": 7101
    }
  ]
}
```

#### Example of send message request with dedicated number:

```
POST      v3/message/via-smpp/tp      HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
Content-Type: application/json
Content-Length: 238
```

#### Request Parameters:

```
{
  "viaSharedPool": false,
  "sourceNumber": "61499999912",
  "messageList": [
    {
      "messageContent": "Your message for dedicated
number",
```

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```
        "destinationNumber": "61498126368"
    }
  ]
}
```

#### Response Parameters:

```
{
  "success": true,
  "message": "Success: Messages added to queue.",
  "data": [
    {
      "stat": 100,
      "queued": true,
      "destinationNumber": "61498126368",
      "sourceNumber": "61499999912",
      "text": "Your message for dedicated number",
      "messageId": 7106
    }
  ]
}
```

#### Example of send message request with Business name:

```
POST      v3/message/via-smpp/tp      HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
Content-Type: application/json
Content-Length: 238
```

#### Request Parameters:

```
{
  "viaSharedPool": false,
  "sourceNumber": "EntrustICT",
  "messageList": [
    {
      "messageContent": "Your message for business name",
      "destinationNumber": "61498126368"
    }
  ]
}
```

#### Response Parameters:

```
{
  "success": true,
  "message": "Success: Messages added to queue.",
```

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```
"data": [
  {
    "stat": 100,
    "queued": true,
    "destinationNumber": "61498126368",
    "sourceNumber": "EntrustICT",
    "text": "Your message for business name",
    "messageId": 7109
  }
]
```

### Example of send message request with your own number:

```
POST v3/message/via-smpp/tp HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
Content-Type: application/json
Content-Length: 238
```

#### Request Parameters:

```
{
  "viaSharedPool": false,
  "sourceNumber": "61498126555",
  "messageList": [
    {
      "messageContent": "Your message from your own
number",
      "destinationNumber": "61498126368"
    }
  ]
}
```

#### Response Parameters:

```
{
  "success": true,
  "message": "Success: Messages added to queue.",
  "data": [
    {
      "stat": 100,
      "queued": true,
      "destinationNumber": "61498126368",
      "sourceNumber": "61498126555",
      "text": "Your message from your own number",
      "messageId": 7109
    }
  ]
}
```

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```
}  
]  
}
```

## Get Message Status By ID:

```
GET /v3/message/by-id/{messageId} HTTP/1.1
```

```
Host: api.ozsms.net
```

```
Authorization: Basic <api_secret>
```

### Response Parameters:

```
{  
  "success": true,  
  "message": "Success: Acquired data.",  
  "data": [  
    {  
      "id": 690,  
      "senderId": 1137,  
      "broadcastId": null,  
      "sourceNumber": "614XXXXXXXX",  
      "status": "Delivered",  
      "messageContent": " Your message",  
      "destinationNumber": "614XXXXXXXX",  
      "action": null,  
      "createdAt": "2022-08-02T10:10:47.000Z",  
      "updatedAt": "2022-08-02T10:11:00.000Z",  
      "broadcast": null,  
      "contactReceiver": null,  
  
      "messageDelivery": {  
        "id": 379,  
        "senderId": 1137,  
        "messageId": 690,  
        "sourceNumber": "614XXXXXXXX",  
        "status": "Delivered",  
        "mId": "971c1d058",  
        "messageContent": "Your message",  
        "destinationNumber": "614XXXXXXXX",  
        "broadcastName": null,  
        "action": null,  
        "createdAt": "2022-08-02T10:10:47.000Z",  
        "updatedAt": "2022-08-02T10:11:00.000Z"  
      }  
    }  
  ]  
}
```

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## Postman Collections:

OZSMS provides three main sources for the status check of the API request and response:

**Messages:** Delivered from any application / terminal to mobile phones.

**Delivery Reports:** Reports on delivery status of SMS. Status may change several times before it is finally delivered to a mobile phone. OZSMS can provide you with an API to get SMS delivery report data by calling an endpoint and toNumber.

**Check replies:** Check for any replies that may have been received. Replies are messages that have been sent from a handset in response to a message. OZSMS provides a dedicated number to send messages and receive replies against the dedicated number.

**Using Destination Number:** From number is the dedicated number assigned to your account. In the API you are basically checking the replies on the number form which you sent the SMS

```
GET /v3/message-delivery/by-destinationNumber/tp/{614XXXXXXXX}
HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
```

### Sample Response:

```
{
  "success": true,
  "message": "Success: Acquired data",
  "data": [
    {
      "id": 373
      "senderId": 1137,
      "messageId": 683,
      "sourceNumber": "614XXXXXXXX",
      "status": "Delivered",
      "mId": "971c1d051",
      "messageContent": "YOUR MESSAGE",
      "destinationNumber": "614XXXXXXXX",
      "broadcastName": null,
    }
  ]
}
```

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```
    "action": null,
    "createdAt": "2022-08-02T09:03:28.000Z",
    "updatedAt": "2022-08-02T09:03:37.000Z"
  },
  {
    "id": 374
    "senderId": 1137,
    "messageId": 684,
    "sourceNumber": "614XXXXXXXX",

    "status": "Delivered",
    "mId": "971c1d052",
    "messageContent": "YOUR MESSAGE",
    "destinationNumber": "614XXXXXXXX",
    "broadcastName": null,
    "action": null,
    "createdAt": "2022-08-02T09:05:02.000Z",
    "updatedAt": "2022-08-02T09:05:12.000Z"
  }
]
}
```

Note: In this example your dedicated number is 614XXXXXXXX

**Using Source Number:** Tonumber is the number on which you've sent the message from a dedicated number. In this API basically user is checking the replies from the number on which user sent the message or SMS.

```
GET/v3/message-delivery/by-sourceNumber/tp/{614xxxxxxxx} HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
```

**Sample Response:**

```
{
  "success": true,
```

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```
"message": "Success: Data acquired.",
"data": [
  {
    "id": 373
    "senderId": 1137,
    "messageId": 683,
    "sourceNumber": "614xxxxxxxx",
    "status": "Delivered",
    "mId": "971c1d051",
    "messageContent": "YOUR MESSAGE",
    "destinationNumber": "614xxxxxxxx",
    "broadcastName": null,
    "action": null,
    "createdAt": "2022-08-02T09:03:28.000Z",
    "updatedAt": "2022-08-02T09:03:37.000Z"
  },
  {
    "id": 374
    "senderId": 1137,
    "messageId": 684,
    "sourceNumber": "614xxxxxxxx",
    "status": "Delivered",
    "mId": "971c1d052",
    "messageContent": "YOUR MESSAGE",
    "destinationNumber": "614xxxxxxxx",
    "broadcastName": null,
    "action": null,
    "createdAt": "2022-08-02T09:05:02.000Z",
    "updatedAt": "2022-08-02T09:05:12.000Z"
  }
]
}
```

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*Using Combination of SourceNumber and DestinationNumber For extracting chat between two numbers:* Here the user can check replies by using the source number (toNumber) and destination number (dedicated number).

```
POST /v3/message/chat-list/by-source-and-destination/tp HTTP/1.1
Host: api.ozsms.net
Authorization: Basic <api_secret>
Content-Type: application/json
Content-Length: 80
```

**Sample Request:**

```
{
  "sourceNumber": "614xxxxxxxx",
  "destinationNumber": "614xxxxxxxx"
}
```

**Sample Response:**

```
{
  "success": true,
  "message": "Success: Data acquired",
  "data": [
    {
      "id": 373,
      "senderId": 1137,
      "messageId": 683,
      "sourceNumber": "614xxxxxxxx",
      "status": "Delivered",
      "mId": "971c1d051",
      "messageContent": "Hi, How are you.",
      "destinationNumber": "614xxxxxxxx",
      "broadcastName": null,
      "action": null,
      "createdAt": "2022-08-02T09:03:28.000Z",
      "updatedAt": "2022-08-02T09:03:37.000Z"
    },
    {
      "id": 374,
      "senderId": 25,
      "messageId": 684,
      "sourceNumber": "614xxxxxxxx",
      "status": "Delivered",
      "mId": "971c1d052",
      "messageContent": "Hello, I am fine. What is up?",
      "destinationNumber": "614xxxxxxxx",
    }
  ]
}
```

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```
        "broadcastName": null,  
        "action": null,  
        "createdAt": "2022-08-02T09:05:02.000Z",  
        "updatedAt": "2022-08-02T09:05:12.000Z"  
    },  
    {  
        "id": 375,  
        "senderId": 1137,  
        "messageId": 685,  
        "sourceNumber": "614xxxxxxxx",  
        "status": "Delivered",  
        "mId": "971c1d053",  
        "messageContent": "Not much",  
        "destinationNumber": "614xxxxxxxx",  
        "broadcastName": null,  
        "action": null,  
        "createdAt": "2022-08-02T09:07:09.000Z",  
        "updatedAt": "2022-08-02T09:07:27.000Z"  
    }  
]  
}
```

## Check Package Stats

This API allows the user to check the messages details and remaining messages with complete package details.

### Sample Request:

```
GET /v3/ message/remaining/tp' \--data-raw '' HTTP/1.1  
Host: api.ozsms.net  
Authorization: Basic <api_secret>
```

### Sample Response:

```
{  
  "success": true,  
  "message": "Success: Package details.",  
  "data": {  
    "subscriptionPackage": "Free Platform Trial",  
    "subscriptionExpiryDate": "2022-08-16T07:29:24.000Z",  
    "totalMessages": 25,  
    "usedMessages": 10,  
    "remainingMessages": 15,  
    "smsLimitPerDay": 100,  
    "smsLimitPerMonth": 500  
  }  
}
```

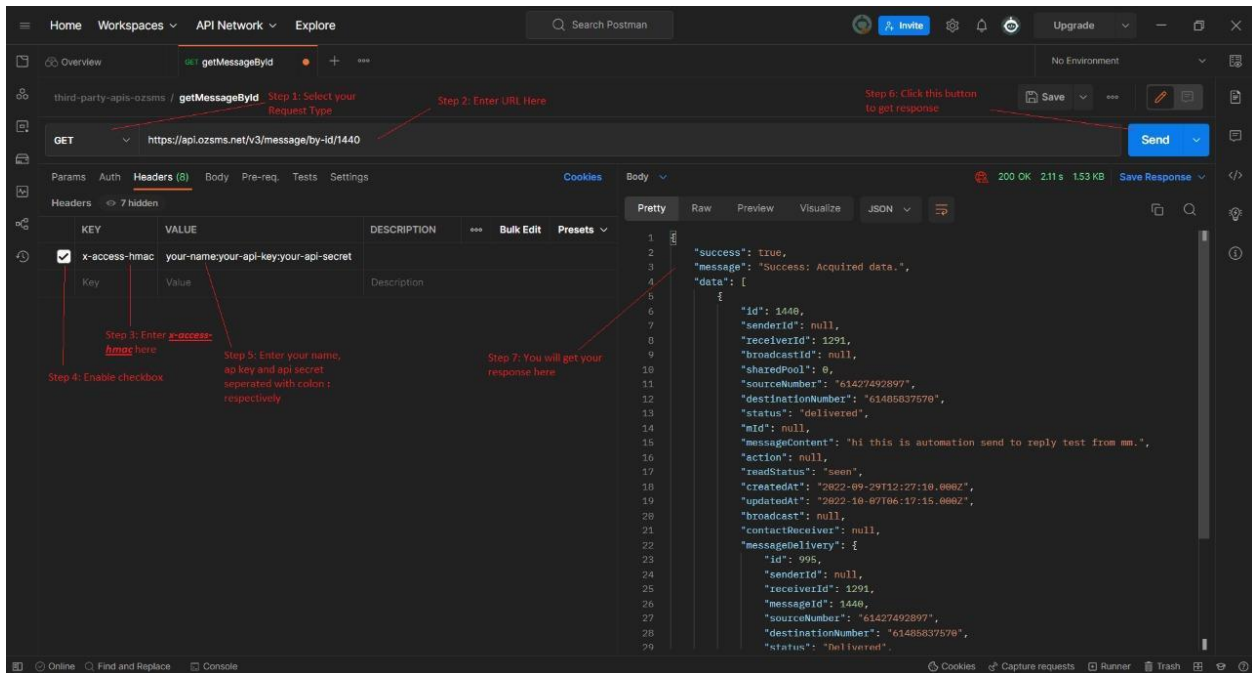
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## How to implement HMAC on postman

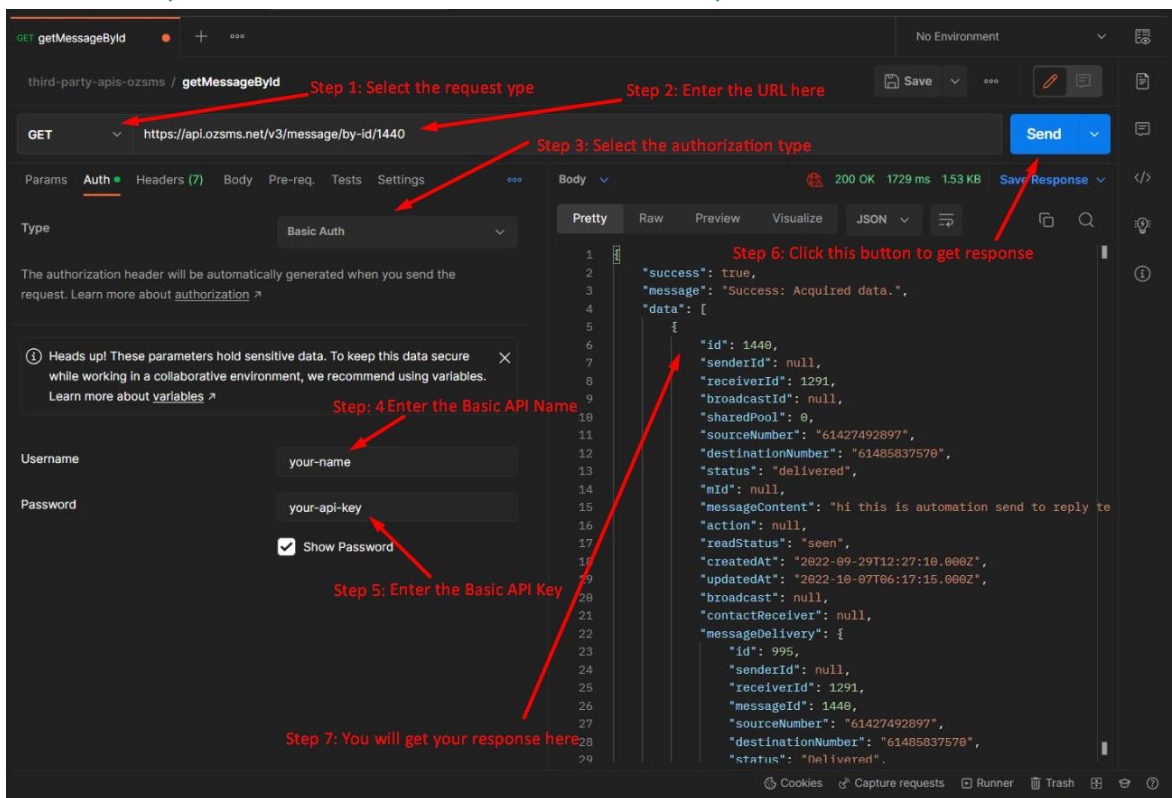


The screenshot shows the Postman interface for a GET request to `https://api.ozsms.net/v3/message/by-id/1440`. The 'Headers' tab is active, showing an 'x-access-hmac' header with the value `your-name:your-api-key:your-api-secret`. The 'Send' button is highlighted, and the response is displayed in the 'Body' tab.

**Steps:**

- Step 1: Select your Request Type (GET)
- Step 2: Enter URL Here (`https://api.ozsms.net/v3/message/by-id/1440`)
- Step 3: Enter `x-access-hmac` here
- Step 4: Enable checkbox
- Step 5: Enter your name, api key and api secret separated with colon ; respectively
- Step 6: Click this button to get response
- Step 7: You will get your response here

## How to Implement Basic Authorization on postman



The screenshot shows the Postman interface for a GET request to `https://api.ozsms.net/v3/message/by-id/1440`. The 'Auth' tab is active, showing 'Basic Auth' selected. The 'Username' field contains `your-name` and the 'Password' field contains `your-api-key`. The 'Send' button is highlighted, and the response is displayed in the 'Body' tab.

**Steps:**

- Step 1: Select the request type (GET)
- Step 2: Enter the URL here (`https://api.ozsms.net/v3/message/by-id/1440`)
- Step 3: Select the authorization type (Basic Auth)
- Step 4: Enter the Basic API Name (your-name)
- Step 5: Enter the Basic API Key (your-api-key)
- Step 6: Click this button to get response
- Step 7: You will get your response here

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