

# Working With Zipwhip's API

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*Zipwhip's exposed API is the same API that we use to build all of our products*

## Basics

Zipwhip's API relies on a sessionKey to perform all actions. This is a GUID representation of an authenticated user.

*Tip: SessionKeys do not expire, they can be obtained once and then used for all future actions.*

A sessionKey is obtained from performing a user/login webcall for the account.

## It all begins with user/login

```
➤ $ curl -i https://api.zipwhip.com/user/login \
    -d username=[phone number] \
    -d password=[account password]

➤ {
  "success":true,
  "response":"3d0f1dde-aaff-4ce8-b61a-af212a860abc:123456789"
}
```

*In this case the response is the sessionKey for the account.*

Next you'll want to send a message. To do so, we will use the sessionKey retrieved from user/login.

```
➤ $ curl -i https://api.zipwhip.com/message/send \
    -d session=3d0f1dde-aaff-4ce8-b61a-af212a860abc:123456789
    -d --data-rulencode contacts='+18559479447'
    -d --data-urlencode body='Hello World, from Zipwhip!'

➤ {
  "response": {
    "fingerprint": "4236521183",
    "root": "327559093363723008",
    "tokens": [
      {
        "contact": 1989548603,
        "device": 309626613,
        "fingerprint": "42336654183",
        "message": "327545678963723008"
      }
    ]
  }
}
```

```

    }
  ]
},
"success": true
}

```

*message is the ID of the unique this can be used in message/get, message/read, message/delete*

## General Application Flow

Here is an example of Zipwhip's implementation for our devices.

1. conversation/list (<http://zipwhip.com/api/#/curl/conversation/list>)
2. conversation/get (<http://zipwhip.com/api/#/curl/conversation/get>)
3. contact/list (<http://zipwhip.com/api/#/curl/contact/list>)

*This will pull down all of the relevant data to build a GUI with Contacts, Conversations, and Messages.*

## Conversation/List

Conversations are broken up by the unique combination of recipients. It is the most logical way to display messages in a format that mirrors the mobile devices that we all use today.

When performing a conversation/list you can page through the available conversations.

*Tip: On mobile devices or areas of less-than-ideal connectivity chose a page size that will at least fill the initial conversation list view on your applications. Then lazy load in the background.*

```

$ curl https://api.zipwhip.com/conversation/list \
-d session=3d0f1dde-aaff-4ce8-b61a-af212a860abc:123456789 \
-d limit=10 \
-d start=0

```

*This tells Zipwhip that you want the 10 most recent conversations.*

```

{
  "total": 2,
  "response": [
    {
      "address": "ptn:/2068308909",
      "bcc": null,
      "cc": null,
      "dateCreated": "2013-04-18T11:44:57-07:00",
      "deleted": false,
      "deviceAddress": null,
      "deviceId": 309626613,
    }
  ]
}

```

```

    "fingerprint": "1181232551",
    "id": 161304119203,
    "lastContactDeviceId": 309626613,
    "lastContactFirstName": "Scarlett",
    "lastContactId": 2127241703,
    "lastContactLastName": "",
    "lastContactMobileNumber": "2068308909",
    "lastMessageBody": "Fbhv",
    "lastMessageDate": "2013-04-18T11:45:06-07:00",
    "lastNonDeletedMessageDate": "2013-04-18T11:45:06-07:00",
    "lastUpdated": "2013-04-19T12:42:23-07:00",
    "unreadCount": 0,
    "version": 1
  },
  {
    "address": "ptn:/3604321502",
    "bcc": null,
    "cc": null,
    "dateCreated": "2013-02-21T16:49:51-08:00",
    "deleted": false,
    "deviceAddress": null,
    "deviceId": 309626613,
    "fingerprint": "11893565339",
    "id": 142834903003,
    "lastContactDeviceId": 309626613,
    "lastContactFirstName": "John",
    "lastContactId": 1989536703,
    "lastContactLastName": "Fan",
    "lastContactMobileNumber": "3604321502",
    "lastMessageBody": "hi",
    "lastMessageDate": "2013-04-24T12:58:39-07:00",
    "lastNonDeletedMessageDate": "2013-04-24T12:58:39-07:00",
    "lastUpdated": "2013-04-24T12:59:10-07:00",
    "new": false,
    "unreadCount": 0,
    "version": 1
  }
],
"success": true,
"size": 2
}

```

*In this example we just show the most recent 2 conversations.*

## Conversation/Get

Using the conversation/get will retrieve messages specific to the conversation. This will help to group relevant messages to the most recent conversations.

When performing a conversation/get you can page through the available messages.

*Tip: Again, we'll grab a handful of messages for the most recent conversations. This will*

populate the most relevant messages onto the client.

```
$ curl https://api.zipwhip.com/conversation/get \
-d fingerprint=1181232551 \
-d session=3d0f1dde-aaff-4ce8-b61a-af212a860abc:123456789 \
-d limit=10 \
-d start=0
```

In this example we use the fingerprint from the first conversation

*Tip: Similar to the `conversation/list` call you can limit the number of messages returned. This gives you as the implementor the chance to limit the number of messages return.*

```
{
  "response": {
    "conversation": {
      "address": "ptn:/3608964896",
      "bcc": null,
      "cc": null,
      "dateCreated": "2013-02-21T16:54:39-08:00",
      "deleted": false,
      "deviceAddress": null,
      "deviceId": 309626613,
      "fingerprint": "4233621183",
      "id": 142836952103,
      "lastContactDeviceId": 309626613,
      "lastContactFirstName": "Tim",
      "lastContactId": 1989548603,
      "lastContactLastName": "Jones",
      "lastContactMobileNumber": "3608964896",
      "lastMessageBody": "Nada much.",
      "lastMessageDate": "2013-04-24T17:47:12-07:00",
      "lastNonDeletedMessageDate": "2013-04-24T17:47:12-07:00",
      "lastUpdated": "2013-04-24T17:51:45-07:00",
      "unreadCount": 0,
      "version": 1
    },
    "messages": [
      {
        "address": "ptn:/3608964896",
        "advertisement": null,
        "bcc": null,
        "body": "Nada much.",
        "carrier": "ATT",
        "cc": null,
        "contactDeviceId": 309626613,
        "contactId": 1989548603,
        "dateCreated": "2013-04-24T17:47:12-07:00",
        "destAddress": "8559479447",
        "deviceId": 309626613,
```

```

    "errorState": false,
    "fingerprint": "4233621183",
    "firstName": "Tim",
    "fromName": null,
    "fwd": "",
    "hasAttachment": false,
    "id": "32722223187526144",
    "isInFinalState": false,
    "isParent": false,
    "isRead": true,
    "isSelf": false,
    "lastName": "Jones",
    "lastUpdated": null,
    "messageTransport": 8,
    "mobileNumber": "3608964896",
    "parentId": 0,
    "sourceAddress": "3608964896",
    "thread": "",
    "transmissionState": {
      "name": "DELIVERED"
    },
    "type": "MO",
    "version": 0,
    "visible": true
  },
  {
    "address": "ptn:/3608964896",
    "advertisement": "\n\nSent via Zipwhip",
    "bcc": null,
    "body": " yo wassup?",
    "carrier": "ATT",
    "cc": null,
    "contactDeviceId": 309626613,
    "contactId": 1989548603,
    "dateCreated": "2013-04-24T17:46:48-07:00",
    "destAddress": "3608964896",
    "deviceId": 309626613,
    "errorState": false,
    "fingerprint": "4233621183",
    "firstName": "Tim",
    "from": 1989548603,
    "fromName": "Zipwhip,",
    "fwd": "",
    "hasAttachment": false,
    "id": "327222123279641664",
    "isInFinalState": false,
    "isParent": false,
    "isRead": true,
    "isSelf": false,
    "lastName": "Jones",
    "lastUpdated": null,
    "latlong": "",

```

```

        "loc": "",
        "mobileNumber": "3608964896",
        "parentId": 0,
        "sourceAddress": "8559479447",
        "thread": "",
        "transmissionState": {
            "name": "DELIVERED"
        },
        "type": "ZO",
        "version": 0,
        "visible": true
    }
]
},
"success": true
}

```

## Contact/List

Zipwhip uses the `contact/list` primarily for when the user is composing a new message. We will then populate the To box based on the contacts retrieved from `contact/list`.

```

$ curl https://api.zipwhip.com/contact/list \
  -d session=3d0f1dde-aaff-4ce8-b61a-af212a860abc:123456789 \
  -d pageSize=10 \
  -d page=0

```

*Tip: Zipwhip typically lazy loads contacts, as they are only necessary during the compose action.*

```

{
  "total": 2,
  "response": [
    {
      "address": "ptn:/2062164915",
      "birthday": null,
      "business": null,
      "carrier": "Zipwhip",
      "channel": "",
      "city": "",
      "dateCreated": "2013-04-10T21:38:55-07:00",
      "deleted": false,
      "deviceId": 309626613,
      "email": "",
      "firstName": "Charlie The Dog",
      "fwd": "",
      "id": 2109659003,
      "lastName": "",
      "lastUpdated": "2013-04-10T21:42:48-07:00",
      "latlong": "",
      "loc": "",

```

```

    "mobileNumber": "2062164915",
    "notes": "",
    "phoneId": 0,
    "phoneKey": "",
    "state": "",
    "targetGroupDevice": -1,
    "thread": "",
    "version": 6,
    "zipcode": ""
  },
  {
    "address": "ptn:/2064551715",
    "birthday": null,
    "business": null,
    "carrier": "Vzw",
    "channel": "",
    "city": "",
    "dateCreated": "2013-02-22T10:34:06-08:00",
    "deleted": false,
    "deviceId": 309626613,
    "email": "",
    "firstName": "Veronica",
    "fwd": "",
    "id": 1991164703,
    "lastName": "",
    "lastUpdated": "2013-04-10T21:17:11-07:00",
    "latlong": "",
    "loc": "",
    "mobileNumber": "2064551715",
    "notes": "",
    "phoneId": 0,
    "phoneKey": "2064551715",
    "state": "",
    "targetGroupDevice": -1,
    "thread": "",
    "version": 6,
    "zipcode": ""
  }
],
"page": 1,
"pages": 1,
"success": true
}

```