

## Introduction

This API will be responsible for creating, reading, updating and deleting voip subscribers across exotel. This API will internally do CRUD ops on the SIP subscriber table in the kamailio database. This API will be currently internal to exotel and will be used by Obelix(later refresh)

These API uses Basic Authentication

Link to API reference: [Subscribers API Spec](#)

## REST API reference

### Create a Subscriber(POST)

**POST** <https://api.internal.exotel.com/v2/accounts/:accountSid/subscribers>

- Mandatory fields:
  - `user_name`
- Optional fields:
  - `password`
  - `email`
- API is bulk capable

### Sample Request

```
{
  "subscribers" : [
    {
      "user_name" : "alice",
      "password" : "924b2b7f48f38dc87e4714bc7e7c8491"
      "email" : "nikhil.k@exotel.in"
    },
    {
      "user_name" : "nikhil",
      "password" : "aada1857243c966fbc8640fb78d82c44"
      "email" : "nikhil.k+123@exotel.in"
    }
  ]
}
```

## Sample Response

```
{
  "http_code": "<HTTP Code>",
  "metadata": {
    "failed": 0,
    "success": 2,
    "total": 2
  },
  "method": "POST",
  "request_id": "xxxx",
  "response": [
    {
      "code": 200,
      "error_data": null,
      "data": {
        "user_name": "abcd1234",
        "date_created": "2020-01-01T00:00:00Z",
        "date_updated": "2020-01-01T00:00:00Z",
        "status": "inactive",
        "email": "nikhil.k@exotel.in",
        "domain": "<accountSid>.voip.exotel.com"
      }
    },
    {
      "code": 200,
      "error_data": null,
      "data": {
        "user_name": "efgh5678",
        "date_created": "2020-01-01T00:00:00Z",
        "date_updated": "2020-01-01T00:00:00Z",
        "status": "inactive",
        "email": "nikhil.k+123@exotel.in",
        "domain": "<accountSid>.voip.exotel.com"
      }
    }
  ]
}
```

## Retrieve a Subscriber(GET)

|     |   |
|-----|---|
| GET | <a href="https://api.internal.exotel.com/v2/accounts/:accountSid/subscribers?name=abcd1234,efgh5678">https://api.internal.exotel.com/v2/accounts/:accountSid/subscribers?name=abcd1234,efgh5678</a> |
|-----|---|

## Sample Response

```
{
```

```

    "http_code": "<HTTP Code>",
    "metadata": {
      "first_page_uri": "/v2/accounts/:accountSid/subscribers?page_size=50",
      "prev_page_uri": null,
      "next_page_uri": "/v2/accounts/:accountSid/subscribers?offset=2&page_size=50"
    }
    "method": "GET",
    "request_id": "xxxx",
    "response": [
      {
        "code": 200,
        "error_data": null,
        "data": {
          "user_name": "abcd1234",
          "date_created": "2020-01-01T00:00:00Z",
          "date_updated": "2020-01-01T00:00:00Z",
          "status": "active",
          "email": "nikhil.k@exotel.in",
          "domain": "<accountSid>.voip.exotel.com"
        }
      },
      {
        "code": 200,
        "error_data": null,
        "data": {
          "user_name": "efgh5678",
          "date_created": "2020-01-01T00:00:00Z",
          "date_updated": "2020-01-01T00:00:00Z",
          "status": "inactive",
          "email": "nikhil.k+123@exotel.in",
          "domain": "<accountSid>.voip.exotel.com"
        }
      }
    ]
  }
}

```

- id query parameter is mandatory
- Bulk capable API
  - Offset based pagination

## Update a Subscriber(PUT)

PUT

<https://api.internal.exotel.com/v2/accounts/:accountSid/subscribers/:name>

### Sample Request

```
{
  "password" : "924b2b7f48f38dc87e4714bc7e7c8491",
}
```

### Sample Response

```
{
  "http_code": "<HTTP Code>",
  "metadata": {
    "failed": 0,
    "success": 2,
    "total": 2
  },
  "method": "PUT",
  "request_id": "xxxx",
  "response": {
    "code": 200,
    "error_data": null,
    "data": {
      "user_name" : "abcd1234",
      "date_created" : "2020-01-01T00:00:00Z",
      "date_updated" : "2020-01-01T00:00:00Z",
      "domain" : "<accountSid>.voip.exotel.com",
      "status" : "active"
    }
  }
}
```

### Notes

- Single capable API
- **name** in path is mandatory

### Delete a Subscriber(DELETE)

|        |   |
|--------|---|
| DELETE | <a href="https://api.internal.exotel.com/v2/accounts/:accountSid/subscribers/:name">https://api.internal.exotel.com/v2/accounts/:accountSid/subscribers/:name</a> |
|--------|---|

### Sample Response

```
{
  "http_code": "<HTTP Code>",
  "Metadata": null,
}
```

```

    "method": "DELETE",
    "request_id": "xxxx",
    "response": {
        "code": 200,
        "error_data": null,
        "data": {
            "user_name" : "abcd1234",
            "date_created": "2020-01-01T00:00:00Z",
            "date_updated": "2020-01-01T00:00:00Z",
            "domain" : "<accountSid>.voip.exotel.com",
        }
    }
}

```

## Notes

- Single Capable API
- **name** in path is mandatory

## API data source

- **Mysql DB:** kamailio
- **Tables:**
  - subscriber
    - Subscriber information is fetched from *subscriber* table of kamailio database
  - location
    - Registration status of subscriber is fetched from *location* table

## DB Schema

### subscriber table

| Field        | Type        | Null | Key | Default           | Extra                      |
|--------------|-------------|------|-----|-------------------|----------------------------|
| id           | varchar(64) | NO   | PRI | NULL              |                            |
| date_created | datetime    | NO   |     | CURRENT_TIMESTAMP |                            |
| date_updated | datetime    | NO   |     | CURRENT_TIMESTAMP | Onupdate CURRENT_TIMESTAMP |
| account_sid  | varchar(64) | NO   | MUL | NULL              |                            |

|               |              |     |     |      |  |
|---------------|--------------|-----|-----|------|--|
| user_name     | varchar(64)  | NO  | MUL |      |  |
| domain        | varchar(128) | NO  |     |      |  |
| email_address | varchar(200) | NO  |     |      |  |
| password      | varchar(64)  | NO  |     |      |  |
| ha1           | varchar(64)  | NO  |     |      |  |
| ha1b          | varchar(64)  | NO  |     |      |  |
| rpId          | varchar(64)  | YES |     | NULL |  |

**location table** schema isn't changed and is the same as kamailio default table schema, with these are field.

| Field         | Type            | Null | Key | Default             |
|---------------|-----------------|------|-----|---------------------|
| id            | int(10)unsigned | NO   | PRI | NULL                |
| ruid          | varchar(64)     | NO   | UNI |                     |
| username      | varchar(64)     | NO   | MUL |                     |
| domain        | varchar(64)     | YES  |     | NULL                |
| contact       | varchar(255)    | NO   |     |                     |
| received      | varchar(128)    | YES  |     | NULL                |
| path          | varchar(512)    | YES  |     | NULL                |
| expires       | datetime        | NO   | MUL | 2030-05-28 21:32:15 |
| q             | float(10        | 2)   | NO  |                     |
| callid        | varchar(255)    | NO   |     | Default-Call-ID     |
| cseq          | int(11)         | NO   |     | 1                   |
| last_modified | datetime        | NO   |     | 1900-01-01 00:00:01 |
| flags         | int(11)         | NO   |     | 0                   |
| cflags        | int(11)         | NO   |     | 0                   |
| user_agent    | varchar(255)    | NO   |     |                     |
| socket        | varchar(64)     | YES  |     | NULL                |
| methods       | int(11)         | YES  |     | NULL                |
| instance      | varchar(255)    | YES  |     | NULL                |
| reg_id        | int(11)         | NO   |     | 0                   |
| server_id     | int(11)         | NO   |     | 0                   |
| connection_id | int(11)         | NO   |     | 0                   |
| keepalive     | int(11)         | NO   |     | 0                   |
| partition     | int(11)         | NO   |     | 0                   |

