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# The City Admin API v1

## Introduction

This would be a place to write an introduction. Stuff to mention: Types of apps you could potentially build using this API, that it basically wraps anything you could do as an admin in The City, but does not allow front-end functionality like creating content.

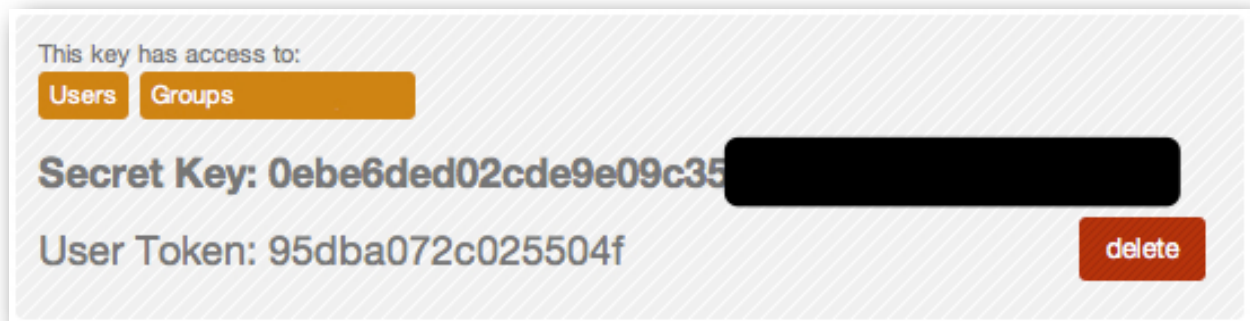
## Security & Authentication

The City Admin API utilizes a **HMAC** signature scheme for authentication. The client must send the HMAC signature together with a set of special HTTP headers when making a request. This ensures that the request is being made from an approved, known client, and that the request has not been tampered with. All requests must also be made over an SSL connection, which provides extra security during request transmission.

## Keys & Tokens

To obtain the API key necessary to start using The City Admin API, you must first grant someone API Admin privileges. Go to **Admin > Privileges > API Admin** and grant an active City user API Admin privileges. This user is now able to create and assign new access keys to other users (or themselves).

To obtain a new key, as an API Admin, go to **Admin > API > Keys**. Click “**+ Add New API Key**”, and associate a key with a user in your City. When you sign a request with this key, the request will carry with it any privileges that the user has (Group Admin, User Admin, Reporting Admin, etc.) so make sure you associate the key to a user with the appropriate level of access that your app will require.



**Secret Key** - This is the key that you will use to sign your requests so that we know they came from you, and were not tampered with. Keep this **safe** (and **secret**)!

**User Token** - This is the key you will send along with your signed requests so that we know which secret key to use on our end to decode your signature.

A key will also change statuses based on certain actions:

**Banned** - If your key or account has been temporarily blocked because you exceeded an API rate limit, .

**Disabled** - When you delete a key, it gets disabled and is no longer available for signing requests.

## Signing Requests

The HMAC signature will consist of the following data:

The current Unix **time in seconds**

The HTTP **verb** of your request, e.g. "GET", "PUT", or "POST"

The **host** and **path** of your request, e.g "https://api.onthecity.org/groups/1234"

Any **query parameters**, sorted alphabetically and canonicalized, e.g.  
"bar=foo&some\_param=some\_value&user\_id=12345"

On a POST or PUT request with body data, the **post body data**

In pseudocode, your request data string to sign will be: time + verb + host + path + query\_params + body. Once you have your request data ready to sign, there is a 3-step process:

First, concatenate a string of the data above, and then construct an HMAC signature using **SHA-256** as the HMAC message digest algorithm.

Next, **Base64** encode the HMAC output.

Lastly, **URL-encode** the Base64-encoded HMAC code

Here is an example using the OpenSSL HMAC implementation in Ruby:

```
require 'openssl'
require 'CGI'

string_to_sign = "1320995815GEThttps://api.onthecity.org/groups/1234?param1=some_value&param2=12345"

secret_key = '1234567890...' #get this from The City API admin panel

unencoded_hmac = OpenSSL::HMAC.digest('sha256', secret_key, string_to_sign)

unescaped_hmac = Base64.encode64(hmac).chomp #chomp removes any new line or carriage return characters from the string end

hmac_signature = CGI.escape(unescaped_hmac)
```

## Required Headers

There are four required HTTP headers (six on a POST request) that must be present on every request to The City Admin API. A request that is missing *any* of these headers will be rejected and will receive a 4xx HTTP Status Code (400 Bad Request or 406 Not Acceptable).

The following headers are required, or else you will receive a 400 Bad Request:

**X-City-Sig:** *The HMAC signature, Base64 and URL encoded.*

**X-City-User-Token:** *The User Token, a 16-digit hexadecimal key that is paired with your secret key used to craft your HMAC signature.*

**X-City-Time:** *The same Unix time in seconds you used in your signature.*

You must also specify which version of the API/resource you are requesting by setting the **accept** header like this (or else you will receive a 406 Not Acceptable):

**Accept:** application/vnd.thecity.v1+json

If you are sending a body, you must also set:

**Content-Type:** application/json

**Content-Length:** *the length in bytes of your request body*

## Rate Limiting

The City Admin API is throttled and rate limited for all accounts. While the request limits are generous, you may receive a **403 Forbidden -- Rate Limit Exceeded** HTTP Status Code if your client exceeds one of the limits.

In the response headers for any request to the API, you will receive four headers that will inform you of your current rate limit remaining.

**X-City-RateLimit-Limit-By-Account**

**X-City-RateLimit-Remaining-By-Account**

**X-City-RateLimit-Limit-By-Ip**

**X-City-RateLimit-Remaining-By-Ip**

It is the responsibility of the client to maintain a back-off strategy in order to avoid being temporarily or permanently “blacklisted”. Too many 403 responses will get your IP Address, or your access keys, disabled and/or your account’s access to the API turned off.

# API Endpoints

The City API tries to adhere to RESTful conventions, and so the documentation is organized by resource and action.

The endpoints are:

GROUPS | INDEX  
GROUPS | SHOW  
*GROUPS | UPDATE (coming soon)*  
*GROUPS | CREATE (coming soon)*  
GROUPS | COUNT  
GROUPS | ROLES | INDEX  
*GROUPS | ROLES | CREATE (coming soon)*  
*GROUPS | ROLES | UPDATE (coming soon)*  
GROUPS | INVITATIONS | INDEX  
GROUPS | INVITATIONS | CREATE  
GROUPS | EXPORTS | INDEX  
GROUPS | EXPORTS | CREATE  
GROUPS | EXPORTS | SHOW

USERS | INDEX  
USERS | SHOW  
USERS | UPDATE  
*USERS | CREATE (coming soon)*  
USERS | COUNT  
USERS | ROLES | INDEX  
*USERS | ROLES | CREATE (coming soon)*  
*USERS | ROLES | UPDATE (coming soon)*  
USERS | INVITATIONS | INDEX  
USERS | INVITATIONS | CREATE

The remainder of the documentation explains how to request the resources listed above, using the following pattern:

## ► RESOURCE ACTION

**VERB** /path/:some\_id/more\_path/:id

## QUERY PARAMETERS

**bold\_required**

**another\_required**

optional\_parameter

#### EXAMPLE URL

```
https://api.onthecity.org/users/452617?title=Deacon&staff=true
```

#### SAMPLE JSON RETURNED DATA

```
{
  "id":946060874,
  "last":"Shepherd",
  "email":"sam@thechurch.org",
  "primary_phone":null,
  ...
}
```



# User Endpoints

## ► USERS SHOW

**GET** /users/:id

### PARAMETERS

N/A

### EXAMPLE

<https://api.onthecity.org/users/452617>

### RETURN DATA

```
{
  "last_checkin_date": "2011-09-09",
  "admin_url": "http://church.onthecity.org/admin/users/452617",
  "last_donation_date": "2012-02-02",
  "family_id": 87,
  "created_at": "01/15/2009 07:54 AM (CST)",
  "secondary_phone": "0987654321",
  "middle": "",
  "addresses": [
    {
      "city": "Seattle",
      "latitude": 47.682503,
      "zipcode": "98117",
      "id": 352666,
      "street": "54367 23rd Ave NW",
      "type": "Home",
      "longitude": -122.38291,
      "state": "WA"
    }
  ],
  "title": "",
  "birthdate": "1975-03-16",
  "secondary_phone_type": "home",
  "contact_updated_at": "02/03/2012 05:09 AM (CST)",
  "Custom Field Something": "",
  "in_office": true,
  "last_logged_in": "02/03/2012 11:54 AM (CST)",
  "nickname": "",
  "primary_phone_type": "home",
  "head_of_household": true,
  "last": "Blair",
  "staff": true,
  "id": 452617,
  "Custom Field Another": "",
  "External ID": "",
  "in_campus": true,
  "spouse_id": null,
}
```

```

"gender": "Male",
"last_engaged": "02/03/2012 11:54 AM (CST)",
"type": "User",
"Custom Date Field": "1908-02-03",
"first": "Mark",
"in_community": true,
"in_neighborhood": true,
"in_welcome": true,
"Custom Field 2": "",
"marital_status": "Married",
"children": [
{
  "name": "Samantha Blair",
  "admin_url": "http://church.onthecity.org/admin/users/844826",
  "birthdate": "2003-05-12",
  "External ID": "",
  "user_id": 85826,
  "api_url": "https://api.onthecity.org/users/844826",
  "email": null,
  "family_role": "Child"
},{
  "name": "Drew Blair",
  "admin_url": "http://church.onthecity.org/admin/users/85827",
  "birthdate": "2008-02-28",
  "External ID": null,
  "user_id": 85827,
  "api_url": "https://api.onthecity.org/users/85827",
  "email": null,
  "family_role": "Child"
}],
"is_an_organization": false,
"primary_campus_name": "The Campus",
"last_attendance_date": "2011-09-11",
"Custom Field 3": "",
"primary_campus_id": 1245,
"api_url": "https://api.onthecity.org/users/452617",
"email_bouncing": false,
"active": true,
"spouse_name": "",
"email": "mark@email.net",
"member_since": "10/14/2011",
"primary_phone": "1234567890",
"family_role": "Spouse"
}

```

## ► USERS INDEX

### GET /users

#### PARAMETERS

```
page = [1, 2, ...]
filter = ["created_in_the_last_7_Days" |
"created_in_the_last_N_PERIOD"]
filter = ["contact_updated_in_the_last_3_weeks" |
"contact_updated_in_the_last_N_PERIOD"]
filter = ["with_external_id_1" | "with_external_id_2" |
"with_external_id_3"]
filter = ["without_external_id_1" | "without_external_id_2" |
"without_external_id_3"]
```

#### EXAMPLE

```
https://api.onthecity.org/users?filter=created_in_the_last_10_days
```

#### RETURN DATA

```
{
  "total_entries": 703,
  "total_pages": 36,
  "per_page": 20,
  "current_page": 1,
  "users": [
    {
      "admin_url": "http://church.onthecity.org/admin/users/8121",
      "created_at": "01/15/2009 07:42 AM (CST)",
      "secondary_phone": "123456789",
      "middle": "Lucas",
      "title": null,
      "birthdate": "1980-10-30",
      "secondary_phone_type": "Home",
      "contact_updated_at": "09/23/2011 12:16 AM (CDT)",
      "Custom Field One": null,
      "last_logged_in": "01/19/2011 10:14 AM (CST)",
      "nickname": "",
      "primary_phone_type": "Home",
      "head_of_household": true,
      "last": "Wiggle",
      "staff": null,
      "id": 8121,
      "Custom Field Five": null,
      "External ID": null,
      "gender": "Male",
      "last_engaged": "12/18/2011 04:03 PM (CST)",
      "type": "User",
      "Custom Field Four": null,
    }
  ]
}
```

```
        "first": "Adam",
        "Custom Field 2": null,
        "marital_status": "Married",
        "primary_campus_name": "Campus",
        "is_an_organization": false,
        "Custom Field 3": null,
        "api_url": "https://api.onthecity.org/users/8121",
        "active": false,
        "primary_campus_id": 1244,
        "email": "a@fake.biz",
        "member_since": "07/08/2010",
        "email_bouncing": false,
        "primary_phone": "123456789"
    },
    { ... }
]
```

## ► USERS COUNT

**GET** /users/count

### PARAMETERS

```
filter = ["created_in_the_last_7_Days" |  
"created_in_the_last_N_PERIOD"]  
filter = ["contact_updated_in_the_last_3_weeks" |  
"contact_updated_in_the_last_N_PERIOD"]  
filter = ["with_external_id_1" | "with_external_id_2" |  
"with_external_id_3"]  
filter = ["without_external_id_1" | "without_external_id_2" |  
"without_external_id_3"]
```

### EXAMPLE

```
https://api.onthecity.org/users/count?created_in_the_last_78_days
```

### RETURN DATA

```
{  
  "count": 82,  
  "filter": "created_in_the_last_78_days"  
}
```

## ► USERS UPDATE

**PUT** /users/:id

### PARAMETERS

```
title = ["Pastor" | "Deacon" | "..."]
first = ["FirstName"]
middle = ["MiddleName"]
last = ["LastName"]
nickname = ["PreferredName"]
staff = [ true | false ]
member_since = [ "DD/MM/YYYY" | "YYYY-MM-DD" ]
primary_phone = ["123-456-7890"]
primary_phone_type = ["Home" | "Work" | "Mobile" ]
secondary_phone = ["123-456-7890"]
secondary_phone_type = ["Home" | "Work" | "Mobile" ]
external_id_1 = ["UniqueString"]
external_id_2 = ["String"]
external_id_3 = ["String"]
```

### EXAMPLE

```
https://api.onthecity.org/users/452617?title=Deacon&staff=true
```

### RETURN DATA

```
{
  "last_checkin_date": "2011-09-09",
  "admin_url": "http://church.onthecity.org/admin/users/452617",
  "last_donation_date": "2012-02-02",
  "family_id": 87,
  "created_at": "01/15/2009 07:54 AM (CST)",
  "secondary_phone": "0987654321",
  "middle": "",
  ... (Same as User#Show) ...
}
```

## ► USERS ROLES INDEX

**GET** /users/:user\_id/roles

### PARAMETERS

*page* = [1, 2, ...]

### EXAMPLE

<https://api.onthecity.org/users/452617/roles>

### RETURN DATA

```
{
  "total_entries": 22,
  "total_pages": 2,
  "per_page": 20,
  "current_page": 1
  "roles": [
    {
      "group_name": "The Group",
      "created_at": "05/11/2009",
      "group_api_url": "https://api.onthecity.org/groups/1245",
      "title": "Participant",
      "group_type": "Campus",
      "group_id": 1245,
      "id": 75530,
      "last_engaged": "01/24/2012",
      "active": true
    },
    { ... }
  ]
}
```

## ► USERS INVITATIONS INDEX

**GET** /users/:user\_id/invitations

### PARAMETERS

*page* = [1, 2, ...]

### EXAMPLE

<https://api.onthecity.org/users/452617/invitations>

### RETURN DATA

```
{
  "total_entries": 1,
  "total_pages": 1,
  "per_page": 20,
  "current_page": 1,
  "invitations": [
    {
      "created_at": "02/06/2012",
      "pending_approval": false,
      "group_id": 17543,
      "id": 1696876,
      "user_id": 14347,
      "custom_message": null,
      "source": "API Invite | Group A (17543) on 2012-02-06 at 16:54",
      "email": "theusers@email.net"
    },
    { ... }
  ]
}
```



## ► USERS INVITATIONS CREATE

**POST** /users/:user\_id/invitations

### PARAMETERS

```
group_id = [12345]  
custom_message = ["Please join the group!"]
```

### EXAMPLE

```
https://api.onthecity.org/users/452617/invitations?  
group_id=5812&custom_message=Join!
```

### RETURN DATA

```
{  
  "created_at": "02/06/2012",  
  "pending_approval": false,  
  "group_id": 5812,  
  "id": 1696907,  
  "user_id": 14347,  
  "custom_message": "Join!",  
  "source": "API Invite | Groupy Group (5812) on 2012-02-06 at 17:01",  
  "email": "theusers@email.com"  
}
```

# Group Endpoints

## ► GROUPS INDEX

**GET** /groups

### PARAMETERS

```
search = ["group_name"]  
page = [1,2,3,4,...]
```

### EXAMPLE

```
https://api.onthecity.org/groups?search=john
```

### RETURN DATA

```
{  
  "total_entries": 72,  
  "total_pages": 4,  
  "per_page": 20,  
  "current_page": 1,  
  "groups": [  
    {  
      "name": "A Group",  
      "admin_url": "http://church.onthecity.org/admin/groups/1445",  
      "created_at": "2009-03-16T06:39:05-04:00",  
      "started_as_seed": false,  
      "nickname": "",  
      "group_type": "Staff",  
      "internal_url": "http://staff.onthecity.org/groups/1445",  
      "id": 1445,  
      "plaza_url": "http://church.onthecity.org/plaza?group_id=1445",  
      "smart_large_profile_pic": "http://church.onthecity.org/image_service/  
10/1445/false/group_large_profile",  
      "parent_id": 1245,  
      "external_description": "",  
      "api_url": "https://api.onthecity.org/groups/1445"  
    }, { ... }  
  ]  
}
```

## ► GROUPS SHOW

**GET** /groups/:id

### PARAMETERS

N/A

### EXAMPLE

<https://api.onthecity.org/groups/1445>

### RETURN DATA

```
{
  "name": "The Group",
  "admin_url": "http://church.onthecity.org/admin/groups/1445",
  "created_at": "2009-03-16T03:39:05-07:00",
  "addresses": [{
    "city": "Seattle",
    "latitude": 47.682503,
    "zipcode": "98117",
    "id": 352666,
    "street": "54367 23rd Ave NW",
    "type": "Host",
    "longitude": -122.38291,
    "state": "WA"
  }],
  "started_as_seed": false,
  "offline_user_ids": [ 94769, ... ],
  "campus_name": "The Campus",
  "nearest_neighborhood_id": null,
  "composition": {
    "volunteers": 0,
    "offline_users": 1,
    "participants": 15,
    "managers": 2,
    "leaders": 3
  },
  "nickname": "",
  "user_ids": [ 8123, 8551, ... ],
  "group_type": "Service",
  "internal_url": "http://church.onthecity.org/groups/1445",
  "id": 1445,
  "nearest_neighborhood_name": null,
  "plaza_url": "http://church.onthecity.org/plaza?group_id=1445",
  "smart_large_profile_pic": "http://church.onthecity.org/image_service/10/1445/false/group_large_profile",
  "campus_id": 1245,
  "parent_id": 1245,
  "external_description": "",
  "api_url": "https://api.onthecity.org/groups/1445"
}
```

## ► GROUPS COUNT

**GET** /groups/count

### PARAMETERS

N/A

### EXAMPLE

<https://api.ontthecity.org/groups/count>

### RETURN DATA

```
{  
  "count": 82  
}
```

## ► GROUPS ROLES INDEX

**GET** /groups/:group\_id/roles

### PARAMETERS

```
page = [1,2,3,...]
title = ["Leaders" | "Managers" | "Volunteers" | "Participants" |
        "Inactive"]
```

### EXAMPLE

```
https://api.onthecity.org/groups/4367/roles
```

### RETURN DATA

```
{
  "total_entries": 53,
  "total_pages": 3,
  "per_page": 20,
  "roles": [
    {
      "created_at": "01/15/2009",
      "title": "Leader",
      "user_api_url": "https://api.onthecity.org/users/8123",
      "id": 50716,
      "user_type": "User",
      "user_id": 8123,
      "last_engaged": "02/02/2012",
      "user_name": "Mark Flair",
      "active": true
    },
    { ... }
  ]
}
```

## ► GROUPS INVITATIONS INDEX

**GET** /groups/:group\_id/invitations

### PARAMETERS

*page* = [1, 2, ...]

### EXAMPLE

<https://api.onthecity.org/groups/1234/invitations>

### RETURN DATA

```
{
  "total_entries": 1,
  "total_pages": 1,
  "per_page": 20,
  "current_page": 1,
  "invitations": [
    {
      "created_at": "02/06/2012",
      "pending_approval": false,
      "group_id": 17543,
      "id": 1696876,
      "user_id": 14347,
      "custom_message": null,
      "source": "API Invite | Group A (17543) on 2012-02-06 at 16:54",
      "email": "theusers@email.net"
    }
  ]
}
```

## ► GROUPS INVITATIONS CREATE

**POST** /groups/:group\_id/invitations

### PARAMETERS

```
† user_id = [12345]
† external_id_1 = ["12345"]
† email = ["user@domain.org"]
custom_message = ["Please join the group!"]
```

*† at least one of these is required*

### EXAMPLE

```
https://api.onthecity.org/groups/4321/invitations?
email=user4@geemail.org&custom_message=Join!
```

### RETURN DATA

```
{
  "created_at": "02/06/2012",
  "pending_approval": false,
  "group_id": 5812,
  "id": 1696907,
  "user_id": 14347,
  "custom_message": "Join!",
  "source": "API Invite | Groupy Group (5812) on 2012-02-06 at 17:01",
  "email": "theusers@email.com"
}
```

## ► GROUPS EXPORTS INDEX

**GET** /groups/:group\_id/exports

### PARAMETERS

page = [1, 2, 3, ...]

### EXAMPLE

<https://api.onthecity.org/groups/4367/exports>

### RETURN DATA

```
{
  "total_entries": 1,
  "total_pages": 1,
  "per_page": 20,
  "current_page": 1,
  "exports": [
    {
      "created_at": "01/13/2012 01:15 AM (EST)",
      "authenticated_s3_url": "http://s3.amazonaws.com:80/thecity/
dms_reports%2F58560%2FGroupExport_01_12_2012__10_15_21PM.csv?
Signature=P6%2FKfwqmD406ovVSgb8pENkPEmc
%3D&Expires=1328582051&AWSAccessKeyId=0APJF43XSHNJKBJZXY82",
      "id": 58560,
      "state": "complete"
    }
  ]
}
```



## ► GROUPS EXPORTS SHOW

**GET** /groups/:group\_id/exports/:id

### EXAMPLE

<https://api.onthecity.org/groups/4367/exports/2>

### RETURN DATA

```
{
  "created_at": "01/12/2012 10:15 PM (PST)",
  "authenticated_s3_url": "http://s3.amazonaws.com:80/thecity/dms_reports%2F58560%2FGroupExport_01_12_2012__10_15_21PM.csv?Signature=CMeuh0gNY%2BLS%2FjGrGIagWDG3JJQ%3D&Expires=1328589584&AWSAccessKeyId=0APJF43XSHNJKBJZXY82",
  "id": 58560,
  "state": "complete"
}
```

## ► GROUPS EXPORTS CREATE

**POST** /groups/:group\_id/exports

### PARAMETERS

user\_type = ["OfflineUsers" | "Users"]

### EXAMPLE

<https://api.onthecity.org/groups/4367/exports>

### RETURN DATA

```
{
  "created_at": "02/06/2012 11:36 PM (EST)",
  "authenticated_s3_url": "",
  "id": 62706,
  "state": "inqueue"
}
```