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| Social Media Suite |
| Implementation and Workflow Document |
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| **7/24/2012** |

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| This document helps the user to understand how to access social media suite service APIs and implement the functionality in the other products using libraries |

Contents

[Implementation 2](#_Toc331176593)

[Social Media Interface 2](#_Toc331176594)

[Structure 2](#_Toc331176595)

[Prerequisite 3](#_Toc331176596)

[Access token Request 5](#_Toc331176597)

[User Profile Request 6](#_Toc331176598)

[Message Request 7](#_Toc331176599)

[Post Message Request 7](#_Toc331176600)

[Social Media Suite APIs 8](#_Toc331176601)

[Get User Profile 8](#_Toc331176602)

[API 8](#_Toc331176603)

[Parameters 8](#_Toc331176604)

[Sample 8](#_Toc331176605)

[Search Messages 10](#_Toc331176606)

[API 10](#_Toc331176607)

[Parameters 10](#_Toc331176608)

[Sample 10](#_Toc331176609)

[Post Messages 12](#_Toc331176610)

[API 12](#_Toc331176611)

[Parameters 12](#_Toc331176612)

[Sample 12](#_Toc331176613)

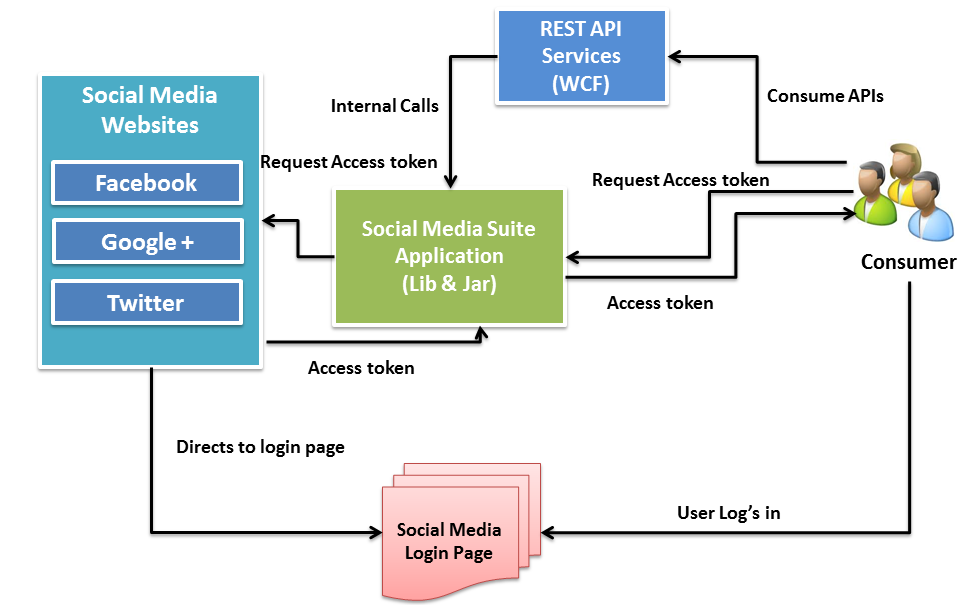
# Implementation

### Social Media Interface

Social media interface is library application developed in c sharp 4.0 and java can be imported as ddl or jar file, Currently it provides support for Facebook, Twitter and Google plus.

### Structure

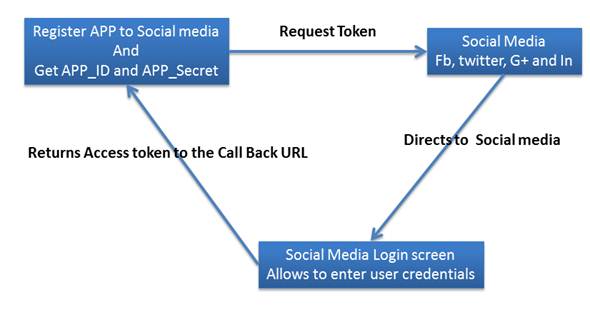
SMI requires integration with Web UI or Web control in case of windows applications which redirects to the social media sites and return back that been configured in the particular social media account as callback url.



**Authorization**

Accessing secure information from social media website or posting a message will require access token which will be passed as input parameter for secure access.

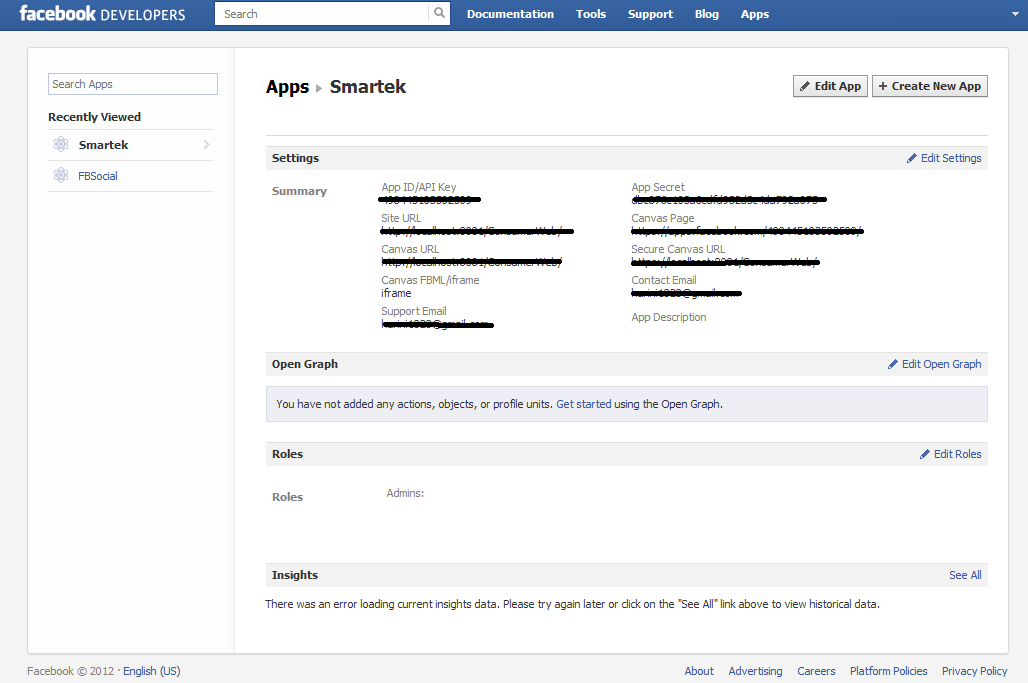
Authorization involves providing the app key and secret to the social media website which takes the user to that particular social media login page for authentication and on successful login the social media site returns back to the application UI which should be listening in the call back url.



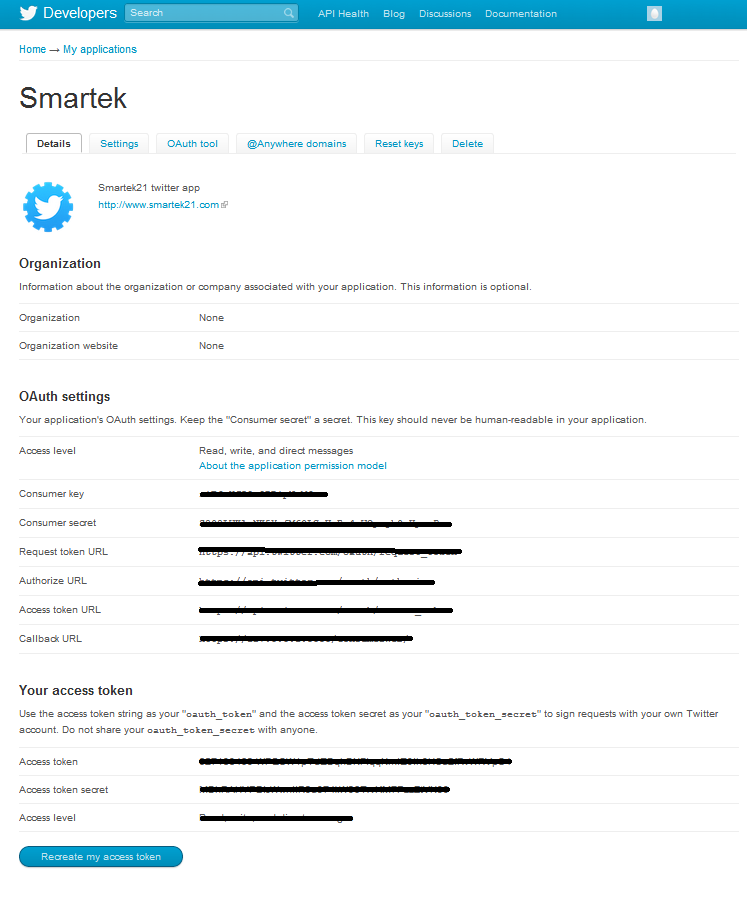
### Prerequisite

It’s required to create an app in each social media which provides us the app secret and key, these inputs are passed as parameters for authentication while requesting for the access token,

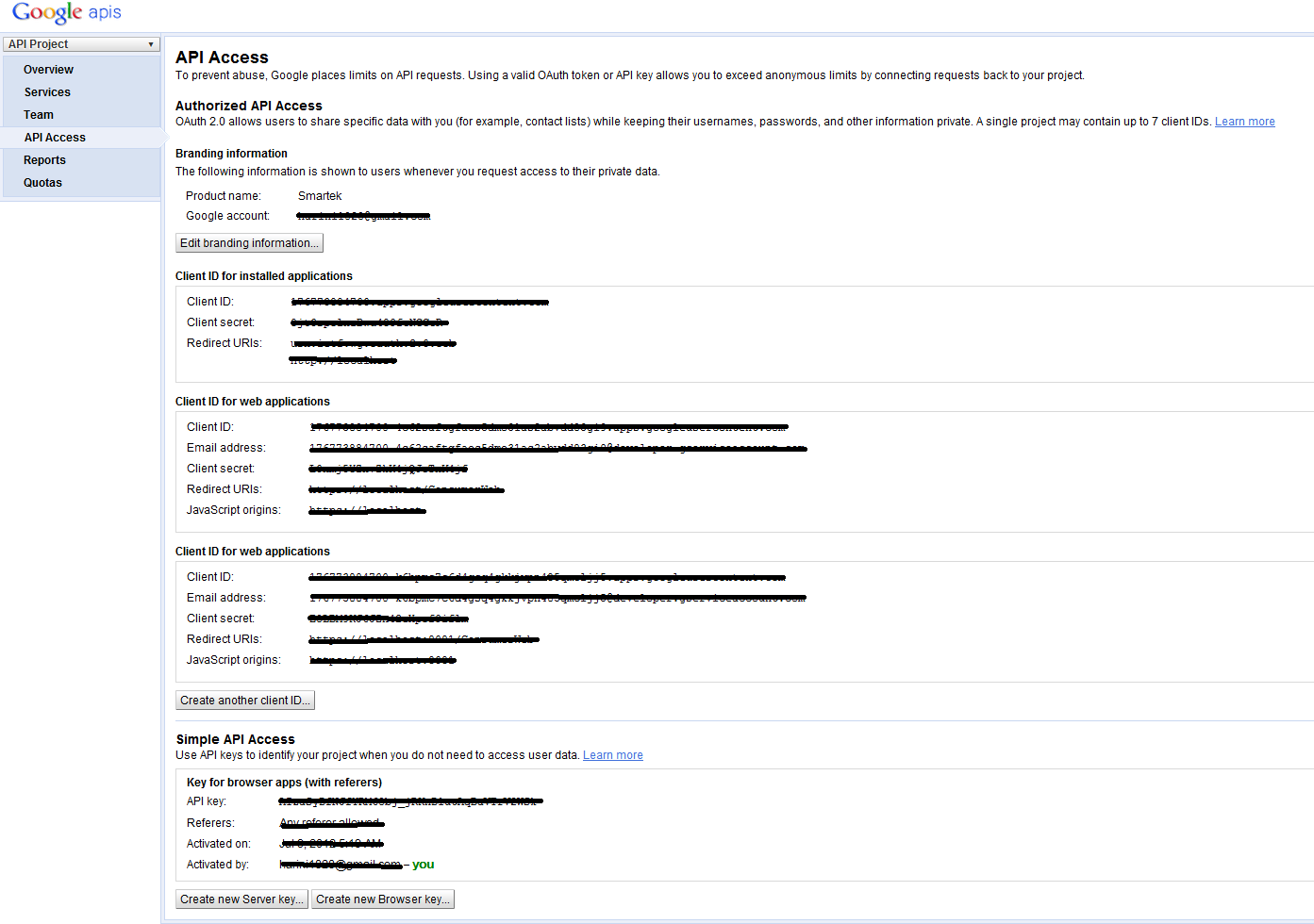
#### Facebook



#### Twitter



#### Google Plus



### Access token Request

The below modules allows the user to request for access token, it redirects to the social media login page. Parameter includes

* Consumer Key
* Consumer Secret
* Verifier Url
* Request Access token Url
* Scope

#### Code

#### .Net

#### Facebook

Credentials credential = new Credentials();

credential.ConsumerKey = "xxxxxxxxxxxx";

credential.ConsumerSecret = "xxxxxxxxxxxxx";

credential.VerifierUrl = "https://graph.facebook.com/oauth/authorize?client\_id={0}&redirect\_uri={1}&scope={2}";

credential.RequestAccessTokenUrl = "https://graph.facebook.com/oauth/access\_token?client\_id={0}&redirect\_uri={1}&client\_secret={2}&code={3}";

credential.RequestProfileUrl = "https://graph.facebook.com/me";

credential.Scope = "publish\_stream,read\_stream,email,offline\_access";

var tClient = new OAuthFacebookClient();

tClient.BeginAuthentication(credential);

#### Twitter

Credentials credential = new Credentials();

credential.ConsumerKey = "xxxxxxxxxx";

credential.ConsumerSecret = "xxxxxxxxxxx";

credential.RequestTokenUrl = "http://twitter.com/oauth/request\_token";

credential.VerifierUrl = "http://api.twitter.com/oauth/authorize";

credential.RequestAccessTokenUrl = "https://api.twitter.com/oauth/access\_token";

credential.RequestProfileUrl = "http://api.twitter.com/1/users/show.json";

credential.Scope = "";

var tClient = new OAuthTwitterClient();

tClient.BeginAuthentication(credential);

#### Google Plus

Credentials credential = new Credentials();

credential.ConsumerKey = "xxxxxxxxx";

credential.ConsumerSecret = "xxxxxxxxx";

credential.RequestTokenUrl = "https://www.google.com/accounts/OAuthGetRequestToken?scope=http://www-opensocial.googleusercontent.com/api/people/";

credential.VerifierUrl = "https://www.google.com/accounts/OAuthAuthorizeToken";

credential.RequestAccessTokenUrl = "https://www.google.com/accounts/OAuthGetAccessToken";

credential.RequestProfileUrl = "http://www-opensocial.googleusercontent.com/api/people/@me/@self";

credential.Scope = "http://www-opensocial.googleusercontent.com/api/people/ https://www.googleapis.com/auth/userinfo#email";

var tClient = new OAuthGoogleClient();

tClient.BeginAuthentication(credential);

#### Java

#### Facebook

String apiKey = "XXXXXXXXXXX";

String apiSecret = "XXXXXXXXXXXXXXXXX";

String scope = "publish\_stream,read\_stream,email,offline\_access";

OAuthService service = **new** ServiceBuilder()

.provider(FacebookApi.**class**).apiKey(apiKey)

.apiSecret(apiSecret).scope(scope) .callback("http://localhost:8081/").build();

#### Twitter

OAuthService service = **new** ServiceBuilder()

.provider(TwitterApi.**class**)

.apiKey("xxxxxxxxxxx")

.apiSecret("xxxxxxxxxxxxx")

.callback("http://localhost:8081/")

.build();

#### Google Plus

OAuthService service = **new** ServiceBuilder()

.provider(GoogleApi.**class**)

.apiKey("xxxxxxxxxxxxxxxx")

.apiSecret("xxxxxxxxxxxxxx")

.callback("http://localhost:8081/")

.scope(SCOPE).build();

### User Profile Request

Code to get user profile information

#### .Net

**Parameters**

userId – username or userId

channels – Facebook,Twitter,GooglePlus

fbAccessToken – Optional parameter facebook access token

Proxy proxy = new Proxy();

proxy.getUserProfile(userId, channels, fbAccessToken);

#### Java

**Parameters**

userId – username or userId

channels – Facebook,Twitter,GooglePlus

access\_token– Optional parameter facebook access token

ProxyImpl proxy = **new** ProxyImpl();

proxy.getUserDetails(userId, channel,access\_token));

### Message Request

Code to get messages from different channels.

#### .Net

**Parameters**

query – Search message

channels – Facebook,Twitter,GooglePlus

Proxy proxy = new Proxy();

proxy.searchMessage(query, channels);

#### Java

**Parameters**

query – Search message

channels – Facebook,Twitter,GooglePlus

ProxyImpl proxy = **new** ProxyImpl();

proxy.getAllMessages(phrase, channel);

### Post Message Request

Code to post messages to different channels.

#### .Net

**Parameters**

message – post message

channels – Facebook,Twitter,GooglePlus

fbToken – Facebook token

twToken – Twitter Token

twTokenSecret – Twitter Token Secret

Proxy proxy = new Proxy();

proxy.postMessage(message, channels, fbToken, twToken, twTokenSecret);

#### Java

**Parameters**

message – post message

channels – Facebook,Twitter,GooglePlus

access\_token – Facebook token

twit\_access – Twitter Token

twit\_secret – Twitter Token Secret

Proxy proxy = new Proxy();

proxy.postMessages(message, channel ,access\_token,twit\_access,twit\_secret)

# Social Media Suite APIs

## Get User Profile

This service allows you to retrieve user profile details from Facebook, Twitter and Google+.

### API

#### Java

#### /socialRest/ v1/UserInfo/getUser

### Parameters

**userId** – User’s unique identification (e.g. Facebook ,Twitter and GooglePlus – john )

**channels** – Social media sites such as Facebook, Twitter and Google+

**access\_token** – Optional parameter which allows to retrieve more profile information of facebook users

#### .Net

/SMI/SocialMediaImpl.svc/getUserProfile

### Parameters

**userId** – User’s unique identification (e.g. Facebook ,Twitter and GooglePlus – john )

**channels** – Social media sites such as Facebook, Twitter and Google+

**fbAccessToken** – Optional parameter which allows to retrieve more profile information of facebook users

### Sample

#### Java

#### Request

#### <http://localhost:8081/socialRest/v1/UserInfo/getUser?userId=raseeth&channels=google,facebook,twitter>

#### Response

{

"data": [(12)

{

"id": "532100378",

"gender": "male",

"name": "Safeer Mohamad",

"username": null,

"firstName": "Safeer",

"lastName": "Mohamad",

"location": null,

"url": null,

"profileImage": null,

"locale": "en\_GB",

"updatedTime": null,

"email": null,

"channel": "Facebook"

},{

"id": "76274597",

"gender": null,

"name": "Rashid",

"username": "raseeth",

"firstName": null,

"lastName": null,

"location": "jeddah",

"url": null,

"profileImage": "<https://si0.twimg.com/profile_images/429130085/rasid_normal.jpg>",

"locale": null,

"updatedTime": null,

"email": null,

"channel": "Twitter"

},{

"id": "100427396696286493360",

"gender": "male",

"name": "abdul raseeth",

"username": null,

"firstName": "<https://lh4.googleusercontent.com/-jyTy1pwy3Zw/AAAAAAAAAAI/AAAAAAAAAAA/TFA8TGdh16o/photo.jpg?sz=50>",

"lastName": null,

"location": null,

"url": "https://plus.google.com/100427396696286493360",

"profileImage": null,

"locale": null,

"updatedTime": null,

"email": null,

"channel": "Google Plus"

}],

"count": 12,

"success": true

}

#### .Net

#### Request

<http://localhost:8080/SMI/SocialMediaImpl.svc/getUserProfile?userId=john&channels=facebook,twitter>

#### Response

{

"data": [{

"channel": "Facebook",

"email": null,

"firstName": "John",

"gender": "male",

"id": "779695190",

"lastName": "Chan",

"locale": "en\_US",

"location": null,

"name": "John Chan",

"profileImage": null,

"updatedTime": null,

"url": null,

"username": "John"

}, {

"channel": "Twitter",

"email": null,

"firstName": null,

"gender": null,

"id": "17151344",

"lastName": null,

"locale": null,

"location": "newport beach, ca",

"name": "john shahidi",

"profileImage": "http:\/\/a0.twimg.com\/profile\_images\/2426017958\/5g3vv38wd6yobj1msuk2\_normal.jpeg",

"updatedTime": null,

"url": "http:\/\/rocklive.com",

"username": "john"

}],

"error": null

}

## Search Messages

This API retrieves posts, tweets and messages from the social media sites for the given query.

#### API

#### Java

### socialRest/v1/Message/searchMessage

### Parameters

**query** – search keyword

**channels** – Social media sites such as Facebook and Twitter

#### .Net

/SMI/SocialMediaImpl.svc/searchMessage

### Parameters

**query** – search keyword

**channels** – Social media sites such as Facebook and Twitter

### Sample

#### Java

#### Request

#### <http://localhost:8081/socialRest/v1/Message/searchMessage?query=lucky&channels=Twitter,Facebook>

#### Response

{

"data": [

{

"id": "100003341514213\_135370523269901",

"username": "Ma La Yo",

"message": null,

"type": "photo",

"createdTime": "Fri Jul 27 18:52:52 IST 2012",

"updatedTime": "Fri Jul 27 18:52:52 IST 2012",

"channel": "Facebook"

}, {

"id": "228843002452389888",

"username": "Kyle Leavers",

"message": "@MJCardinale #jays are lucky they aren't seeing @JustinVerlander",

"type": null,

"createdTime": "Fri Jul 27 18:53:18 IST 2012",

"updatedTime": null,

"channel": "Twitter"

}],

"count": 25,

"success": true

}

#### .Net

#### Request

#### <http://localhost:8080/SMI/SocialMediaImpl.svc/searchMessage?query=smartek21&channels=twitter>

#### Response

{

"data": [{

"channel": "Twitter",

"createdTime": "7\/20\/2012 7:21:43 AM",

"id": "226215295352705024",

"message": "Washington's Fastest Growing Private Companies celebrated - Smartek21 in the list - http:\/\/t.co\/HztXts6U via @PSBJ",

"type": null,

"updatedTime": null,

"username": "sanvlr12"

}],

"error": null

}

## Post Messages

This API posts the given message in all the social media websites.

### API

#### Java

/socialRest/v1/Message/postMessage

### Parameters

***message*** *– Post Message*

***channels*** *– Social media sites such as Facebook and Twitter*

***access\_token*** *– facebook access token*

***twit\_token*** *– twitter access token*

***twit\_secret*** *- twitter token secret*

#### .Net

**/**SMI/SocialMediaImpl.svc/postMessage

### Parameters

***message*** *– Post Message*

***channels*** *– Social media sites such as Facebook and Twitter*

***fbToken*** *– facebook access token*

***twToken*** *– twitter access token*

***twTokenSecret*** *- twitter token secret*

### Sample

#### Java

#### Request

#### http://localhost:8081/socialRest/v1/Message/postMessage?message=Api Test&channels=facebook,twitter&access\_token=AAAHFVUtVlK0BAKphWcLW00sjDsmZAADcZBtMUnsvScL8Y1Hzcmm1DPf7kJ5lcZAb2fQA36ZChsdKXedIakwlxzuuOWPZCnQSkxIAm5qerAQZDZD&twit\_access=627133469-3CO0q07aWTarymoEJEZRdl4bhFfRHaaKmpAvLFtM&twit\_secret=3iLYEhVocIMXqtrvgrx8wssuF4QAC5tIsNp1qxDPE

#### Response

{

"data": [

{

"messageId": "100000656880121\_453478878017338",

"channel": "Facebook"

},{

"messageId": "228844923569451009",

"channel": "Twitter"

}],

"count": 2,

"success": true

}

#### .Net

#### Request

#### <http://localhost:8080/SMI/SocialMediaImpl.svc/postMessage?message=Test&channels=facebook,twitter&fbToken=AAADqVYMBLYIBANqLpfiWF9KgSn98IXYY0xfUOr5RKgf2K3sezFoCRSfcYybl5a0Fud8yuB75ZCUmpcoMmZA4dS8H1A4lgR6WRQ0UfB4QZDZD&twToken=627133469-3NkzV2dAN1Z9tgmphKZrKpCIifuzd101xMK88AU&twTokenSecret=8A2SLe5iFFzi10lERFaW5y2PKoyaSoNYSwG27r92E>

#### Response

{

"data": [{

"channel": "Facebook",

"messageId": "{\"id\":\"100000656880121\_453395931358966\"}"

}, {

"channel": "Twitter",

"messageId": "228751796305264640"

}],

"error": null

}