

**Acknowledgement API  
Functional Specifications  
VERSION 1.0**

August 01, 2016

Principal Author: SOCAN  
Contributing Authors:

Category of the document : Functional Specifications

Status of the document : V1

Distribution List : SOCAN

**Table of revisions and main modifications**

<b>Number of revision</b>	<b>Date</b>	<b>Main modifications</b>
1.0	2016/08/01	➤ Draft version

**Summary:**

This document contains the technical description of the Acknowledgement API version 1.0 the format of transactions and records are included.

## TABLE OF CONTENTS

<b>Standards for Acknowledgement Service Requests .....</b>	<b>4</b>
<b>1 Introduction .....</b>	<b>4</b>
<b>1.1 Legend .....</b>	<b>4</b>
Field type (Req):.....	4
API:.....	4
Data Format (Fmt) Table: .....	4
<b>2. Web Service Requests .....</b>	<b>5</b>
<b>2.1 Service.....</b>	<b>5</b>
<b>2.2 Sandbox .....</b>	<b>5</b>
<b>3. Security.....</b>	<b>5</b>
<b>3.1 Identification .....</b>	<b>5</b>
<b>3.2 Encryption.....</b>	<b>5</b>
<b>3.3 OAuth .....</b>	<b>5</b>
<b>4. Validation/Processing of Requests .....</b>	<b>6</b>
<b>4.1 Request Information .....</b>	<b>6</b>
Acknowledgement Record Description.....	6
Acknowledgement Record Format.....	6
<b>5. Response/Confirmation .....</b>	<b>7</b>
<b>5.1 Security.....</b>	<b>7</b>
Response Description .....	7
<b>5.2 Accepted/Success .....</b>	<b>7</b>
Response Description .....	7
Response Format .....	7
<b>5.3 Rejected/Error .....</b>	<b>7</b>
Response Description .....	7
Response Format .....	7
Error Codes.....	7

# Standards for Acknowledgement Service Requests

## 1 Introduction

### 1.1 Legend

#### Field type (Req):

- O – Optional
- M – Mandatory
- C – Conditional

Optional fields are in Normal type font.

Mandatory and Conditional fields are in Bold/Italic type font.

#### API:

Refers to the API the acknowledgement request is being submitted for.

Code	Description
<b>1001000</b>	Works

#### Data Format (Fmt) Table:

- **Data Format:** The type of data included in this field. Data present in a field that is inconsistent with the rules defined below will cause that record (and potentially the entire transaction) to be rejected. The legend of type abbreviations is...

Code	Description	Default Size	Rules
<b>A</b>	Alpha or Alphanumeric	None	Any string containing valid ASCII text. Note that nulls are not acceptable and all alphabetic characters must be in upper case. If there is no data to be entered in an alpha field, blanks must be entered. If there is no data to be entered in an alpha field, it should be left blank.

## 2. Web Service Requests

### 2.1 Service

The service will be located at <https://api.socan.ca/api/getACK>. The service is expecting a request that will contain JSON.

### 2.2 Sandbox

A test service will also be made available at <https://api.socan.ca/sandbox/getACK>. This service is expecting the same type of request.

You will have to use a different credential (API Key, API Secret, Username and Password) to use the service and obtain a token.

## 3. Security

Requests submitted to the Acknowledgement Service will only be accepted from applications that meet the following conditions.

### 3.1 Identification

To use the service requestors will have to identify themselves through a security key to the API portal. It will have to be added to the request as a parameter. (i.e. <https://api.socan.ca/api/getACK?apiKey=<KEY>>)

Users will also have to provide an OAuth token (see section 3.3 OAuth).

### 3.2 Encryption

All requests sent to SOCAN for processing must be sent as **HTTP Post** request over **SSL** or they will be rejected.

All requests must use at least **TLS 1.2** or the request will be rejected/blocked.

### 3.3 OAuth

Requests submitted must include an OAuth token. A token can be obtained by submitting a request to <https://api.socan.ca/auth/oauth/v2/token>

A HTTP post request will be required with the same security requirements as stated above. The request will need to contain the following parameters to obtain a token:

Parameter	Value	Description/Validation
-----------	-------	------------------------

<b>client_id</b>		This is the api key that will be provided by SOCAN or looked up in the developer portal for the NLMP api.
<b>client_secret</b>		Api Secret that will be provided by SOCAN or looked up in the developer portal for the NLMP api.
<b>grant_type</b>	password	This value should be set as password.
<b>password</b>		Submitter SOCAN password
<b>username</b>		Submitter SOCAN username

A valid token will be returned or a JSON error message such as:

```
{
  "error": "invalid_client",
  "error_description": "The given client credentials were not valid"
}
```

## 4. Validation/Processing of Requests

If a secure connection can be established and the submitter verified the request will be processed. The submitter must have permission to submit the request for the member (Member No. in the request). The data received in the request will only be saved and accepted by SOCAN if it meets the following requirements.

### 4.1 Request Information

#### Acknowledgement Record Description

The JSON contains the information required to retrieve the acknowledgement file.

#### Acknowledgement Record Format

Field	Size	Fmt	Req	Prg	Field Description/Validation
<b>API</b>	7	N	M	ALL	Unique SOCAN ID of the API
<b>MEMBER_NO</b>	7 Or 11	N  N	M	ALL	Unique ID of the member the form was submitted on behalf of. This must be a SOCAN Member No. (7 Numeric Characters) or IPI No. (11 Numeric Characters)
<b>CODE</b>	2	A	M	ALL	Unique ID of the Acknowledgement being retrieved. This code will be obtained when the original request was submitted.

## 5. Response/Confirmation

### 5.1 Security

#### Response Description

If a secure connection cannot be established, you will receive a HTTP Status Code in response.

### 5.2 Accepted/Success

#### Response Description

If the request is valid the response will return an acknowledgement file.

#### Response Format

Field	Description
file	An Excel file will be returned in the response.

### 5.3 Rejected/Error

#### Response Description

If the request is rejected because of an error, you will receive an error in response with a list of the errors.

#### Response Format

Field	Example
Response	ERROR: <XXXXXXX>

#### Error Codes

Error Code	Regarding	Error Description
9910000	<b>SECURITY</b>	Security conditions were not satisfied.
9910001	<b>SECURITY</b>	Security conditions were not satisfied. Requests sent to SOCAN for processing must be sent using SSL
9910002	<b>SECURITY</b>	Security conditions were not satisfied. Requests sent to SOCAN for processing must be sent using HTTP Post.
9920000	<b>IDENTIFICATION/PERMISSION</b>	Provided credentials do not allow you to call API.
9920001	<b>IDENTIFICATION/PERMISSION</b>	Provided credentials do not allow you to call API on behalf of MEMBER_NO.
9930000	<b>JSON</b>	Invalid JSON, request could not be processed.
9940001		Acknowledgment file is not ready
9900000		Error - Contact SOCAN