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API Specifications
Member Verification

Prepared By	**{SOCAN }**
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Revision History

Issue	Date	Description
0.01	Jan 1, 2017	First Draft
0.02	Mar 3, 2017	Details
0.03	Mar 6, 2017	
0.04	Mar 6, 2017	Description added to Legal names

Summary:

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

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TABLE OF CONTENTS

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Standards for Member Verification API Service Requests

Introduction

Member Verification API ….

Before you can begin using this API you must registered as a developer on developer.socan.ca and obtains the proper approvals. This is so you will have access to the necessary information such as API Keys.

Legend

Field Required (Req):

O – Optional
M – Mandatory
C – Conditional

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

Field Type (Type):

The Appendix contains the codes for all the possible values.

Code	Description
ST	Shareholder Type: Writer, Publisher, Performer
SO	String Option: Exact, Begins With Contains
STR	String – Alpha Numeric String is expected

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Web Service Requests

Production

The service will be located at https://api.socan.ca/api/MemberVerfication. The service is expecting a JSON request that will contain the search parameters. You will also be required to submit an OAuth token with the request that will identify the developer making the request.

Sandbox

A test service will also be made available at https://api.socan.ca/sandbox/MemberVerification this service is expecting the same type of request. You will have to use different credentials (API Key, API Secret, Username, Password) to use the service and obtain a token.

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Security

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

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/MemberVerfication?apiKey=<KEY>)

Users will also have to provide an OAuth token. A user can obtain the OAuth token required by submitting a request to https://api.socan.ca/auth/oauth/v2/token with the correct parameters / credentials.

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.

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
client_id		This is the API key that will be looked up in the developer portal for the Public Repertoire API.
client_secret		API Secret that will be provided by SOCAN or looked up in the developer portal for the NLMP API.
grant_type	password	This value should be set as password.
password		Developer password
username		Developer username

The Developer credentials are the ones used to login too https://developer.socan.ca/

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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"
}
```


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Validation/Processing of Requests

If a secure connection can be established and the developer verified the request will be processed. The request will only be processed by SOCAN if the JSON meets the schema requirements and passes all validation requirements.

Request Record Format

Field	Req	Type	Description/Validation
IPI_NO	M	String	User's IPI number
LEGAL_NAME	M	String	User's legal name (In this order: Last name middle name first name)

Request Level Validation

Security

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

Field-level validation:

The input passed to the web service must meet the following criteria:

- **IPI number limited to a maximum of 11 characters**
- **Name cannot include special characters such as @ sign or &**
- **Name input with valid characters (i.e. French accent) will be processed and the characters replaced with allowed characters before being submitted to the service for verficiation.**

Rejected/Error

If the request is rejected due to a validation error, you will receive a JSON string in the response. It will contain an error code. An explanation of all the error codes is presented below:

Response Error Example

```
{
"Error":"<9900001>"
}
```

Error Codes

Error Code	Regarding	Error Description
0100001	SSL	Requests must be made over SSL.
0200001	Web Method	Requests must be sent as a POST.
0300001	OAuth	Requests must have a valid OAuth token.
0400001	JSON Schema	Requests must have a valid JSON string that meets the requirements.
0500001	Threat Protection	Request was rejected because of a potential security threat.

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9900001	Submission Failure	Error - Contact SOCAN
9999999		Error - Contact SOCAN

Valid Response Record Format

A JSON string will be returned that contains a list of work verifications

MEMBERS

Field Name	Description
VerifiedMember	The field indicates whether the member is a verified member – VerifiedMember="YES" - or "NO" for any other reason.

Examples of valid responses:

Data is invalid, member is not verified and an error occurred:

```
{
"VerifiedMember":"NO"
,"Error":"<9900001>"
}
```

Member verified:

```
{"VerifiedMember":"YES"}
```


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