

**Writer Applicant API
Functional Specifications
VERSION 1.0**

March 8, 2017

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Category of the document : Functional Specifications
Status of the document : V1

Distribution List : SOCAN

Table of revisions and main modifications

Number of revision	Date	Main modifications
1.0	2017/03/01	➤ Draft version
1.1	2017/03/08	➤ Minor edits
		➤
		➤
		➤

Summary:

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

TABLE OF CONTENTS

<i>Standards for Writer Applicant API Service Requests</i>	4
1 Introduction	4
1.1 Legend	4
Field type (Req):.....	4
Data Format (Fmt) Table:	4
2. Web Service Requests	6
2.1 Service	6
2.2 Sandbox	6
3. Security	7
3.1 Identification	7
3.2 Encryption	7
3.3 OAuth	7
4. Validation/Processing of Requests	9
Request Level Validation	9
1.1.1/ Writer Applicant Record Description	9
1.1.2/ Writer Applicant Record Format	9
5. Response/Confirmation	10
5.1 Security	10
Response Description	10
5.2 Accepted/Success	10
Response Description	10
Rejected/Error	11
Response Description	11
Response Format	11
Error Codes.....	11
6. Appendix	12
Appendix A: Hear of SOCAN	12
Appendix B: Province/State.....	13
Appendix C: Country	15

Standards for Writer Applicant API 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.

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
A	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.
B	Boolean	1	Field must be equal to <Y>es or <N>o
E	Email	None	Field must have a format of AAAAA@AAAA.AA
D	Date	10	Dates are all formatted as YYYY/MM/DD.
N	Numeric	None	If there is an implied decimal point, it will be defined in the record layout.
P	Telephone Number		Canadian applicants must have the phone number that can be formatted as (XXX)_XXX_-_XXXXAAAA 10 – 14 characters must be provided. First 10 must be numeric. The extension (last 4 characters) are not mandatory. Non Canadian applicants can be in any format.

Code	Description	Default Size	Rules
T	Time or Duration	6	Time/Duration fields are all formatted as hh : mm PM. hh valid values = 1 to 12 mm valid values = 00, 15, 30, 45 PM valid values = AM, PM
L	List or Table Lookup	None	The valid entries for these fields come from a list in the field description or a table. Note that the values for these tables can be found in the Appendix.

2. Web Service Requests

2.1 Service

The service will be located at <https://api.socan.ca/api/JoinSOCAN>. The service is expecting a JSON request that will contain writer application data. You will also be required to submit an OAuth token with the request that will identify the submitter.

2.2 Sandbox

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

3. Security

Requests submitted to the Writer Applicant Web Service will only be accepted from applications that meet the following conditions

3.1 Identification

To submit a web service, request the online writer applicant form will have to identify 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/JoinSOCAN?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.

3.2 Encryption

All requests sent to SOCAN for processing must be sent 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
client_id		This is the api key that will be provided by SOCAN or looked up in the developer portal for the NLMP 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		Submitter SOCAN password
username		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 data received in the request will only be saved and accepted by SOCAN if it meets the following requirements.

Request Level Validation

1. A JSON formatted request is expected that will contain a JSON formatted string. If it does not, an error will be produced and the writer application will not be processed.

1.1.1/ Writer Applicant Record Description

The record contains information submitted from the online form for writer applicant.

Writer Applicant Processing

An application is only submitted successfully if the following conditions are fulfilled:

1. A valid (unique in the system) user id is provided by the applicant
2. The request will be processed and will only be saved in the SOCAN database if all the mandatory fields are completed and successfully validated by the system.

1.1.2/ Writer Applicant Record Format

Field	Size	Fmt	Req	Field Description/Validation
GIVEN_NAMES	20	A	M	
MIDDLE_NAME	20	A	O	
LAST_NAME	25	A	M	
DATE_OF_BIRTH	10	D	M	MM/DD/YYYY
LANGUAGE_PREFERENCE	1	A	M	This is E for English and F for French, based on the language of the writer online application page the request has been submitted from
STREET1	40	A	M	
CITY	25	A	M	

Field	Size	Fmt	Req	Field Description/Validation
PROVINCE	30	L	M	
COUNTRY	100	L	M	
POSTAL_CODE	10	A	M	
PHONE_NO1	20	A	M	
EMAIL_ADDRESS	50	A	M	
EMAIL_ADDRESS_VERIFY	50	A	M	
USER_ID	16	A	M	6 – 16 characters
PASSWORD	16	A	M	6 – 16 characters
PASSWORD_VERIFY	50	A	M	
HEAR_OF_SOCAN		L	M	
TERMS	1	B	M	Confirmation that they agreed to Terms & Conditions at https://www.socan.ca/WriterApplicant/terms-conditions-of-membership/

5. Response/Confirmation

5.1 Security

Response Description

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

5.2 Accepted/Success

Response Description

If the request is accepted, you will receive a response with a confirmation number. The response will be JSON that will contain an `accepted` field that contains the confirmation number. An example is below:

```
{
  "accepted": "9999999"
}
```

Rejected/Error

Response Description

If the request is rejected because of an error, you will receive a JSON in response with a list of error codes with the reason for the failure.

Response Format

```
{"errors":[{"error":"3000001"}, {"error":"6000002"}]}
```

Error Codes

Error Code	Regarding	Error Description
0100001	SECURITY	SSL
0200001	SECURITY	POST
0300001	SECURITY	OAUTH
0301001	SECURITY	SUBMITTER Failure
0400001	SECURITY	JSON Schema
0500001	SECURITY	Threat/Injection/Message Size
1000001	FIRST NAMES	You must include a first name
1000002		Length must be between 1 - 20 characters.
1001001	MIDDLE NAME	Length must be between 1 - 20 characters
1002001	LAST NAME	You must include a last name
1002002		Length must be between 1 - 25 characters
1003001	DATE OF BIRTH	Must be provided, it is a mandatory field.
1003002		Must be a valid date (MM/DD/YYYY)
2000001	STREET1	Must be provided, it is a mandatory field
2000002		Length must be between 1 - 40 characters
2003001	CITY	Must be provided, it is a mandatory field.
2003002		Length must be between 1 - 25 characters
3000001	PROVINCE/STATE	Must be provided, it is a mandatory field
3000002		Must match a code in Appendix B
3000003		Must be OTHER if Country is not CAN or USA
4000001	COUNTRY	Must be provided, it is a mandatory field.
4000002		Must match a code in Appendix C
5000001	POSTAL CODE/ZIP	Must be provided, it is a mandatory field

5000002		Length must be between 5 - 10 characters
6000001	PHONE NO	Must be provided, it is a mandatory field.
6000002		Length must be between 1 - 20 characters
7000001	EMAIL ADDRESS	Must be provided, it is a mandatory field.
7000002		Length must be between 1 - 50 characters
7000003		Invalid Email Format
7000004	EMAIL ADDRESS VERIFY	Must Match Email
8000001	USER ID	Must be provided
8000002		Length 1- 16
8000003		No spaces or special characters
8000004		Duplicate or invalid credentials
9000001	PASSWORD	Must be provided
9000002		Length must be between 1 - 15 characters
9000003		No spaces or special characters
9000004	PASSWORD_VERIFY	Passwords do not match
1100001	HEAR_OF_SOCAN	Not valid, value must be from list
1200002	TERMS	Must Accept , must be "Y"
1300003	LANGUAGE_PREFERENCE	Must be "E" or "F"
9900000-9999999		Error – Contact SOCAN

6. Appendix

Appendix A: Hear of SOCAN

How Did You Hear About SOCAN?	Value
Manager / Agent / Lawyer / Other Industry Professional	AGENT
Industry Event / Conference / Panel	IND
Media Coverage (e.g. newspaper, radio, TV, web)	MEDIA
SOCAN Literature (e.g. Words & Music, "Get Paid" Info Card)	SLIT
Contacted by SOCAN	SOCAN
SOCAN came to my school	SCHOL
Search Engine (e.g. Google, Yahoo, Bing)	SE

SOCAN Swag	SSWAG
Advertisement (e.g. print, radio, web)	AD
Social Media	SM
SOCAN Songwriting Prize	ECHO
SOCAN Foundation	SF
Other	OTHER

Appendix B: Province/State

Province/State	Value
Other	OTHER
Alberta	AB
British Columbia	BC
Manitoba	MB
New Brunswick	NB
Newfoundland and Labrador	NL
Northwest Territories	NT
Nova Scotia	NS
Nunavut	NU
Ontario	ON
Prince Edward Island	PE
Québec	QC
Saskatchewan	SK
Yukon Territory	YT
Alabama	AL
Alaska	AK
Arizona	AZ
Arkansas	AR
California	CA
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Florida	FL
Georgia	GA

Hawaii	HI
Idaho State	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Massachusetts	MA
Michigan	MI
Minnesota	MN
Mississippi	MS
Missouri	MO
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Vermont	VT
Virginia	VA
Washington	WA

West Virginia	WV
Wisconsin	WI
Wyoming	WY

Appendix C: Country

Country	Value
ARUBA	ABW
AFGHANISTAN	AFG
ANGOLA	AGO
ANGUILLA	AIA
ALBANIA	ALB
ANDORRA	AND
NETHERLANDS ANTILLES	ANT
UNITED ARAB EMIRATES	ARE
ARGENTINA	ARG
ARMENIA	ARM
AMERICAN SAMOA	ASM
ANTARCTICA	ATA
FRENCH SOUTHERN TER.	ATF
ANTIGUA AND BARBUDA	ATG
AUSTRALIA	AUS
AUSTRIA	AUT
AZERBAIJAN	AZE
AZORES	AZO
BURUNDI	BDI
BELGIUM	BEL
BENIN	BEN
BURKINA FASO	BFA
BANGLADESH	BGD
BULGARIA	BGR
BAHRAIN	BHR
BAHAMAS	BHS
BOSNIA-HERZEGOVINA	BIH
BELARUS	BLR
BELIZE	BLZ

BERMUDA	BMU
BOLIVIA	BOL
BRAZIL	BRA
BARBADOS	BRB
BRUNEI DARUSSALAM	BRN
BHUTAN	BTN
BOUVET ISLAND	BVT
BOTSWANA	BWA
CENTRAL AFRICAN REP.	CAF
CANADA	CAN
COCOS (KEELING) ISL.	CCK
SWITZERLAND	CHE
CHILE	CHL
CHINA	CHN
IVORY COAST	CIV
CAMEROON	CMR
CANARY ISLANDS	CNP
DEMOC. REP. OF CONGO	COD
REPUBLIC OF CONGO	COG
COOK ISLANDS	COK
COLOMBIA	COL
COMOROS	COM
CAPE VERDE	CPV
COSTA RICA	CRI
CUBA	CUB
CHRISTMAS ISLAND	CXR
CAYMAN ISLANDS	CYM
CYPRUS	CYP
CZECH REPUBLIC	CZE
GERMANY	DEU
DJIBOUTI	DJI
DOMINICA	DMA
DENMARK	DNK
DOMINICAN REPUBLIC	DOM
ALGERIA	DZA
ECUADOR	ECU
EGYPT	EGY

ERITREA	ERI
WESTERN SAHARA	ESH
SPAIN	ESP
ESTONIA	EST
ETHIOPIA	ETH
FINLAND	FIN
FIJI	FJI
FALKLAND ISLANDS	FLK
FRANCE	FRA
FAROE ISLANDS	FRO
MICRONESIA	FSM
GABON	GAB
UNITED KINGDOM	GBR
GEORGIA	GEO
GHANA	GHA
GIBRALTAR	GIB
GUINEA	GIN
GUADELOUPE	GLP
GAMBIA	GMB
GUINEA-BISSAU	GNB
EQUATORIAL GUINEA	GNQ
GUERNSEY	GNS
ISLE OF MAN	GRB
GREECE	GRC
GRENADA	GRD
GREENLAND	GRL
GUATEMALA	GTM
FRENCH GUIANA	GUF
GUAM	GUM
GUYANA	GUY
HONG KONG	HKG
HEARD/MCDONALD ISLD.	HMD
HONDURAS	HND
CROATIA	HRV
HAITI	HTI
HUNGARY	HUN
INDONESIA	IDN

INDIA	IND
BR.INDIAN OCEAN TER.	IOT
IRELAND	IRL
IRAN	IRN
IRAQ	IRQ
ICELAND	ISL
ISRAEL	ISR
ITALY	ITA
JAMAICA	JAM
JORDAN	JOR
JAPAN	JPN
JERSEY	JRS
KAZAKHSTAN	KAZ
KENYA	KEN
KYRGYZSTAN	KGZ
CAMBODIA	KHM
KIRIBATI	KIR
ST. KITTS AND NEVIS	KNA
REPUBLIC OF KOREA	KOR
KUWAIT	KWT
DEMOCR. REP. OF LAO	LAO
LEBANON	LBN
LIBERIA	LBR
LIBYAN AR.JAMAHIRIYA	LBY
SAINT LUCIA	LCA
LIECHTENSTEIN	LIE
SRI LANKA	LKA
LESOTHO	LSO
LITHUANIA	LTU
LUXEMBOURG	LUX
LATVIA	LVA
MACAO	MAC
MOROCCO	MAR
MONACO	MCO
REPUBLIC OF MOLDOVA	MDA
MADAGASCAR	MDG
MADEIRA ISLANDS	MDR

MALDIVES	MDV
MEXICO	MEX
MARSHALL ISLANDS	MHL
MACEDONIA	MKD
MALI	MLI
MALTA	MLT
MYANMAR	MMR
MONTENEGRO	MNE
MONGOLIA	MNG
NORTHERN MARIANA IL.	MNP
MOZAMBIQUE	MOZ
MAURITANIA	MRT
MONTSERRAT	MSR
MARTINIQUE	MTQ
MAURITIUS	MUS
MALAWI	MWI
MALAYSIA	MYS
MAYOTTE	MYT
NAMIBIA	NAM
NEW CALEDONIA	NCL
NIGER	NER
NORFOLK ISLANDS	NFK
NIGERIA	NGA
NICARAGUA	NIC
NIUE	NIU
NETHERLANDS	NLD
NORWAY	NOR
NEPAL	NPL
NAURU	NRU
NEW ZEALAND	NZL
OMAN	OMN
PAKISTAN	PAK
PANAMA	PAN
PITCAIRN	PCN
PERU	PER
PHILIPPINES	PHL
PALAU	PLW

PAPUA NEW GUINEA	PNG
POLAND	POL
PUERTO RICO	PRI
REP. OF NORTH KOREA	PRK
PORTUGAL	PRT
PARAGUAY	PRY
PALESTINIAN TERR.	PSE
FRENCH POLYNESIA	PYF
QATAR	QAT
REUNION	REU
ROMANIA	ROU
RUSSIAN FEDERATION	RUS
RWANDA	RWA
SAUDI ARABIA	SAU
SUDAN	SDN
SENEGAL	SEN
SINGAPORE	SGP
SOUTH GEORGIA	SGS
SAINT HELENA	SHN
SVALBARD ISLANDS	SJM
SOLOMON ISLANDS	SLB
SIERRA LEONE	SLE
EL SALVADOR	SLV
SAN MARINO	SMR
SOMALIA	SOM
ST. PIERRE & MIQUELON	SPM
SAO TOME & PRINCIPE	STP
SURINAME	SUR
SLOVAKIA	SVK
SLOVENIA	SVN
SWEDEN	SWE
SWAZILAND	SWZ
SEYCHELLES	SYC
SYRIAN ARAB REPUBLIC	SYR
TURKS & CAICOS ILDS.	TCA
CHAD	TCD
TOGO	TGO

THAILAND	THA
TAJIKISTAN	TJK
TOKELAU	TKL
TURKMENISTAN	TKM
TIMOR-LESTE	TMP
TONGA	TON
TRINIDAD AND TOBAGO	TTO
TUNISIA	TUN
TURKEY	TUR
TUVALU	TUV
TAIWAN	TWN
TANZANIA	TZA
UGANDA	UGA
UKRAINE	UKR
US OUTLYING ISLANDS	UMI
URUGUAY	URY
UNITED STATES	USA
UZBEKISTAN	UZB
VATICAN CITY STATE	VAT
ST.VINCENT GRENADINE	VCT
VENEZUELA	VEN
BR. VIRGIN ISLANDS	VGB
U.S. VIRGIN ISLANDS	VIR
VIETNAM	VNM
VANUATU	VUT
WALLIS & FUTUNA ILDS	WLF
SAMOA	WSM
YEMEN	YEM
SERBIA/MONTENEGRO	YUG
SOUTH AFRICA	ZAF
ZAMBIA	ZMB
ZIMBABWE	ZWE