

# SOCAN

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## **API Code Samples** **JOIN SOCAN API Code Sample**

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## API Code Samples

### Join SOCAN API

To submit a writer application request to join SOCAN, you must submit a JSON string along with all the required fields. The API Specification document at <https://developer.socan.ca/documentation> will provide further details on all the requirements to submit a request to join SOCAN.

Before you begin, you need to consider the following:

- The sample describes how to create web requests using RestSharp visual studio extension (run 'Install-Package RestSharp' in NuGet PM to install).
- Ensure that Service Point Manager is set to return true for all certificates and its security protocol property is set to TLS12.

Below are the steps required to submit a Works API request:

1. Setup the request to use the URL corresponding to the Join Socan API call and ensure it is using SSL (set to return true for all certificates in our example), TLS1.2, and a POST Method. You also must attach the API Key as a parameter to the query string.

```
string url = "https://api.socan.ca/sandbox/JoinSOCAN";
string apiKey = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
string webMethod = "?apiKey=" + apiKey;
...
ServicePointManager.ServerCertificateValidationCallback = delegate { return true; };
ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12;
```

2. Attach OAuth Token to Request (For more information, refer to "OAuthAPICodesSamples.pdf" document)

```
string oauthToken = GetOAuthToken();
string token = "Bearer " + oauthToken;
request.AddDefaultHeader("Authorization", token);
```

3. Attach JSON to request

```
string joinJSON = "{" +
  "\"GIVEN_NAMES\": \"Jane\", " +
  "\"MIDDLE_NAME\": \"\", " +
  "\"LAST_NAME\": \"Smith\", " +
  "\"DATE_OF_BIRTH\": \"01/01/1985\", " +
  "\"STREET1\": \"41 Valley\", " +
  "\"CITY\": \"Toronto\", " +
  "\"PROVINCE\": \"\", " +
  "\"COUNTRY\": \"CAN\", " +
  "\"POSTAL_CODE\": \"M2M2M2\", " +
  "\"PHONE_NO1\": \"416 445 8700\", " +
  "\"EMAIL_ADDRESS\": \"sandbox2@socan.ca\", " +
  "\"EMAIL_ADDRESS_VERIFY\": \"sandbox2@socan.ca\", " +
  "\"USER_ID\": \"MyUserID\", " +
  "\"PASSWORD\": \"MyPassword\", " +
```

```
"\"PASSWORD_VERIFY\": \"MyPassword\", " +  
"\"HEAR_OF_SOCAN\": \"SOCAN\", " +  
"\"LANGUAGE_PREFERENCE\": \"E\", " +  
"\"TERMS\": \"Y\""  
"}";
```

...

```
uploadRequest.AddParameter("application/json", joinJSON, ParameterType.RequestBody);
```

#### 4. Submit Request and Process response.

```
var theResponse = request.Execute(uploadRequest);  
response = theResponse.Content;
```

Below is the full example suitable for inclusion in a Web Application project:

```
string url = "https://api.socan.ca/sandbox/JoinSOCAN";
string apiKey = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
string webMethod = "?apiKey=" + apiKey;

string oAuthToken = GetOAuthToken(); // Refer to OAuth document for more details

string token = "Bearer " + oAuthToken;

string joinJSON = "{" +
    "\"GIVEN_NAMES\": \"Jane\", " +
    "\"MIDDLE_NAME\": \"\", " +
    "\"LAST_NAME\": \"Smith\", " +
    "\"DATE_OF_BIRTH\": \"01/01/1985\", " +
    "\"STREET1\": \"41 Valley\", " +
    "\"CITY\": \"Toronto\", " +
    "\"PROVINCE\": \"\", " +
    "\"COUNTRY\": \"CAN\", " +
    "\"POSTAL_CODE\": \"M2M2M2\", " +
    "\"PHONE_NO1\": \"416 445 8700\", " +
    "\"EMAIL_ADDRESS\": \"sandbox2@socan.ca\", " +
    "\"EMAIL_ADDRESS_VERIFY\": \"sandbox2@socan.ca\", " +
    "\"USER_ID\": \"myUserID\", " +
    "\"PASSWORD\": \"myPassword\", " +
    "\"PASSWORD_VERIFY\": \"myPassword\", " +
    "\"HEAR_OF_SOCAN\": \"SOCAN\", " +
    "\"LANGUAGE_PREFERENCE\": \"E\", " +
    "\"TERMS\": \"Y\" " +
    "}";

try
{
    ServicePointManager.ServerCertificateValidationCallback = delegate { return true; };
    ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12;

    var request = new RestClient(url);
    request.AddDefaultHeader("Authorization", token);

    var uploadRequest = new RestRequest(webMethod, Method.POST);

    uploadRequest.AddParameter("application/json", joinJSON, ParameterType.RequestBody);

    var response = request.Execute(uploadRequest);

    Session["JoinSocan"] = response.Content;
}
catch (Exception exception)
{
    Session["Error"] = "Error: " + exception.Message;
    throw;
}
```