

# SOCAN

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## **API Code Samples Verify Member API Code Samples**

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## API Code Samples

### Member Verification API

To submit a status request to verify a member, you will require the IPI Number and Legal Name. The API Specification document (located at <https://developer.socan.ca/documentation> ) will provide further details on all the requirements to submit a member verification request.

Before you begin, you need to consider the following:

- The first sample uses the standard System.Net standard web library for creating the web request.
- The second 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.

Listed below are the steps required to submit a Works API request:

1. Setup the request to use the URL corresponding to Verify Member 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/MemberVerification";
string apiKey = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
link += "?apiKey=" + apiKey;
HttpRequest request = (HttpRequest)WebRequest.Create(link);
request.Method = "POST";
...
```

```
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 verifyJSON = "{\"LEGAL_NAME\":\"JOHN SMITH\", \"IPI_NO\":\"999999\"}";
...
using (var streamWriter = new StreamWriter(request.GetRequestStream()))
{
    streamWriter.Write(verifyJSON);
    streamWriter.Flush();
}
```

4. Submit Request and Process response.

```
var httpResponse = (HttpWebResponse)request.GetResponse();
var streamReader = new StreamReader(httpResponse.GetResponseStream());
var result = streamReader.ReadToEnd();
```

## Code Sample 1 - using System.Net (Web Application):

```
string verifyJSON = "{\"LEGAL_NAME\":\"JOHN SMITH\",\"IPI_NO\":\"9999999\"}";
string apiKey = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
string link = "https://api.socan.ca/sandbox/MemberVerification" + "?apiKey=" + apiKey;

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

string token = "Bearer " + oAuthToken;

try
{
    HttpWebRequest request = (HttpWebRequest)WebRequest.Create(link);
    request.Method = "POST";
    request.ContentType = "application/json";
    request.Timeout = 30000;
    request.Headers.Add("Authorization", token);

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

    using (var streamWriter = new StreamWriter(request.GetRequestStream()))
    {
        streamWriter.Write(verifyJSON);
        streamWriter.Flush();
    }

    var httpResponse = (HttpWebResponse)request.GetResponse();
    var streamReader = new StreamReader(httpResponse.GetResponseStream());
    var result = streamReader.ReadToEnd();

    Session["VerifyMember"] = result;
}
catch (Exception exception)
{
    Session["Error"] = exception.Message;
}
```

## Code Sample 2 – RestSharp add-in (Console):

```
var response = "";  
  
string apiKey = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";  
string url = "https://api.socan.ca/sandbox/MemberVerification";  
string verifyJSON = "{\"LEGAL_NAME\":\"SMITH JOHN\",\"IPI_NO\":\"99999999\" }";  
string webMethod = "?apiKey=" + apiKey;  
  
string oauthToken = GetOAuthToken(); // Refer to OAuth document for more details  
  
string token = "Bearer " + oauthToken;  
  
var request = new RestClient(url);  
request.AddDefaultHeader("Authorization", token);  
  
var uploadRequest = new RestRequest(webMethod, Method.POST);  
  
try  
{  
    uploadRequest.RequestFormat = DataFormat.Json;  
    uploadRequest.AddParameter("application/json", verifyJSON, ParameterType.RequestBody);  
  
    var theResponse = request.Execute(uploadRequest);  
    response = theResponse.Content;  
}  
catch (Exception exception)  
{  
    Console.WriteLine("Error: {0}", ex);  
}
```