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API Code Samples
Status API Sample Code

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API Code Samples

Introduction

Status API

To submit a Status request, you must first have a submission code if you want the status of a specific request. The API Specification document at https://developer.socan.ca/documentation will provide further details on all the requirements to submit a status request.

Before you begin, you need to consider the following:

- The sample code 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 Status Check API request:

1. Setup the request to use the correct URL and ensure it is using SSL, TLS1.2, and a POST Method. You also must attach the API Key as a query string parameter.

```
string url = "https://api.socan.ca/sandbox/getStatus";
string apiKey = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
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 statusJSON =
"{\"API\":\"1001000\",\"MEMBER_NO\":\"9999999\",\"Type\":\"I\",\"CODE\":\"cw160083z99.xlsx\"}";

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

4. Submit Request and Process response.

```
var request = new RestClient(url);
var uploadRequest = new RestRequest(webMethod, Method.POST);
uploadRequest.AddParameter("application/json", statusJSON, ParameterType.RequestBody);

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


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Code Sample – suitable for embedding in a Web Application project:

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

// Use "Type":"L" for a list
// {"API":"1001000","MEMBER_NO":"9999999","Type":"L","CODE":"XXXXXXXXXX"}
string statusJSON =
"{\"API\":\"1001000\",\"MEMBER_NO\":\"9999999\",\"Type\":\"I\",\"CODE\":\"cw160083z99.xlsx\"}";

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

        var request = new RestClient(url);
        var uploadRequest = new RestRequest(webMethod, Method.POST);
        uploadRequest.AddParameter("application/json", statusJSON, ParameterType.RequestBody);

        var response = request.Execute(uploadRequest);

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


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