
Pre-Production Connectivity Testing: Market Information Management (MIM) Application Programming Interface (API) Using API Tool

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Preface

This document outlines the test cases to be executed as part of the pre-production connectivity testing phase for the applications that are impacted by the Market Renewal Program (MRP). The primary objective is to assess and validate the connectivity of the systems whose endpoints are changing in the environment.

Please ensure any anomalies, disruptions, or irregularities discovered while performing the pre-production connectivity test are reported via qTest or the Issue Log Template. This will contribute significantly to the overall improvement of the IESO tools.

Precondition:

- 1. API Credentials (username and password) to access**
<https://webservices.ieso.ca/mim2>

Notes:

- 1. The API tool used to demonstrate the test cases in this document is [Tosca's API Scan](#). Users may choose to test with this tool or any other web service tool of their choice.**

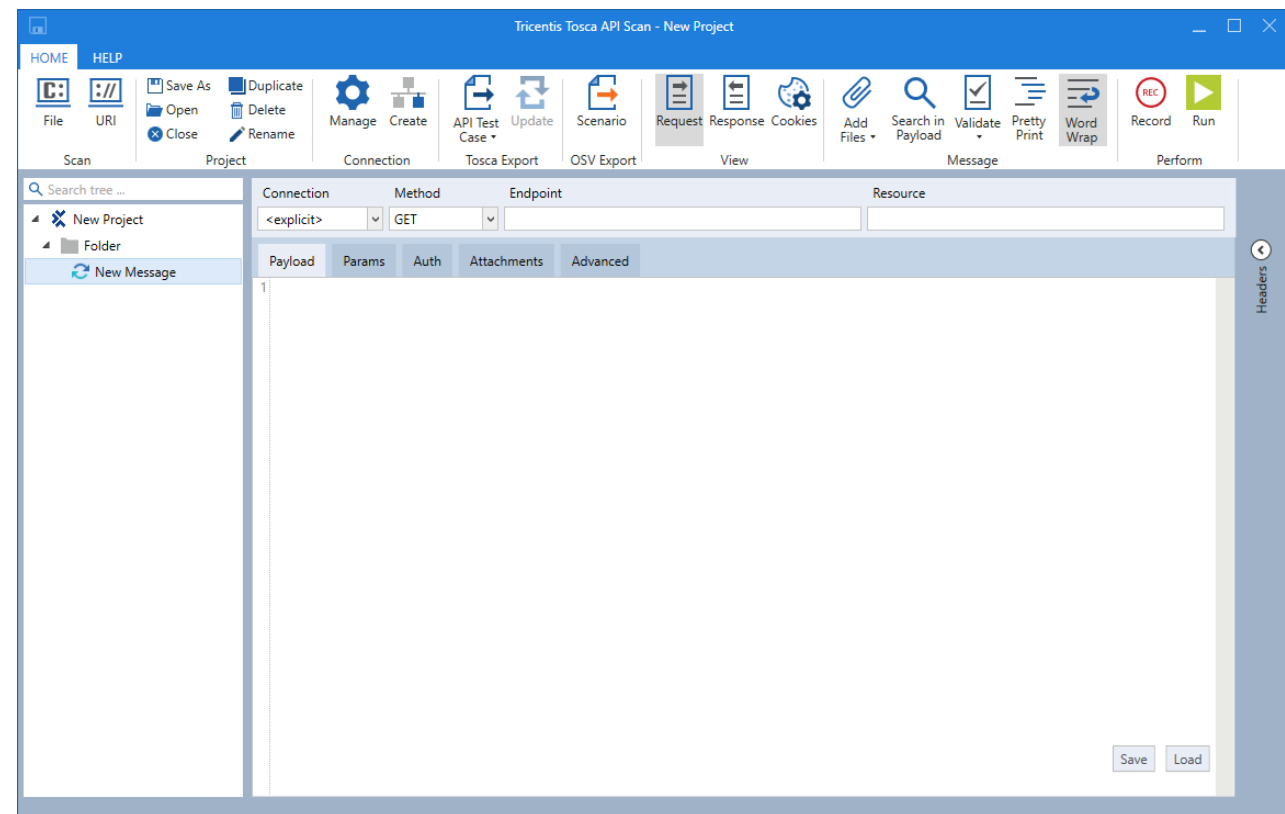
TC01 - Access MIM API Using API Tool

Step User Instruction

Expected Result

- 1 Open the API tool of your choice. In this example, instructions for testing are provided using **Tosca's API Scan** tool.

The API tool (**API Scan**) is opened.



Step User Instruction

Expected Result

- 2 Set the following configurations within the API Tool to connect:

Method: POST

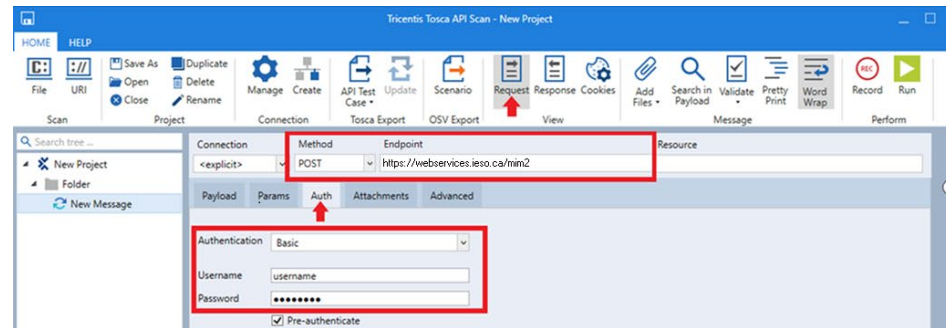
Endpoint:
<https://webservices.ieso.ca/min2>

Authentication: Basic

Username: [API username]

Password: [API password]

Within **Tosca's API Scan** tool, the configurations would look as follows:

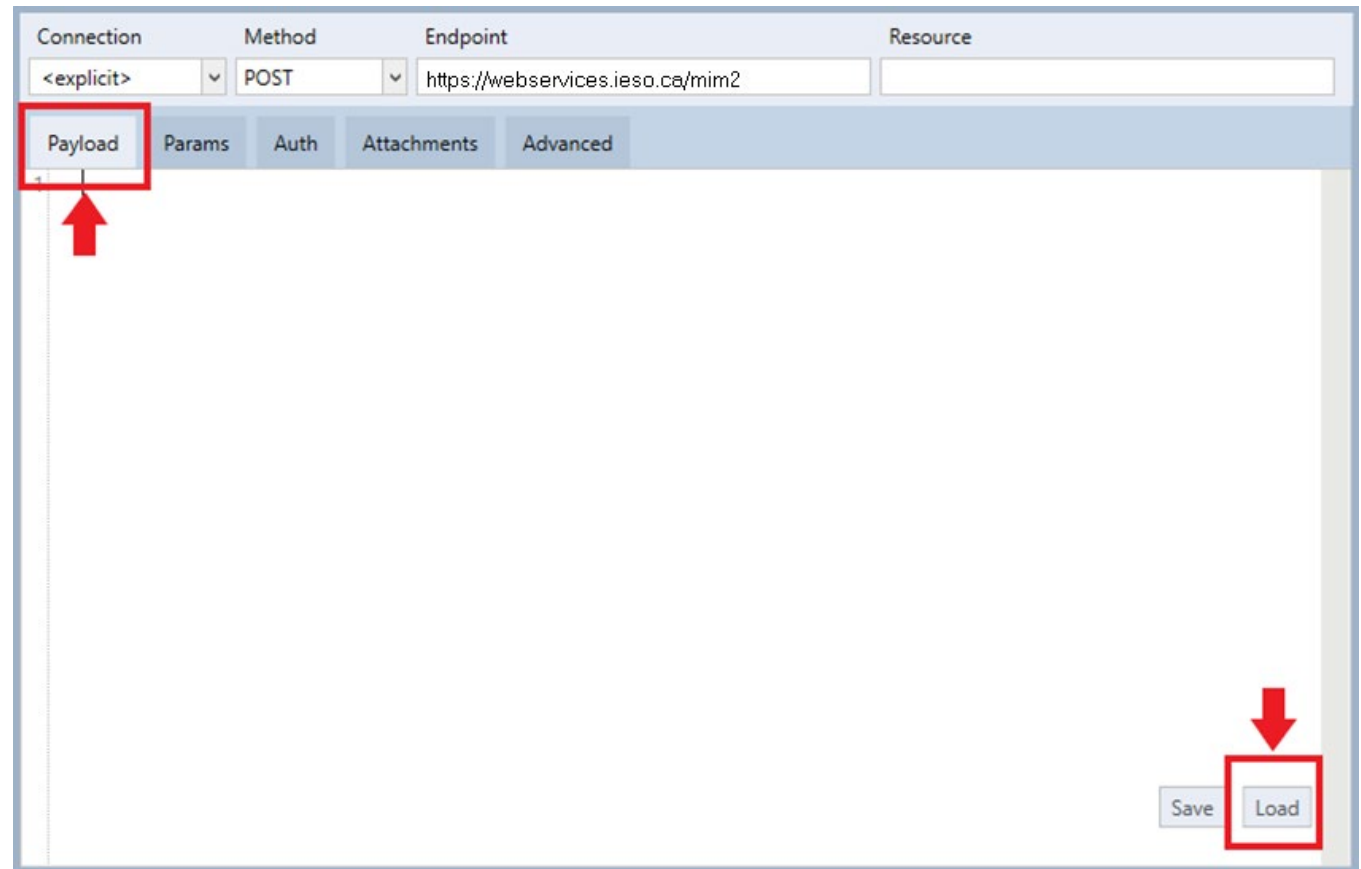


- 3 Download and then load the **HealthCheckQuery.xml** file into the Payload section.

Payload file available for download at:

<https://www.ieso.ca/en/Market-Renewal/Market-Participant-Readiness/Market-Participant-Testing>

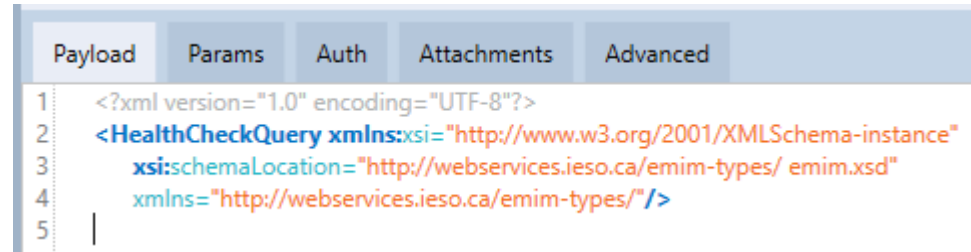
Click **Payload** in Tosca's API Scan tool and select **Load** at the bottom right. Load the **HealthCheckQuery.xml** file.



Once loaded, the payload should look similar to this:

Step User Instruction

Expected Result

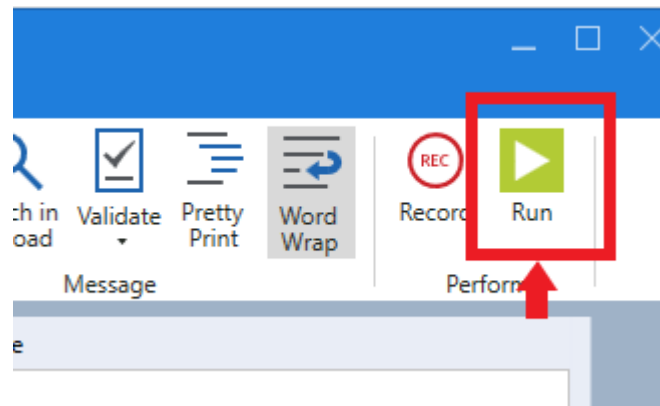


The screenshot shows the 'Payload' tab of an API tool. The XML content is as follows:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <HealthCheckQuery xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"
4   xmlns="http://webservices.ieso.ca/emim-types/" />
5 |
```

- 4 Run the health check request by clicking **Run** within the API tool.

The **Run** option is found in the top right corner of the tool.

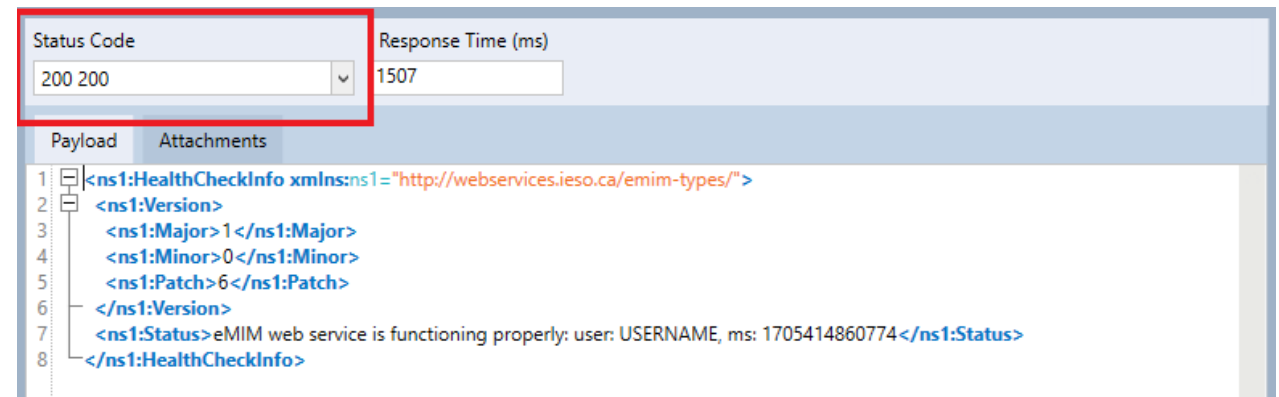


Step User Instruction

Expected Result

- 5 Confirm a successful response from the health check request was received to ensure a successful login.

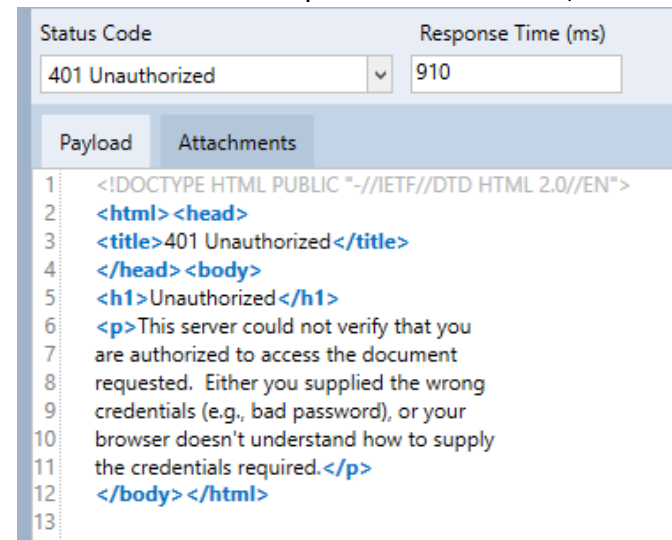
If the health check request is successful, confirm **Status Code** of **200 200** is received. The response payload file should look similar to this:



The screenshot shows the API tool interface. At the top, the 'Status Code' is displayed as '200 200' in a dropdown menu, which is highlighted with a red box. To its right, the 'Response Time (ms)' is shown as '1507'. Below these fields are tabs for 'Payload' and 'Attachments'. The 'Payload' tab is selected, showing an XML response. The XML structure is as follows:

```
1 <ns1:HealthCheckInfo xmlns:ns1="http://webservices.ieso.ca/emim-types/">
2   <ns1:Version>
3     <ns1:Major>1</ns1:Major>
4     <ns1:Minor>0</ns1:Minor>
5     <ns1:Patch>6</ns1:Patch>
6   </ns1:Version>
7   <ns1:Status>eMIM web service is functioning properly: user: USERNAME, ms: 1705414860774</ns1:Status>
8 </ns1:HealthCheckInfo>
```

If the health check request is unsuccessful, **Status Code** will show an **401 Unauthorized** error.



The screenshot shows the API tool interface for an unsuccessful request. The 'Status Code' is displayed as '401 Unauthorized' in a dropdown menu. To its right, the 'Response Time (ms)' is shown as '910'. Below these fields are tabs for 'Payload' and 'Attachments'. The 'Payload' tab is selected, showing an HTML error response. The HTML structure is as follows:

```
1 <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
2 <html><head>
3   <title>401 Unauthorized</title>
4 </head><body>
5   <h1>Unauthorized</h1>
6   <p>This server could not verify that you
7   are authorized to access the document
8   requested. Either you supplied the wrong
9   credentials (e.g., bad password), or your
10  browser doesn't understand how to supply
11  the credentials required.</p>
12 </body></html>
13
```




Additional Resources

Reference materials on the MIM API System are available here:

- MIM API: [XSD](#)
- MIM API: [WSDL](#)
- [MIM Sample Request and Response Files](#)

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