

Market Trials: Operating Reserve in the Market Information Management (MIM) tool

July 9, 2024

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Introduction

This document outlines the test cases to be executed using the Market Information Management (MIM) web services as part of Market Trials Phase 1. In this phase of testing, the primary objective is for Market Participants to confirm that certain functionality to the submission of Operating Reserve offers in the Market Information Management (MIM) tool are working as intended.

It is highly recommended that Market Participants start with the Standing Bid submission test cases and then execute test cases in the following order: Daily Dispatch Data (DDD), Real-Time Energy Market (RTEM), Forebay, Operating Reserve (OR) and Schedules.

Market Participants should ensure that they submit any defects via qTest or in the Market Trials Issue Log Template. This will contribute significantly to the overall improvement of the IESO tools. For more information on how submit defects via qTest, Market Participants can refer to the [Quick Take: Submission of Test Case Results and Defects in qTest](#) on the [Market Participant Testing](#) web page.

Preconditions:

1. User has an API account that has access to the MIM Sandbox application: <https://webservices-sandboxmrp.ieso.ca/emim>.
2. Dispatch data can be submitted using the following options: using the Market Participant's API tool and/or using the IESO's MWT Toolkit.
3. Connectivity to MIM using an API tool has been confirmed. Refer to the test case from Connectivity Testing, which is posted on the MRP webpage: <https://www.ieso.ca/Market-Renewal/Market-Participant-Readiness/Market-Participant-Testing>.
4. Market Participants can send web service requests to MIM using their own API tool of choice.
5. Connectivity to MIM using MWT Toolkit has been confirmed. Refer to the test case from Connectivity Testing, which is posted on the MRP webpage: <https://www.ieso.ca/Market-Renewal/Market-Participant-Readiness/Market-Participant-Testing>
6. For Query and Cancel requests there must be existing data available in the system for the selected resource.
7. Real Time Energy Market (RTEM) bid data for the corresponding participant, delivery date, resource name, and hour are present in the system.

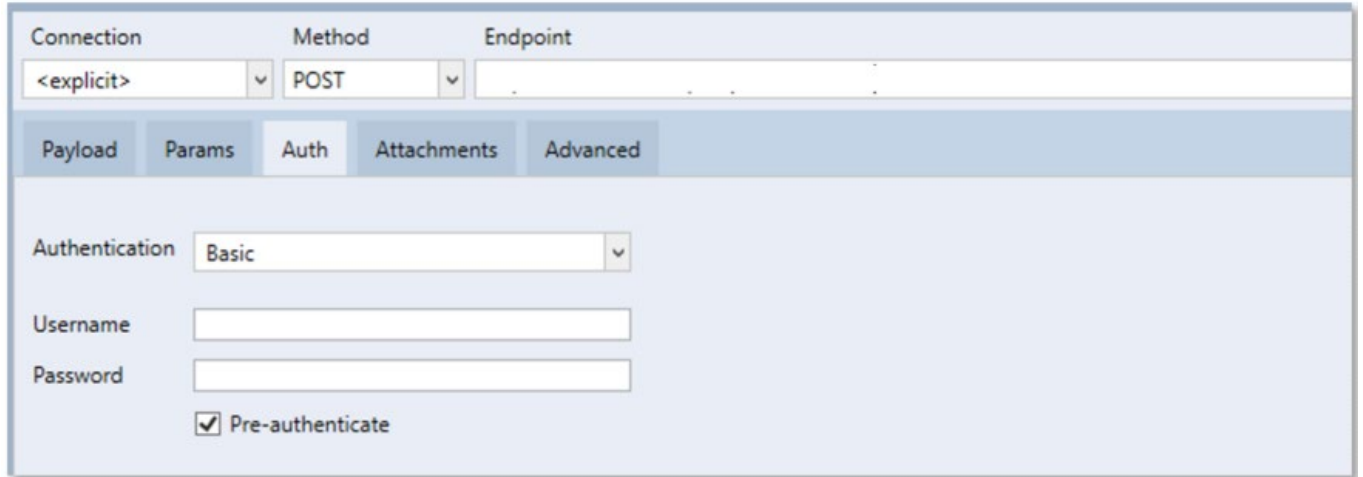
Notes:

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.

Common Functional Steps

This section lists out the common functional steps when submitting Operating Reserve offers in MIM. This section will be referenced in the following test cases.

CFS-01: Submitting a Bid

Step	User Instruction	Expected Result
1	<p>If using an API tool:</p> <p>Set the following configurations within the API Tool to connect:</p> <p>Method: POST</p> <p>Endpoint:</p> <p>https://webservices-sandboxmrp.ieso.ca/emim</p> <p>Authentication: Basic</p> <p>Username: [API username]</p> <p>Password: [API password]</p>	<p>Within Tosca's API Scan tool, the configurations would look as per attached image:</p> 

Step	User Instruction	Expected Result
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Enter the following details under "Params" section

Name: Content-Type

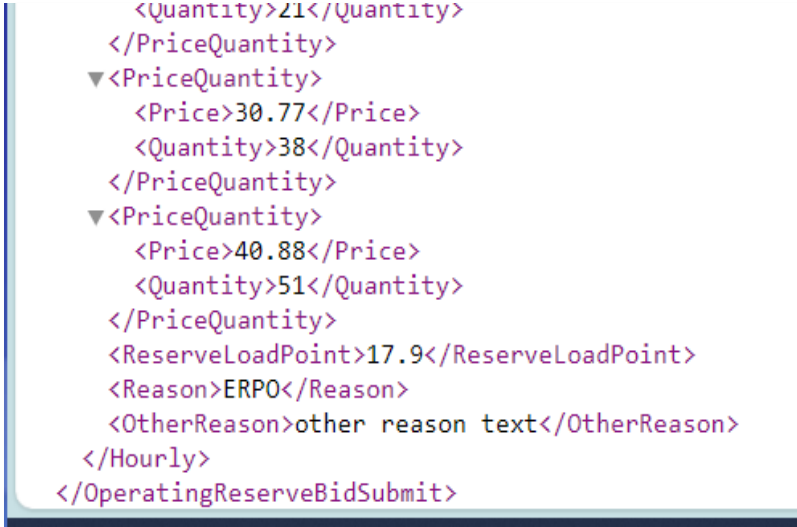
Value: text/xml

Type: Header

Payload	Params	Auth	Attachments	Advanced									
	<table border="1"> <thead> <tr> <th>Name</th> <th>Value</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Content-Type</td> <td>text/xml</td> <td>Header</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Value	Type	Content-Type	text/xml	Header						
Name	Value	Type											
Content-Type	text/xml	Header											

2	<p>If submitting a "Normal" type bid using either an API tool or MWT toolkit:</p> <p>Prepare a valid XML submission file for an OR Non-Standing (Normal) bid data for a particular resource.</p>	XML submission file has been prepared successfully.
---	--	---

```
<?xml version='1.0' encoding='UTF-8'>
<OperatingReserveBidSubmit xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd">
  <ActAsMarketParticipant>
    <Participant>PNAME</Participant>
    <User>UNAME</User>
  </ActAsMarketParticipant>
  <Date>
    <DeliveryDate>2023-01-01</DeliveryDate>
  </Date>
  <BidOffer>GENERATOR</BidOffer>
  <ResourceName>RNAME</ResourceName>
  <ReserveClass>105</ReserveClass>
  <Hourly>
    <Hour>3</Hour>
    <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources -->
    <TiePoint>TPNAME</TiePoint>
    <!-- Minimum of 2 and maximum of 5 PriceQuantity elements -->
    <PriceQuantity>
      <Price>10.00</Price>
      <Quantity>04</Quantity>
    </PriceQuantity>
    <PriceQuantity>
      <Price>10.00</Price>
      <Quantity>23</Quantity>
    </PriceQuantity>
    <ReserveLoadPoint>12.1</ReserveLoadPoint>
    <Reason>FD</Reason>
    <OtherReason>other reason text</OtherReason>
  </Hourly>
  <Hourly>
    <Hour>7</Hour>
    <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources -->
    <TiePoint>TPNAME</TiePoint>
    <PriceQuantity>
      <Price>20.99</Price>
      <Quantity>04</Quantity>
    </PriceQuantity>
    <PriceQuantity>
      <Price>20.99</Price>
      <Quantity>21</Quantity>
    </PriceQuantity>
  </Hourly>
</OperatingReserveBidSubmit>
</xml>
```

Step	User Instruction	Expected Result
		 <pre> <Quantity>21</Quantity> </PriceQuantity> ▼<PriceQuantity> <Price>30.77</Price> <Quantity>38</Quantity> </PriceQuantity> ▼<PriceQuantity> <Price>40.88</Price> <Quantity>51</Quantity> </PriceQuantity> <ReserveLoadPoint>17.9</ReserveLoadPoint> <Reason>ERPO</Reason> <OtherReason>other reason text</OtherReason> </Hourly> </OperatingReserveBidSubmit> </pre>
3	<p>If submitting a “Standing” type bid using either an API tool or IESO’s MWT toolkit:</p> <p>Prepare a valid XML submission file for an OR Standing bid data for a particular resource.</p>	XML submission file has been prepared successfully.

Step	User Instruction	Expected Result
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```

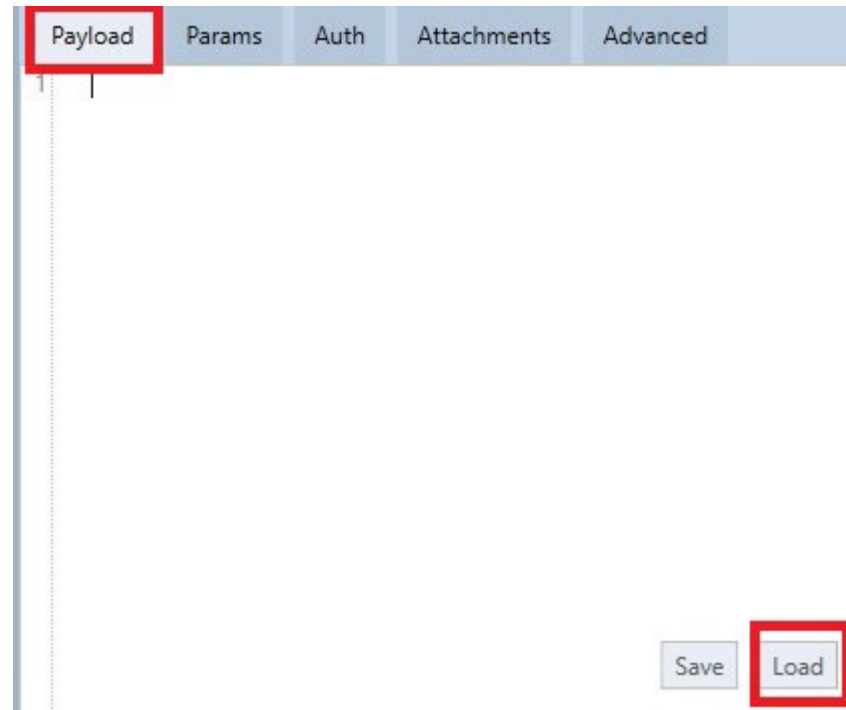
<?xml version="1.0" encoding="UTF-8"?>
<OperatingReserveBidSubmit xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://webservices.ieso.ca/emin-types/ emin.xsd"
    xmlns="http://webservices.ieso.ca/emin-types">
    <ActAsMarketParticipant>
        <Participant>PNAME</Participant>
        <User>UNAME</User>
    </ActAsMarketParticipant>
    <Date>
        <Standing>
            <DayOfWeek>WED</DayOfWeek>
            <ExpiryDate>2030-01-01</ExpiryDate>
        </Standing>
    </Date>
    <BidOffer>GENERATOR</BidOffer>
    <ResourceName>RNAME</ResourceName>
    <ReserveClass>10S</ReserveClass>
    <Hourly>
        <Hour>1</Hour>
        <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources -->
        <TiePoint>TPNAME</TiePoint>
        <!-- Minimum of 2 and maximum of 5 PriceQuantity elements -->
        <PriceQuantity>
            <Price>10.00</Price>
            <Quantity>0</Quantity>
        </PriceQuantity>
        <PriceQuantity>
            <Price>10.00</Price>
            <Quantity>23</Quantity>
        </PriceQuantity>
        <ReserveLoadPoint>12.1</ReserveLoadPoint>
        <Reason>FD</Reason>
        <OtherReason>other reason text</OtherReason>
    </Hourly>
    <Hourly>
        <Hour>2</Hour>
        <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources -->
        <TiePoint>TPNAME</TiePoint>
        <PriceQuantity>
            <Price>20.99</Price>
            <Quantity>0</Quantity>
        </PriceQuantity>
        <PriceQuantity>
            <Price>20.99</Price>
            <Quantity>21</Quantity>
        </PriceQuantity>
        <PriceQuantity>
            <Price>30.77</Price>
            <Quantity>38</Quantity>
        </PriceQuantity>
        <PriceQuantity>
            <Price>40.88</Price>
            <Quantity>51</Quantity>
        </PriceQuantity>
        <ReserveLoadPoint>17.9</ReserveLoadPoint>
        <Reason>ERPO</Reason>
        <OtherReason>other reason text</OtherReason>
    </Hourly>
</OperatingReserveBidSubmit>

```

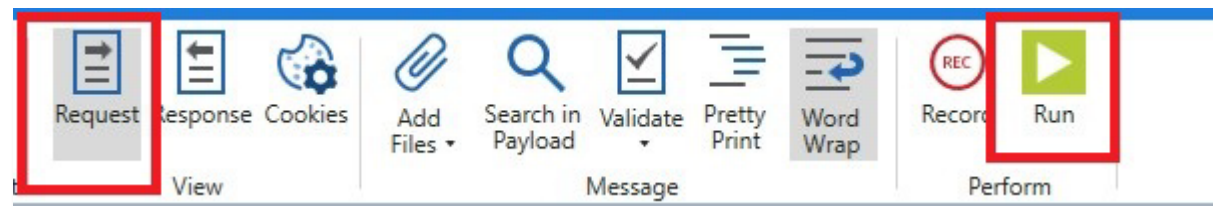

Step	User Instruction	Expected Result
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4 Submit the XML file that has been prepared using MWT toolkit or through the API tool.

If using an API tool, load the XML file into the payload section.



Run the request by clicking Run within the API tool.



Step	User Instruction	Expected Result								
		<p>If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.</p> <div><pre>D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_SUBMIT.xml INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml INFO: Finished processing request: opres/OPRES_SUBMIT.xml INFO: Finished client.</pre></div> <div><p>DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres</p><table><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr><tr><td>OPRES_SUBMIT-out.xml</td><td>2024-07-05 3:17 PM</td><td>XML File</td><td>1 KB</td></tr></table></div>	Name	Date modified	Type	Size	OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB
Name	Date modified	Type	Size							
OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB							
5	Verify that the response file (output) contains a successful message.	<p>Output file should contain text that indicates the Operating Reserve submission was successfully processed.</p> <p>For API tool:</p>								

Step	User Instruction	Expected Result
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Status Code	Response Time (ms)
200 200	411

Payload	Attachments
<pre> 1 <ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> 2 <ns1:SubmissionTime>[redacted]</ns1:SubmissionTime> 3 <ns1:TransactionId>[redacted]</ns1:TransactionId> 4 <ns1:Message> 5 <ns1:Severity>[redacted]</ns1:Severity> 6 <ns1:Code>[redacted]SUBMIT-SUCCESS</ns1:Code> 7 <ns1:Description>Successfully processed the OPRES submission.</ns1:Description> 8 </ns1:Message> 9 </ns1:BidProcessingStatus> </pre>	

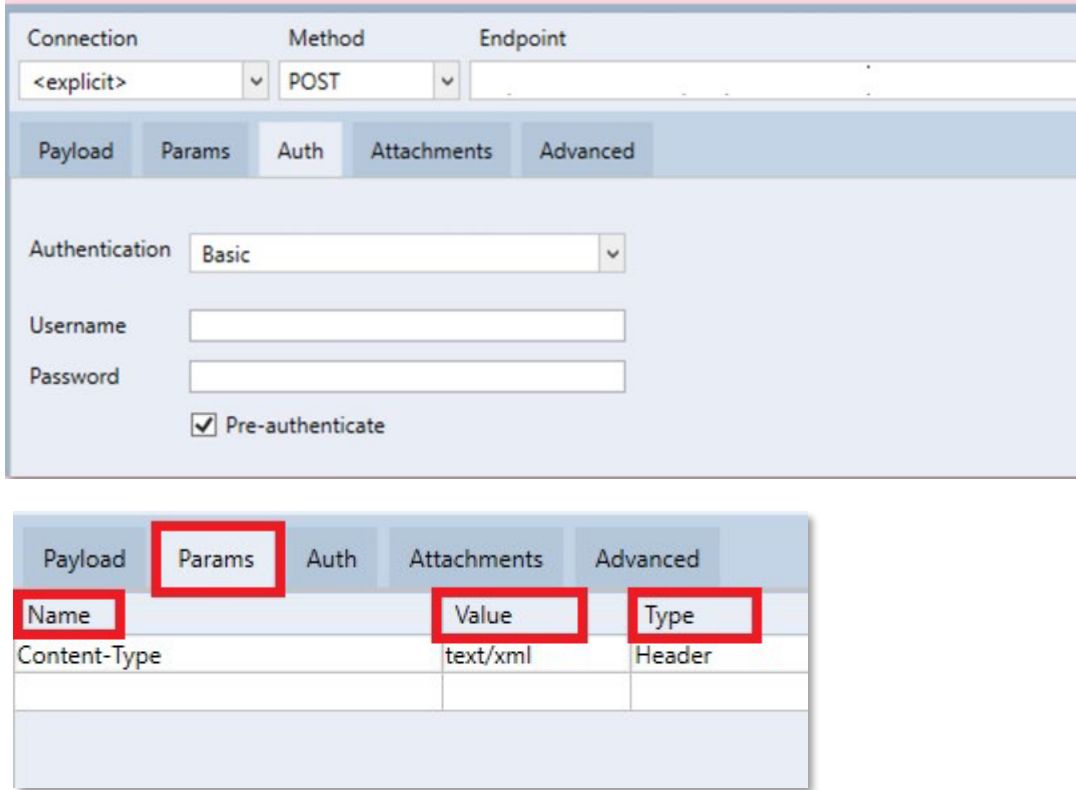
For MWT tool:

```

▼<ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  <ns1:SubmissionTime>[redacted]</ns1:SubmissionTime>
  <ns1:TransactionId>[redacted]</ns1:TransactionId>
  ▼<ns1:Message>
    <ns1:Severity>INFO</ns1:Severity>
    <ns1:Code>PMPROC_I_SUBMIT-SUCCESS</ns1:Code>
    <ns1:Description>Successfully processed the OPRES submission.</ns1:Description>
  </ns1:Message>
</ns1:BidProcessingStatus>

```

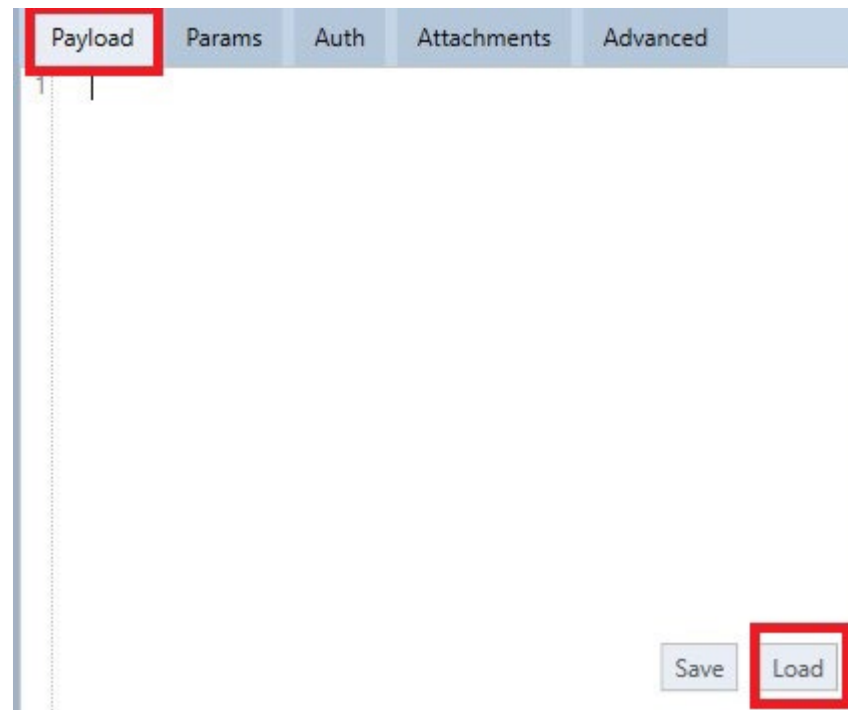
CFS-02: Query Bid data

Step	User Instruction	Expected Result
1	<p>If using an API Tool:</p> <p>Set the following configurations within the API Tool to connect:</p> <p>Method: POST</p> <p>Endpoint: https://webservices-sandboxmrp.ieso.ca/e/mim</p> <p>Authentication: Basic</p> <p>Username: [API username]</p> <p>Password: [API password]</p> <p>Enter the following details under "Params" section</p> <p>Name: Content-Type</p> <p>Value: text/xml</p> <p>Type: Header</p>	<p>Within Tosca's API Scan tool, the configurations would look as per attached image</p> 

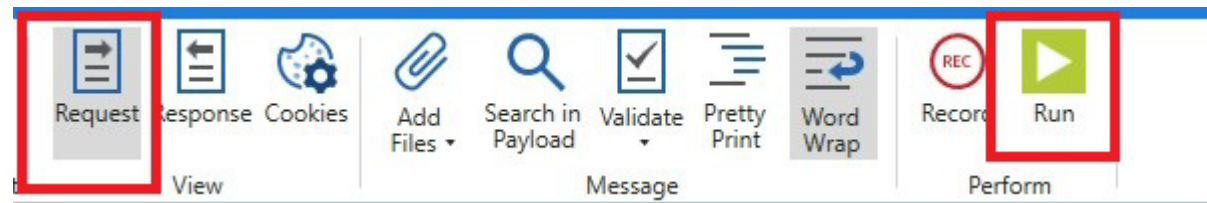
Step	User Instruction	Expected Result
2	<p>If submitting a “Normal” bid type using either an API tool or MWT toolkit:</p> <p>Prepare an XML query file.</p>	<p>XML submission file should be prepared successfully</p> <pre data-bbox="653 386 2003 748"> <?xml version="1.0" encoding="UTF-8" standalone="yes" ?> <OperatingReserveBidQuery xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hour elements can be specified --> <Hour>3</Hour> <Hour>5</Hour> </OperatingReserveBidQuery> </pre>

Step	User Instruction	Expected Result
3	<p>If submitting a "Standing" bid type using either an API tool or MWT toolkit: Prepare an XML query file.</p>	<pre> <?xml version="1.0" encoding="UTF-8"?> <OperatingReserveBidQuery xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd" xmlns="http://webservices.ieso.ca/emim-types/"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <Standing> <DayOfWeek>WED</DayOfWeek> <ExpiryDate>2030-01-01</ExpiryDate> </Standing> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hour elements can be specified --> <Hour>1</Hour> <Hour>5</Hour> </OperatingReserveBidQuery> </pre>
4	<p>Submit the XML file that has been prepared using MWT toolkit or through the API tool.</p>	<p>If using an API tool, load the XML file into the payload section.</p>

Step	User Instruction	Expected Result
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Run the request by clicking Run within the API tool.



Step	User Instruction	Expected Result								
		<p>If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.</p> <div><pre>D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_QUERY.xml INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_QUERY-out.xml INFO: Finished processing request: opres/OPRES_QUERY.xml INFO: Finished client.</pre></div> <div><p>DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres</p><table><thead><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr></thead><tbody><tr><td>OPRES_QUERY-out.xml</td><td>2024-07-05 3:22 PM</td><td>XML File</td><td>2 KB</td></tr></tbody></table></div>	Name	Date modified	Type	Size	OPRES_QUERY-out.xml	2024-07-05 3:22 PM	XML File	2 KB
Name	Date modified	Type	Size							
OPRES_QUERY-out.xml	2024-07-05 3:22 PM	XML File	2 KB							
5	Verify that the response file contains the Operating Reserve data for the selected resource.	<p>Output file contains the queried data for the resource.</p> <p>For API Tool:</p>								

Status Code

Response Time (ms)

200 200

411

Payload

Attachments

1

2

3

4

5

6

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<ns1:OperatingReserveBidSet xmlns:ns1="http://webservices.ieso.ca/emim-types/">

<ns1:OperatingReserveBidSubmit>

<ns1:ActAsMarketParticipant>

<ns1:Participant>

<ns1:User>

</ns1:ActAsMarketParticipant>

<ns1:Date>

<ns1:DeliveryDate>

</ns1:Date>

<ns1:BidOffer>

<ns1:ResourceName>

<ns1:ReserveClass>

<ns1:Hourly>

<ns1:Hour>

<ns1:PriceQuantity>

<ns1:Price>

<ns1:Quantity>

</ns1:PriceQuantity>

<ns1:PriceQuantity>

<ns1:Price>

<ns1:Quantity>

</ns1:PriceQuantity>

<ns1:PriceQuantity>

<ns1:Price>

<ns1:Quantity>

</ns1:PriceQuantity>

<ns1:ReserveLoadPoint>

<ns1:Reason>

<ns1:OtherReason>

</ns1:Hourly>

<ns1:Hourly>

<ns1:Hour>

<ns1:PriceQuantity>

<ns1:Price>

<ns1:Quantity>

</ns1:PriceQuantity>

<ns1:PriceQuantity>

<ns1:Price>

<ns1:Quantity>

</ns1:PriceQuantity>

<ns1:PriceQuantity>

<ns1:Price>

<ns1:Quantity>

</ns1:PriceQuantity>

<ns1:ReserveLoadPoint>

<ns1:Reason>

<ns1:OtherReason>

</ns1:Hourly>

Step	User Instruction	Expected Result
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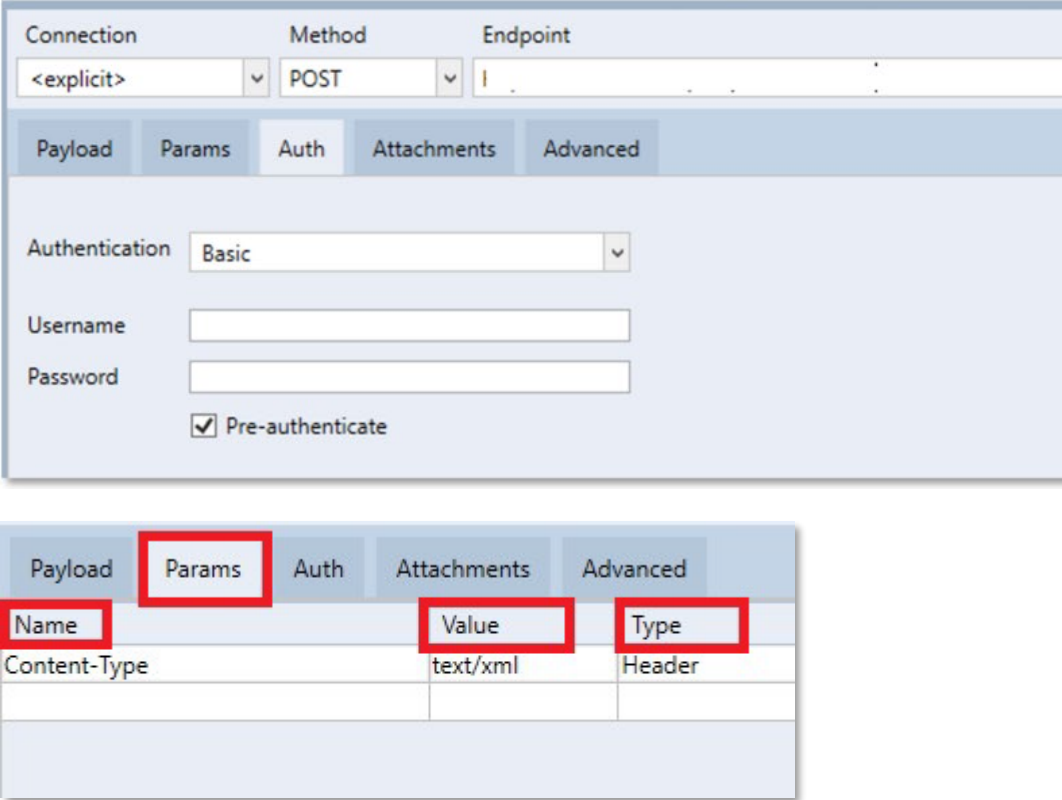
For MWT Tool:

```

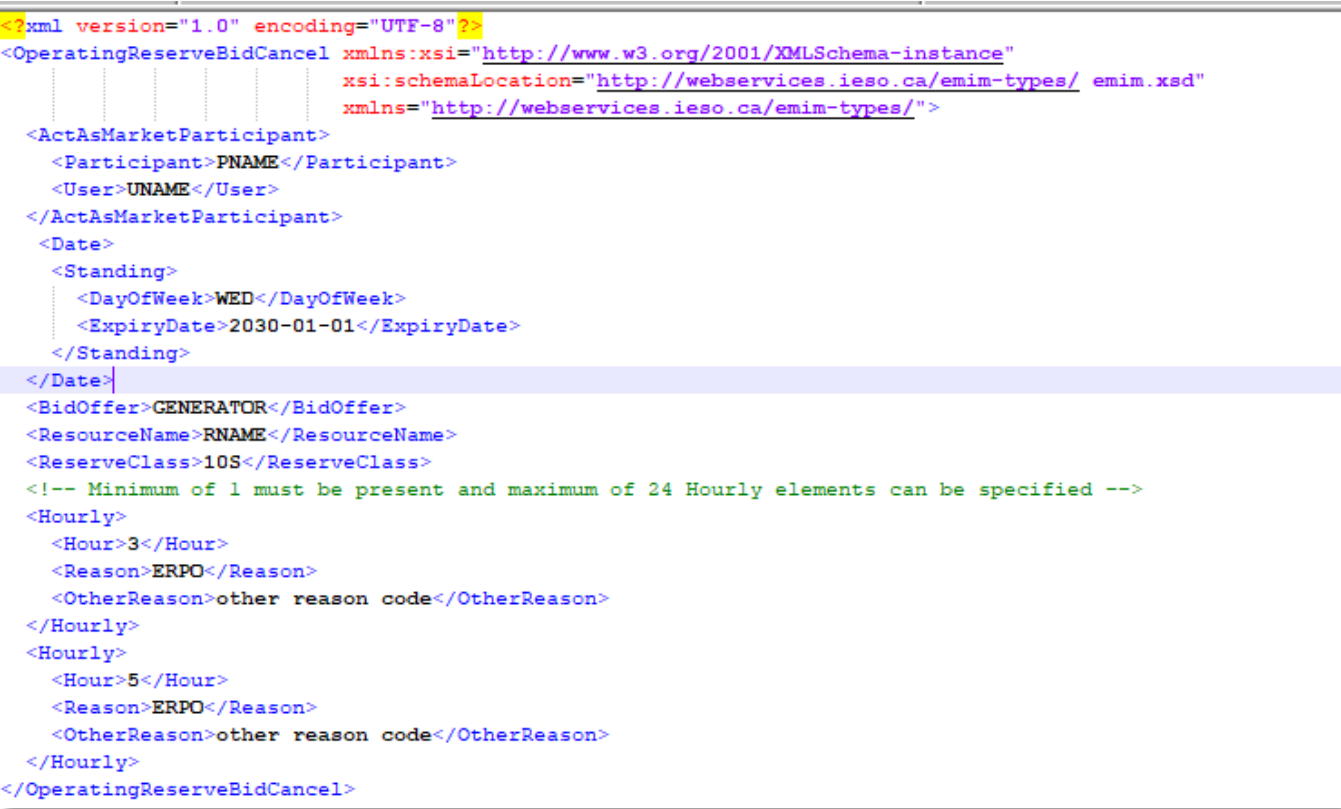
▼<ns1:OperatingReserveBidSet xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  ▼<ns1:OperatingReserveBidSubmit>
    ▼<ns1:ActAsMarketParticipant>
      <ns1:Participant>[REDACTED]/ns1:Participant>
      <ns1:User>[REDACTED]/ns1:User>
    </ns1:ActAsMarketParticipant>
    ▼<ns1:Date>
      <ns1:DeliveryDate>2015-11-24T05:00</ns1:DeliveryDate>
    </ns1:Date>
    <ns1:BidOffer>INJECTION</ns1:BidOffer>
    <ns1:ResourceName>[REDACTED]</ns1:ResourceName>
    <ns1:ReserveClass>10N</ns1:ReserveClass>
    ▼<ns1:Hourly>
      <ns1:Hour>8</ns1:Hour>
      <ns1:TiePoint>[REDACTED]/ns1:TiePoint>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>0</ns1:Quantity>
      </ns1:PriceQuantity>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>100</ns1:Quantity>
      </ns1:PriceQuantity>
      <ns1:ReserveLoadPoint>0</ns1:ReserveLoadPoint>
    </ns1:Hourly>
    ▼<ns1:Hourly>
      <ns1:Hour>9</ns1:Hour>
      <ns1:TiePoint>[REDACTED]/ns1:TiePoint>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>0</ns1:Quantity>
      </ns1:PriceQuantity>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>100</ns1:Quantity>
      </ns1:PriceQuantity>
      <ns1:ReserveLoadPoint>0</ns1:ReserveLoadPoint>
    </ns1:Hourly>
  </ns1:OperatingReserveBidSubmit>
</ns1:OperatingReserveBidSet>

```

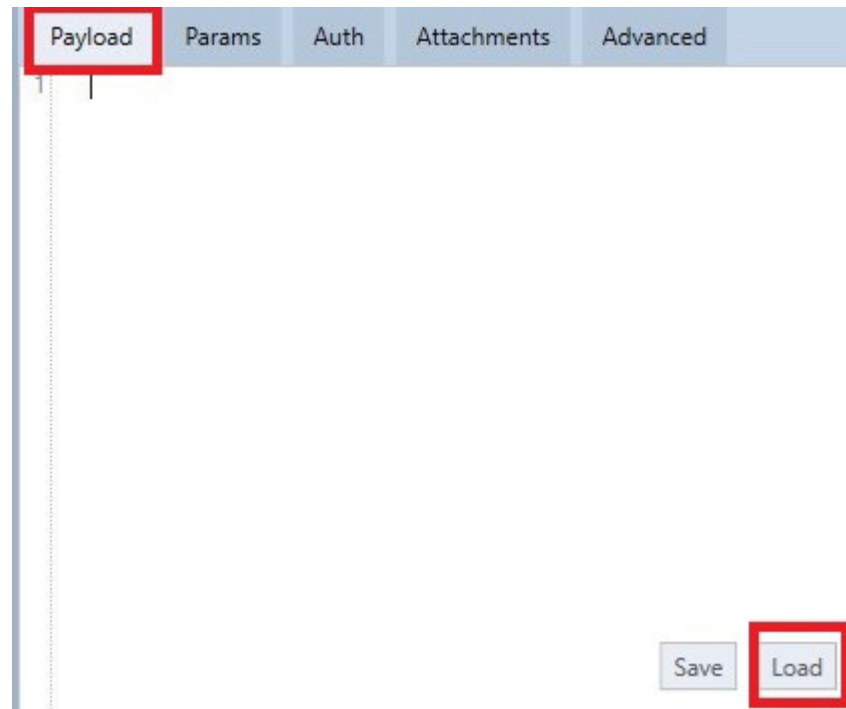
CFS-03: Cancel a Bid

Step	User Instruction	Expected Result
1	<p>If using an API Tool:</p> <p>Set the following configurations within the API Tool to connect:</p> <p>Method: POST</p> <p>Endpoint: https://webservices-sandboxmrp.ieso.ca/emim</p> <p>Authentication: Basic</p> <p>Username: [API username]</p> <p>Password: [API password]</p> <p>Enter the following details under "Params" section</p> <p>Name: Content-Type</p> <p>Value: text/xml</p> <p>Type: Header</p>	<p>Within Tosca's API Scan tool, the configurations would look as per attached image</p> 
2	<p>If submitting for a "Normal" bid type</p>	<p>XML submission file should be prepared successfully</p>

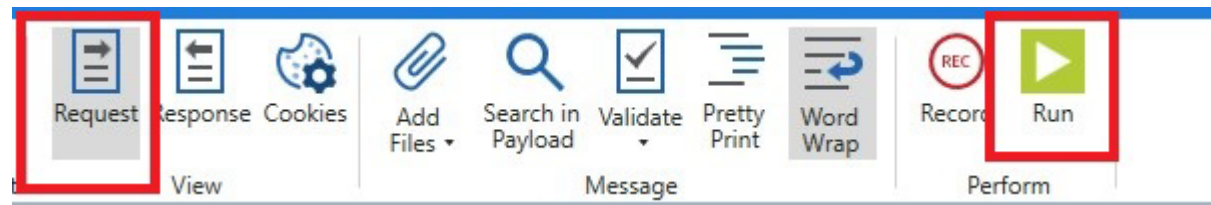
Step	User Instruction	Expected Result
	<p>using either an API tool or MWT toolkit:</p> <p>Prepare an XML cancellation file to cancel Operating Reserve bid data.</p>	<pre> ▼<OperatingReserveBidCancel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> ▼<ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> ▼<Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hourly elements can be specified --> ▼<Hourly> <Hour>3</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> ▼<Hourly> <Hour>5</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> </OperatingReserveBidCancel> </pre>

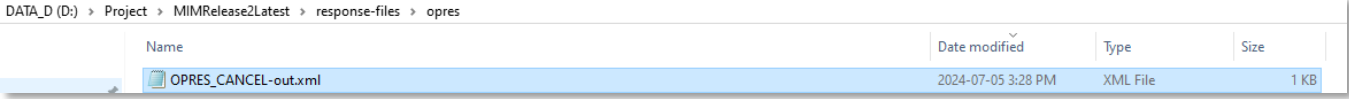
Step	User Instruction	Expected Result
3	<p>If submitting for a “Standing” bid type using either an API tool or MWT toolkit:</p> <p>Prepare an XML cancellation file to cancel Operating Reserve bid data.</p>	 <pre> <?xml version="1.0" encoding="UTF-8"?> <OperatingReserveBidCancel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd" xmlns="http://webservices.ieso.ca/emim-types/"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <Standing> <DayOfWeek>WED</DayOfWeek> <ExpiryDate>2030-01-01</ExpiryDate> </Standing> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hourly elements can be specified --> <Hourly> <Hour>3</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> <Hourly> <Hour>5</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> </OperatingReserveBidCancel> </pre>
4	<p>Submit the XML file that has been prepared using MWT toolkit or through the API tool.</p>	<p>If using an API tool, load the XML file into the payload section.</p>

Step	User Instruction	Expected Result
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Run the request by clicking Run within the API tool.



Step	User Instruction	Expected Result
		<p>If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.</p> <pre>D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_CANCEL.xml INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_CANCEL-out.xml INFO: Finished processing request: opres/OPRES_CANCEL.xml INFO: Finished client.</pre> 
5	Verify that the response file (output) contains the queried data.	<p>The output file contains the queried data for the selected resource.</p> <p>For API Tool:</p>

Step	User Instruction	Expected Result
------	------------------	-----------------

Status Code	Response Time (ms)
200 200	423

Payload	Attachments
<pre> 1 <ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> 2 <ns1:SubmissionTime><input type="text" value="2016-05-11T16:22:21.600-05:00" /></ns1:SubmissionTime> 3 <ns1:TransactionId><input type="text" value="PMPROC_I_20160511162221600" /></ns1:TransactionId> 4 <ns1:Message> 5 <ns1:Severity><input type="text" value="INFO" /></ns1:Severity> 6 <ns1:Code><input type="text" value="PMPROC_I_CANCEL-SUCCESS" /></ns1:Code> 7 <ns1:Description>Successfully processed the OPRES cancellation.</ns1:Description> 8 </ns1:Message> 9 </ns1:BidProcessingStatus> </pre>	

For MWT Tool:

```

▼ <ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  <ns1:SubmissionTime>2016-05-11T16:22:21.600-05:00</ns1:SubmissionTime>
  <ns1:TransactionId>PMPROC_I_20160511162221600</ns1:TransactionId>
  ▼ <ns1:Message>
    <ns1:Severity>INFO</ns1:Severity>
    <ns1:Code>PMPROC_I_CANCEL-SUCCESS</ns1:Code>
    <ns1:Description>Successfully processed the OPRES cancellation.</ns1:Description>
  </ns1:Message>
</ns1:BidProcessingStatus>

```


Test Cases

TC01: Verify that Operating Reserve (OR) Non-Standing (Normal) bid data can be successfully submitted for a resource

Step	User Instruction	Expected Result
1	Execute Step 2 from CFS-01 from the Common Functional Steps section.	
2	Execute Step 4 from CFS-01 from the Common Functional Steps section.	
3	Execute Step 5 from CFS-01 from the Common Functional Steps section.	

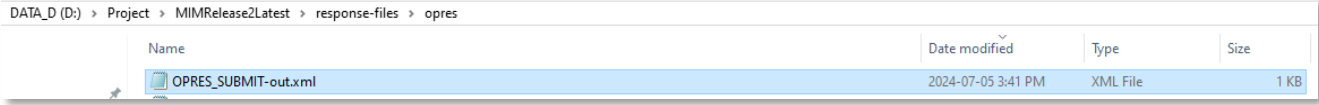
TC02: Verify that Operating Reserve Standing bid data can be successfully submitted for a resource

Step	User Instruction	Expected Result
1	Execute Step 3 from CFS-01 from the	

Step	User Instruction	Expected Result
	Common Functional Steps section.	
2	Execute Step 4 from CFS-01 from the Common Functional Steps section.	
3	Execute Step 5 from CFS-01 from the Common Functional Steps section.	

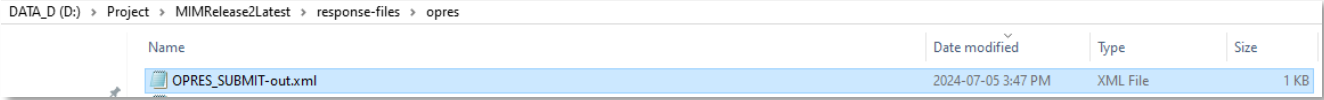
TC03: Verify that an error response message is returned when OR data is submitted with non-unique hours (i.e., duplicate hours in XML file)

Step	User Instruction	Expected Result
1	Prepare a valid XML submission file for Operating Reserve. The request file should include duplicate hours in the Hour data field.	<p>XML submission file has been prepared successfully.</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <OperatingReserveBidSubmit xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd" xmlns="http://webservices.ieso.ca/emim-types/"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <Hourly> <Hour>1</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <!-- Minimum of 2 and maximum of 5 PriceQuantity elements --> <PriceQuantity> <Price>10.00</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>10.00</Price> <Quantity>23</Quantity> </PriceQuantity> <ReserveLoadPoint>12.1</ReserveLoadPoint> <Reason>FD</Reason> <OtherReason>other reason text</OtherReason> </Hourly> <Hourly> <Hour>1</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <PriceQuantity> <Price>20.99</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>20.99</Price> <Quantity>21</Quantity> </PriceQuantity> <PriceQuantity> <Price>30.77</Price> <Quantity>38</Quantity> </PriceQuantity> <PriceQuantity> <Price>40.88</Price> <Quantity>51</Quantity> </PriceQuantity> <ReserveLoadPoint>17.9</ReserveLoadPoint> <Reason>ERPO</Reason> <OtherReason>other reason text</OtherReason> </Hourly> <ResourceName>Rest</ResourceName> </OperatingReserveBidSubmit> </pre>

Step	User Instruction	Expected Result
2	<p>Submit the XML file, using MWT Toolkit or submit the XML file to API tool of choice, in the RT initial window.</p> <p>Note: Market Participants may use MWT Toolkit or an API tool of their choice for MIM data submissions. Refer to preconditions.</p>	<p>Submission is unsuccessful, and response or output file has been generated successfully.</p> <pre> D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_SUBMIT.xml ERROR: unknown, see output file for details INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml INFO: Finished processing request: opres/OPRES_SUBMIT.xml INFO: Finished client. </pre> 
3	<p>Verify that the response file contains an error or failure message.</p>	<p>Output file contains the error message: "Hours must be unique".</p> <pre> <?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> <ns1:SubmissionTime>2024-07-05T14:41:55.719-05:00</ns1:SubmissionTime> <ns1:TransactionId>1</ns1:TransactionId> <ns1:Message> <ns1:Severity>ERROR</ns1:Severity> <ns1:Code>PMVAL_E_HOURS-DUPLICATE</ns1:Code> <ns1:Description>Hours must be unique.</ns1:Description> </ns1:Message> </ns1:BidProcessingStatus> </pre>

TC04: Verify that an error is returned when OR data is submitted with an invalid Bid Offer type for a resource

Step	User Instruction	Expected Result
1	<p>Prepare an XML submission file for Operating Reserve data. This file should contain an invalid Bid/Offer Type for a specific resource.</p>	<p>XML submission file has been prepared successfully.</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <OperatingReserveBidSubmit xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd" xmlns="http://webservices.ieso.ca/emim-types/"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer><InvalidBidOffer></BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <Hourly> <Hour>3</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <!-- Minimum of 2 and maximum of 5 PriceQuantity elements --> <PriceQuantity> <Price>10.00</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>10.00</Price> <Quantity>23</Quantity> </PriceQuantity> <ReserveLoadPoint>12.1</ReserveLoadPoint> <Reason>FD</Reason> <OtherReason>other reason text</OtherReason> </Hourly> <Hourly> <Hour>7</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <PriceQuantity> <Price>20.99</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>20.99</Price> <Quantity>21</Quantity> </PriceQuantity> <PriceQuantity> <Price>30.77</Price> <Quantity>38</Quantity> </PriceQuantity> <PriceQuantity> <Price>40.88</Price> <Quantity>51</Quantity> </PriceQuantity> <ReserveLoadPoint>17.9</ReserveLoadPoint> <Reason>ERPO</Reason> <OtherReason>other reason text</OtherReason> </Hourly> <ResourceName>Rest</ResourceName> </OperatingReserveBidSubmit> </pre>

Step	User Instruction	Expected Result
2	<p>Submit the XML file that has been prepared for RTEM data to MIM using MWT Toolkit or submit the XML file through API tool during the RT initial window.</p> <p>Note: Market Participants may use MWT Toolkit or their own API tool of choice to submit data to MIM. Refer to the list of preconditions.</p>	<p>Submission is unsuccessful, and response or output file has been generated successfully.</p> <pre> D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_SUBMIT.xml ERROR: unknown, see output file for details INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml INFO: Finished processing request: opres/OPRES_SUBMIT.xml INFO: Finished client. </pre> 
3	<p>Verify that the response file contains an error or failure message.</p>	<p>Output file contains the error message: "<Invalid Bid Offer entered> is not valid for the Resource of Resource Type:<Resource Type>"</p> <pre> <?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> <ns1:SubmissionTime>2024-07-05T14:54:55.813-05:00</ns1:SubmissionTime> <ns1:TransactionId> </ns1:TransactionId> <ns1:Message> <ns1:Severity>ERROR</ns1:Severity> <ns1:Code>PMVAL_E_BID-TYPE-INVALID</ns1:Code> <ns1:Description>Bid Type:DISPLOAD is not valid for the Resource of Resource Type:HYDRO_CASCADE</ns1:Description> </ns1:Message> </ns1:BidProcessingStatus> </pre>

TC05: Verify that an error is returned for an Operating Reserve data submission where the delivery hours are in 'RT_CLOSE' state in the RT window

Step	User Instruction	Expected Result
1	<p>Prepare an XML submission file for Operating Reserve data. The file should contain delivery hours that are in 'RT_CLOSE' state in the RT window.</p>	<p>XML submission file has been prepared successfully.</p> <pre> <?xml version="1.0" encoding="UTF-8" standalone="yes" ?> <OperatingReserveBidSubmit xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>105</ReserveClass> <Hourly> <Hour>3</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <!-- Minimum of 2 and maximum of 5 PriceQuantity elements --> <PriceQuantity> <Price>10.00</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>10.00</Price> <Quantity>23</Quantity> </PriceQuantity> <ReserveLoadPoint>12.1</ReserveLoadPoint> <Reason>FD</Reason> <OtherReason>other reason text</OtherReason> </Hourly> <Hourly> <Hour>7</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <PriceQuantity> <Price>20.99</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>20.99</Price> <Quantity>21</Quantity> </PriceQuantity> </Hourly> </OperatingReserveBidSubmit> </pre>

Step	User Instruction	Expected Result								
		<pre><Quantity>21</Quantity> </PriceQuantity> ▼<PriceQuantity> <Price>30.77</Price> <Quantity>38</Quantity> </PriceQuantity> ▼<PriceQuantity> <Price>40.88</Price> <Quantity>51</Quantity> </PriceQuantity> <ReserveLoadPoint>17.9</ReserveLoadPoint> <Reason>ERPO</Reason> <OtherReason>other reason text</OtherReason> </Hourly> </OperatingReserveBidSubmit></pre>								
2	<p>Submit the XML file, using MWT Toolkit or submit the XML file to API tool of choice, when the submitted hours are in the RT_CLOSE window state.</p> <p>Note: Market Participants may use MWT Toolkit or an API tool of their choice for MIM data submissions. Refer to preconditions.</p>	<p>Submission is unsuccessful, and response or output file has been generated successfully.</p> <pre>D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_SUBMIT.xml ERROR: unknown, see output file for details INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml INFO: Finished processing request: opres/OPRES_SUBMIT.xml INFO: Finished client.</pre> <p>DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres</p> <table><thead><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr></thead><tbody><tr><td>OPRES_SUBMIT-out.xml</td><td>2024-07-05 3:56 PM</td><td>XML File</td><td>5 KB</td></tr></tbody></table>	Name	Date modified	Type	Size	OPRES_SUBMIT-out.xml	2024-07-05 3:56 PM	XML File	5 KB
Name	Date modified	Type	Size							
OPRES_SUBMIT-out.xml	2024-07-05 3:56 PM	XML File	5 KB							

Step	User Instruction	Expected Result
3	Verify that the response file contains an error or failure message.	Output file contains an error message about the hour in the RT_CLOSE window state "RT Market is closed for hour: <Delivery Hours submitted in RT_CLOSE window>."

```

<?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  <ns1:SubmissionTime>2024-07-05T14:56:53.961-05:00</ns1:SubmissionTime>
  <ns1:TransactionId>1</ns1:TransactionId>
  <ns1:Message>
    <ns1:Severity>ERROR</ns1:Severity>
    <ns1:Code>PMVAL_E_MARKET-RT-CLOSED</ns1:Code>
    <ns1:Description>RT Market is closed for hour:1</ns1:Description>
    <ns1:Hour>1</ns1:Hour>
  </ns1:Message>
  <ns1:Message>
    <ns1:Severity>ERROR</ns1:Severity>
    <ns1:Code>PMVAL_E_MARKET-RT-CLOSED</ns1:Code>
    <ns1:Description>RT Market is closed for hour:2</ns1:Description>
    <ns1:Hour>2</ns1:Hour>
  </ns1:Message>
</ns1:BidProcessingStatus>

```

TC06: Verify that OR Non-Standing (Normal) bid data can be successfully queried for a particular resource

Step	User Instruction	Expected Result
1	Execute Step 2 from CFS-02 from the Common Functional Steps section.	
2	Execute Step 4 from CFS-02 from the Common Functional Steps section.	

Step	User Instruction	Expected Result
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3	Execute Step 5 from CFS-02 from the Common Functional Steps section.	
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TC07: Verify that OR Standing bid data can be successfully queried for a particular resource

Step	User Instruction	Expected Result
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1	Execute Step 3 from CFS-02 from the Common Functional Steps section.	
---	--	--

2	Execute Step 4 from CFS-02 from the Common Functional Steps section.	
---	--	--

3	Execute Step 5 from CFS-02 from the Common Functional Steps section.	
---	--	--

TC08: Verify that an error message is returned when querying OR data for a resource with an invalid Bid Offer type

Step	User Instruction	Expected Result
1	Prepare an XML file to query Operating Reserve data. The file should contain an invalid Bid/Offer type for a resource.	<p>XML query file has been prepared successfully.</p>  <pre> <?xml version="1.0" encoding="UTF-8" ?> <OperatingReserveBidQuery xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd" xmlns="http://webservices.ieso.ca/emim-types/"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer><InvalidBidOffer></BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hour elements can be specified --> <Hour>1</Hour> <Hour>5</Hour> </OperatingReserveBidQuery> </pre>
2	Submit the XML file, using MWT Toolkit or submit the XML file to API tool of choice. Note: Market Participants may use MWT Toolkit or an API tool of their choice for MIM data submissions. Refer to preconditions.	<p>Submission is unsuccessful, and response or output file has been generated successfully.</p>  <pre> D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_QUERY.xml ERROR: Query failed: unknown INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_QUERY-out.xml INFO: Finished processing request: opres/OPRES_QUERY.xml INFO: Finished client. </pre>

Step	User Instruction	Expected Result
------	------------------	-----------------

DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres			
Name	Date modified	Type	Size
OPRES_QUERY-out.xml	2024-07-05 7:33 PM	XML File	1 KB

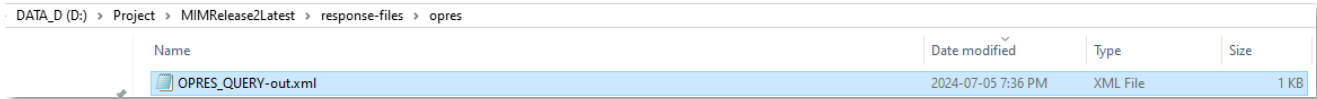
- | | | |
|---|---|--|
| 3 | Verify that the response file contains an error or failure message. | Output file should contains an error message: "Bid Type:<Invalid Bid Offer> is not valid for the Resource of Resource Type:<Resource Type>." |
|---|---|--|

```
<?xml version="1.0" encoding="UTF-8"?><ns1:QueryFault xmlns:ns1="http://webservices.ieso.ca/emim-types/">Bid Type:DISPLD is not valid for the Resource of Resource Type:HYDRO_CASCADE</ns1:QueryFault>
```

TC09: Verify that an error message is returned when querying Operating Reserve data with non-unique hours (i.e., duplicate hours in XML file)

Step	User Instruction	Expected Result
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- | | | |
|---|--|--|
| 1 | Prepare an XML file to query Operating Reserve data for a resource. The file should contain duplicate hours in the Hour field. | XML query file has been prepared successfully. |
|---|--|--|

Step	User Instruction	Expected Result
		<pre> <?xml version="1.0" encoding="UTF-8"?> <OperatingReserveBidQuery xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd" xmlns="http://webservices.ieso.ca/emim-types/"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hour elements can be specified --> <Hour>1</Hour> <Hour>1</Hour> </OperatingReserveBidQuery> </pre>
2	<p>Submit the XML file, using MWT Toolkit or submit the XML file to API tool of choice.</p> <p>Note: Market Participants may use MWT Toolkit or an API tool of their choice for MIM data submissions. Refer to preconditions.</p>	<p>Submission is unsuccessful, and response or output file has been generated successfully.</p> <pre> D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_QUERY.xml ERROR: Query failed: unknown INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_QUERY-out.xml INFO: Finished processing request: opres/OPRES_QUERY.xml INFO: Finished client. </pre> 

Step	User Instruction	Expected Result
3	Verify that the response file contains an error or failure message.	Output file should contain the error message: "Hours must be unique." <pre><?xml version="1.0" encoding="UTF-8"?><ns1:QueryFault xmlns:ns1="http://webservices.ieso.ca/emim-types/">Hours must be unique.</ns1:QueryFault></pre>

TC10: Verify that Operating Reserve Non-Standing (Normal) bid data can be successfully cancelled for a resource

Step	User Instruction	Expected Result
1	Execute Step 2 from CFS-03 from the Common Functional Steps section.	
2	Execute Step 4 from CFS-03 from the Common Functional Steps section.	
3	Execute Step 5 from CFS-03 from the Common Functional Steps section.	

TC11: Verify that Operating Reserve Standing bid data can be successfully cancelled for a resource

Step	User Instruction	Expected Result
1	Execute Step 3 from CFS-03 from the Common Functional Steps section.	
2	Execute Step 4 from CFS-03 from the Common Functional Steps section.	
3	Execute Step 5 from CFS-03 from the Common Functional Steps section.	

TC12: Verify that an error is returned for an OR data cancellation when hours in the request are non-unique (duplicate hours in the XML file)

Step	User Instruction	Expected Result
1	Prepare an XML cancellation file for an existing Operating Reserve data. The request should contain	XML cancellation file has been prepared successfully.

Step	User Instruction	Expected Result
	duplicate hours in the Hour field.	<pre> <?xml version="1.0" encoding="UTF-8"?> <OperatingReserveBidCancel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd" xmlns="http://webservices.ieso.ca/emim-types/"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <Standing> <DayOfWeek>WED</DayOfWeek> <ExpiryDate>2030-01-01</ExpiryDate> </Standing> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hourly elements can be specified --> <Hourly> <Hour>1</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> <Hourly> <Hour>1</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> </OperatingReserveBidCancel> </pre>
2	Submit the XML file, using MWT Toolkit or submit the XML file to API tool of choice. Note: Market Participants may use	Submission is unsuccessful, and response or output file has been generated successfully.

Step

User Instruction

Expected Result

MWT Toolkit or an API tool of their choice for MIM data submissions. Refer to preconditions.

```
D:\Project\MIMRelease2Latest\scripts>run-client.bat
INFO: Started web service client...
INFO: Reading configuration info from: ../request-files/ws-client.properties
INFO: Endpoint:
INFO: Started processing request: opres/OPRES_CANCEL.xml
ERROR: unknown, see output file for details
INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_CANCEL-out.xml
INFO: Finished processing request: opres/OPRES_CANCEL.xml
INFO: Finished client.
```

DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres				
Name		Date modified	Type	Size
OPRES_CANCEL-out.xml		2024-07-05 7:40 PM	XML File	1 KB

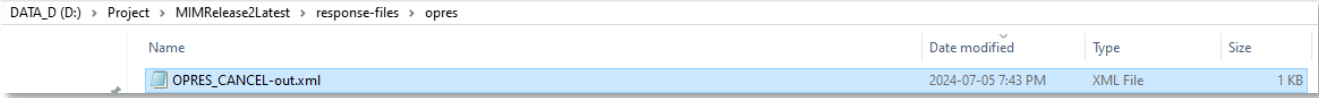
3 Verify that the response file contains an error or failure message.

Output file contains the error message: "Hours must be unique."

```
<?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  <ns1:SubmissionTime>2024-07-05T18:40:21.931-05:00</ns1:SubmissionTime>
  <ns1:TransactionId>_</ns1:TransactionId>
  <ns1:Message>
    <ns1:Severity>ERROR</ns1:Severity>
    <ns1:Code>PMVAL_E_HOURS-DUPLICATE</ns1:Code>
    <ns1:Description>Hours must be unique.</ns1:Description>
  </ns1:Message>
</ns1:BidProcessingStatus>
```

TC13: Verify that an error is returned for an OR data cancellation when the submitted hour in the request are in RT_CLOSE state

Step	User Instruction	Expected Result
1	Prepare an XML cancellation file for OR data where the submitted hour is in RT_CLOSE state.	<p>XML cancellation file has been prepared successfully.</p> <pre> <?xml version="1.0" encoding="UTF-8" standalone="yes" ?> <OperatingReserveBidCancel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hourly elements can be specified --> <Hourly> <Hour>3</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> <Hourly> <Hour>5</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> </OperatingReserveBidCancel> </pre>
2	<p>Submit the XML file using MWT Toolkit or submit the XML file through API tool.</p> <p>Note: Market Participants may use MWT Toolkit or their</p>	Submission is unsuccessful, and response or output file has been generated successfully.

Step	User Instruction	Expected Result
	own API tool of choice to submit data to MIM. Refer to the list of preconditions.	<pre> D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_CANCEL.xml ERROR: unknown, see output file for details INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_CANCEL-out.xml INFO: Finished processing request: opres/OPRES_CANCEL.xml INFO: Finished client. </pre> 
3	Verify that the response file contains an error or failure message.	<p>Output file contains the error message: "RT Market is closed for hour:<Delivery Hours submitted in RT_CLOSE window>"</p> <pre> <?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> <ns1:SubmissionTime>2024-07-05T18:43:42.158-05:00</ns1:SubmissionTime> <ns1:TransactionId> </ns1:TransactionId> <ns1:Message> <ns1:Severity>ERROR</ns1:Severity> <ns1:Code>PMVAL_E_MARKET-RT-CLOSED</ns1:Code> <ns1:Description>RT Market is closed for hour:1</ns1:Description> <ns1:Hour>1</ns1:Hour> </ns1:Message> <ns1:Message> <ns1:Severity>ERROR</ns1:Severity> <ns1:Code>PMVAL_E_MARKET-RT-CLOSED</ns1:Code> <ns1:Description>RT Market is closed for hour:2</ns1:Description> <ns1:Hour>2</ns1:Hour> </ns1:Message> </ns1:BidProcessingStatus> </pre>

TC14: Verify Operating Reserve (OR) price-offer can be successfully submitted for a GOG-eligible resource

Step	User Instruction	Expected Result
1	Prepare an valid XML submission file to submit OR data for a GOG-eligible resource.	<p>XML submission file has been prepared successfully.</p> <pre> <?xml version="1.0" encoding="UTF-8" standalone="yes" ?> <OperatingReserveBidSubmit xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>105</ReserveClass> <Hourly> <Hour>3</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <!-- Minimum of 2 and maximum of 5 PriceQuantity elements --> <PriceQuantity> <Price>10.00</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>10.00</Price> <Quantity>23</Quantity> </PriceQuantity> <ReserveLoadPoint>12.1</ReserveLoadPoint> <Reason>FD</Reason> <OtherReason>other reason text</OtherReason> </Hourly> <Hourly> <Hour>7</Hour> <!-- Mandatory and applicable only for ENERGY_IMPORT and ENERGY_EXPORT resources --> <TiePoint>TPNAME</TiePoint> <PriceQuantity> <Price>20.99</Price> <Quantity>0</Quantity> </PriceQuantity> <PriceQuantity> <Price>20.99</Price> <Quantity>21</Quantity> </PriceQuantity> </Hourly> </OperatingReserveBidSubmit> </pre>

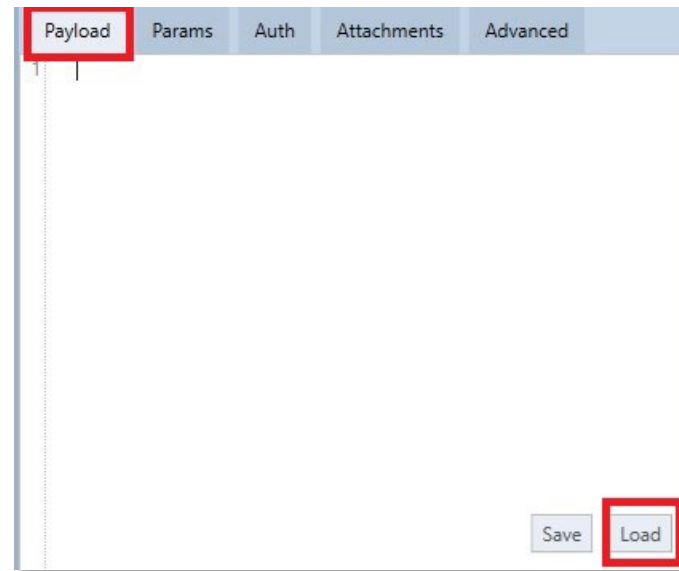
Step	User Instruction	Expected Result
2	<p>Submit the XML file, using MWT Toolkit or submit the XML file to API tool of choice, in the RT initial window.</p> <p>Note: Market Participants may use MWT Toolkit or an API tool of their choice for MIM data submissions. Refer to preconditions.</p>	<p>If using an API tool, load the XML file into the payload section.</p>

```

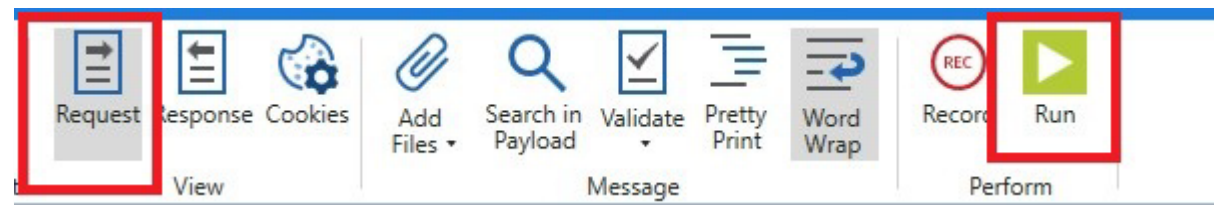
    <Quantity>21</Quantity>
  </PriceQuantity>
  ▼<PriceQuantity>
    <Price>30.77</Price>
    <Quantity>38</Quantity>
  </PriceQuantity>
  ▼<PriceQuantity>
    <Price>40.88</Price>
    <Quantity>51</Quantity>
  </PriceQuantity>
  <ReserveLoadPoint>17.9</ReserveLoadPoint>
  <Reason>ERPO</Reason>
  <OtherReason>other reason text</OtherReason>
</Hourly>
</OperatingReserveBidSubmit>

```




Step	User Instruction	Expected Result
------	------------------	-----------------



Run the request by clicking Run within the API tool.



If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.

Step	User Instruction	Expected Result								
		<div><pre>D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_SUBMIT.xml INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml INFO: Finished processing request: opres/OPRES_SUBMIT.xml INFO: Finished client.</pre></div> <div><div>DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres</div><table><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr><tr><td> OPRES_SUBMIT-out.xml</td><td>2024-07-05 3:17 PM</td><td>XML File</td><td>1 KB</td></tr></table></div>	Name	Date modified	Type	Size	 OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB
Name	Date modified	Type	Size							
 OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB							
3	Verify that the response file contains a successful message.	<p>Output file confirms that the Operating Reserve data submission was successfully processed for the GOG-eligible resource.</p> <p>For API tool:</p>								

Step**User Instruction****Expected Result**

Status Code	Response Time (ms)
200 200	411

Payload	Attachments
<pre>1 <ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> 2 <ns1:SubmissionTime>[redacted]</ns1:SubmissionTime> 3 <ns1:TransactionId>[redacted]</ns1:TransactionId> 4 <ns1:Message> 5 <ns1:Severity>[redacted]</ns1:Severity> 6 <ns1:Code>[redacted]SUBMIT-SUCCESS</ns1:Code> 7 <ns1:Description>Successfully processed the OPRES submission.</ns1:Description> 8 </ns1:Message> 9 </ns1:BidProcessingStatus></pre>	

For MWT tool:

```
▼<ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  <ns1:SubmissionTime>[redacted]</ns1:SubmissionTime>
  <ns1:TransactionId>[redacted]</ns1:TransactionId>
  ▼<ns1:Message>
    <ns1:Severity>INFO</ns1:Severity>
    <ns1:Code>PMPROC_I_SUBMIT-SUCCESS</ns1:Code>
    <ns1:Description>Successfully processed the OPRES submission.</ns1:Description>
  </ns1:Message>
</ns1:BidProcessingStatus>
```


TC15: Verify that Operative Reserve data submission can be queried for a GOG-eligible resource

Step	User Instruction	Expected Result
1	Prepare an XML file to query an existing OR submission for a GOG-eligible resource	<p>XML submission file has been prepared successfully.</p> <pre> ▼<OperatingReserveBidQuery xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> ▼<ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> ▼<Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hour elements can be specified --> <Hour>3</Hour> <Hour>5</Hour> </OperatingReserveBidQuery> </pre>
2	Execute Step 3 from CFS-02 from the Common Functional Steps section.	
3	Verify that the response file contains a successful message along with the queried data for the GOG-eligible resource.	<p>Output file contains a successful message and the queried data for the GOG-eligible resource.</p> <p>For API Tool:</p>

Step

User Instruction

Expected Result

For MWT Tool:

Status Code	Response Time (ms)
200 200	411

Payload	Attachments
<pre> 1 <ns1:OperatingReserveBidSet xmlns:ns1="http://webservices.ieso.ca/emim-types/"> 2 <ns1:OperatingReserveBidSubmit> 3 <ns1:ActAsMarketParticipant> 4 <ns1:Participant> 5 <ns1:User> 6 </ns1:ActAsMarketParticipant> 7 <ns1:Date> 8 <ns1:DeliveryDate> 9 </ns1:Date> 10 <ns1:BidOffer> 11 <ns1:ResourceName> 12 <ns1:ReserveClass> 13 <ns1:Hourly> 14 <ns1:Hour> 15 <ns1:PriceQuantity> 16 <ns1:Price> 17 <ns1:Quantity> 18 </ns1:PriceQuantity> 19 <ns1:PriceQuantity> 20 <ns1:Price> 21 <ns1:Quantity> 22 </ns1:PriceQuantity> 23 <ns1:PriceQuantity> 24 <ns1:Price> 25 <ns1:Quantity> 26 </ns1:PriceQuantity> 27 <ns1:ReserveLoadPoint> 28 <ns1:Reason> 29 <ns1:OtherReason> 30 </ns1:Hourly> 31 <ns1:Hourly> 32 <ns1:Hour> 33 <ns1:PriceQuantity> 34 <ns1:Price> 35 <ns1:Quantity> 36 </ns1:PriceQuantity> 37 <ns1:PriceQuantity> 38 <ns1:Price> 39 <ns1:Quantity> 40 </ns1:PriceQuantity> 41 <ns1:PriceQuantity> 42 <ns1:Price> 43 <ns1:Quantity> 44 </ns1:PriceQuantity> 45 <ns1:ReserveLoadPoint> 46 <ns1:Reason> 47 <ns1:OtherReason> 48 </ns1:Hourly> </pre>	

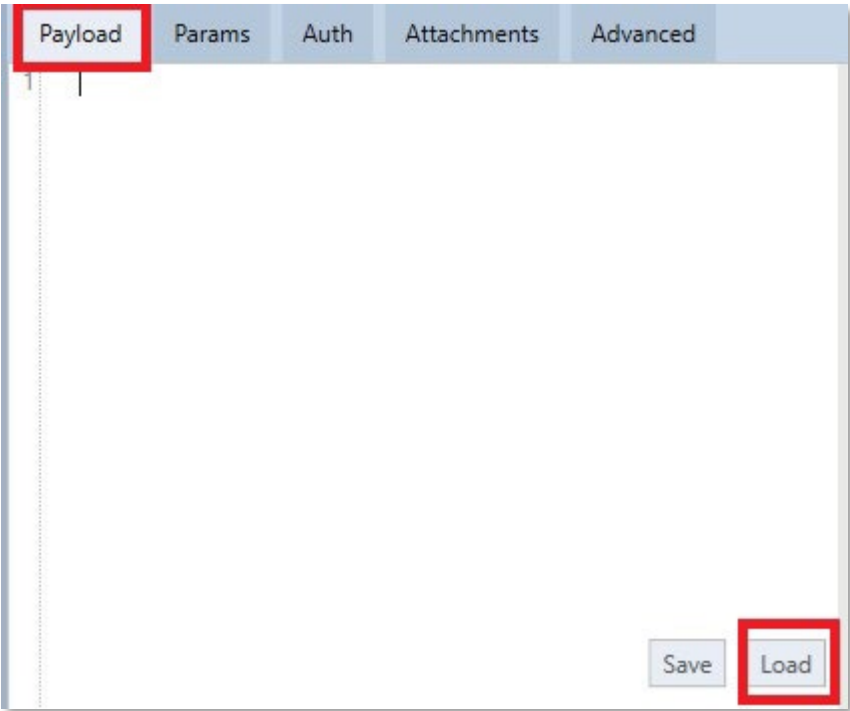
Step**User Instruction****Expected Result**

```
▼<ns1:OperatingReserveBidSet xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  ▼<ns1:OperatingReserveBidSubmit>
    ▼<ns1:ActAsMarketParticipant>
      <ns1:Participant>[REDACTED]</ns1:Participant>
      <ns1:User>[REDACTED]</ns1:User>
    </ns1:ActAsMarketParticipant>
    ▼<ns1:Date>
      <ns1:DeliveryDate>2019-11-24T03:00</ns1:DeliveryDate>
    </ns1:Date>
    <ns1:BidOffer>INJECTION</ns1:BidOffer>
    <ns1:ResourceName>[REDACTED]</ns1:ResourceName>
    <ns1:ReserveClass>10N</ns1:ReserveClass>
    ▼<ns1:Hourly>
      <ns1:Hour>8</ns1:Hour>
      <ns1:TiePoint>[REDACTED]</ns1:TiePoint>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>0</ns1:Quantity>
      </ns1:PriceQuantity>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>100</ns1:Quantity>
      </ns1:PriceQuantity>
      <ns1:ReserveLoadPoint>0</ns1:ReserveLoadPoint>
    </ns1:Hourly>
    ▼<ns1:Hourly>
      <ns1:Hour>9</ns1:Hour>
      <ns1:TiePoint>[REDACTED]</ns1:TiePoint>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>0</ns1:Quantity>
      </ns1:PriceQuantity>
      ▼<ns1:PriceQuantity>
        <ns1:Price>75</ns1:Price>
        <ns1:Quantity>100</ns1:Quantity>
      </ns1:PriceQuantity>
      <ns1:ReserveLoadPoint>0</ns1:ReserveLoadPoint>
    </ns1:Hourly>
  </ns1:OperatingReserveBidSubmit>
</ns1:OperatingReserveBidSet>
```

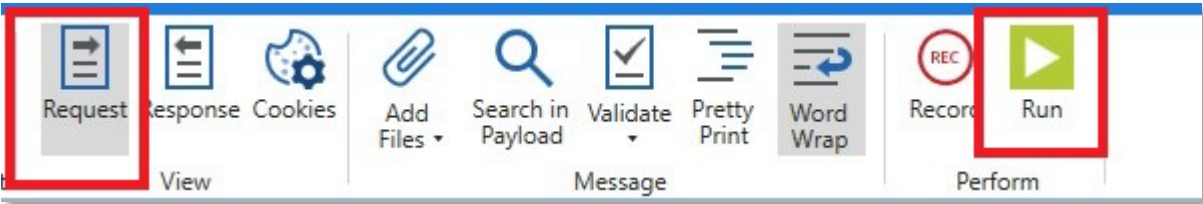
TC16: Verify that the submission of OR data when the window state for the specified hour in the file is in the DA Restricted Window and there is a change in values within the request, the submission itself is subject to operator approval

Step	User Instruction	Expected Result
1	Execute Step 2 from CFS-01 from the Common Functional Steps section.	
2	Execute Step 4 from CFS-01 from the Common Functional Steps section.	
3	Execute Step 5 from CFS-01 from the Common Functional Steps section.	
4	Submit the same XML file from step 1 but with no changes made to the data fields and the submitted hour is in the Day-Ahead Restricted Window (DA_RESTRICTED).	If using an API tool, load the XML file into the payload section.

Step	User Instruction	Expected Result
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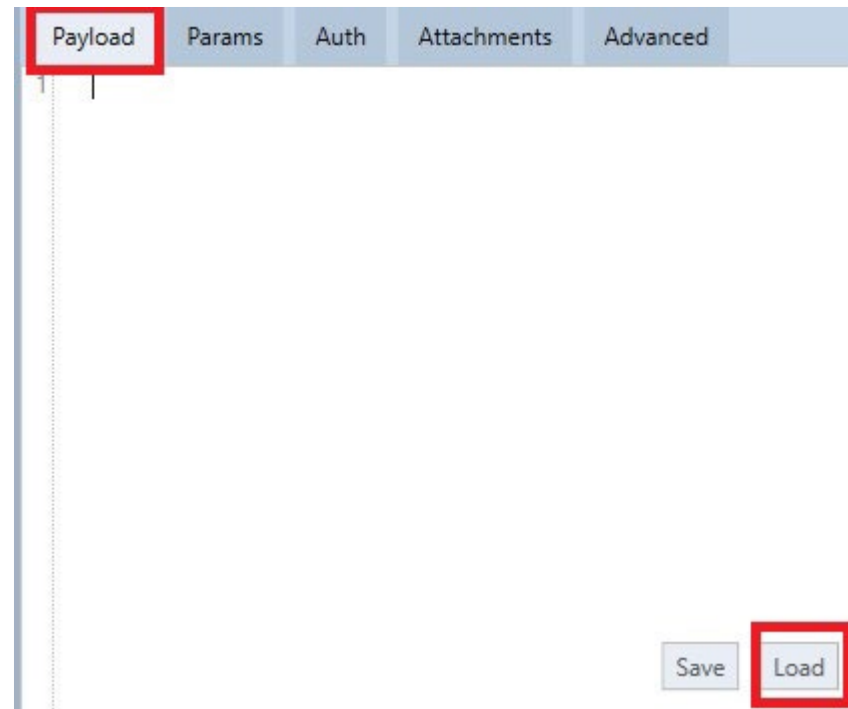


Run the request by clicking Run within the API tool.

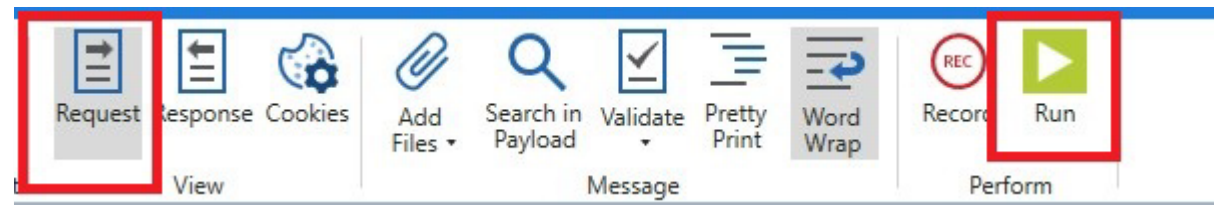


Step	User Instruction	Expected Result															
		<p>If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.</p> <div><pre>D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_SUBMIT.xml INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml INFO: Finished processing request: opres/OPRES_SUBMIT.xml INFO: Finished client.</pre><table><tr><td colspan="5">DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres</td></tr><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th><th></th></tr><tr><td>OPRES_SUBMIT-out.xml</td><td>2024-07-05 3:17 PM</td><td>XML File</td><td>1 KB</td><td></td></tr></table></div>	DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres					Name	Date modified	Type	Size		OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB	
DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres																	
Name	Date modified	Type	Size														
OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB														
5	Execute Step 5 from CFS-01 from the Common Functional Steps section.																
6	Submit the same XML file from step 1 but with changes made to any of the data fields and the submitted hour is in the Day-Ahead Restricted Window (DA_RESTRICTED).	If using an API tool, load the XML file into the payload section.															

Step	User Instruction	Expected Result
------	------------------	-----------------



Run the request by clicking Run within the API tool.



Step

User Instruction

Expected Result

If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.

```
D:\Project\MIMRelease2Latest\scripts>run-client.bat
INFO: Started web service client...
INFO: Reading configuration info from: ../request-files/ws-client.properties
INFO: Endpoint:
INFO: Started processing request: opres/OPRES_SUBMIT.xml
INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml
INFO: Finished processing request: opres/OPRES_SUBMIT.xml
INFO: Finished client.
```

DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres

Name	Date modified	Type	Size
OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB

7

Verify the message in the response file.

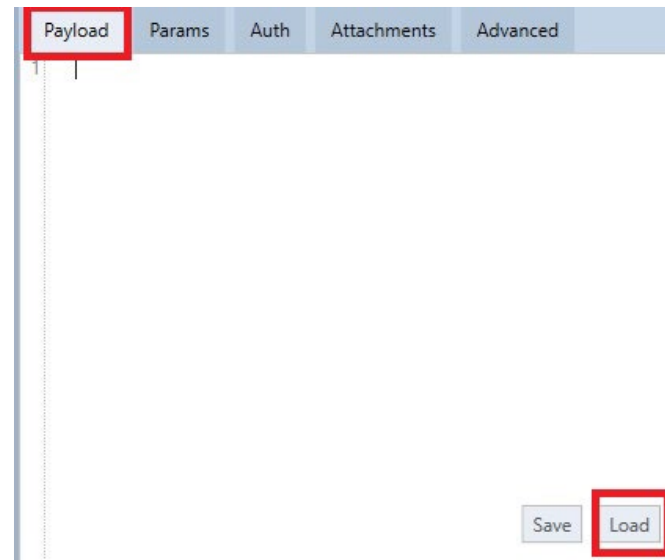
Output file contains text indicating that :Submission is successful and is waiting for operator approval

```
<?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  <ns1:SubmissionTime>2024-07-05T18:52:43.149-05:00</ns1:SubmissionTime>
  <ns1:TransactionId>      </ns1:TransactionId>
  <ns1:Message>
    <ns1:Severity>INFO</ns1:Severity>
    <ns1:Code>PMPROC_I_SUBMIT-APPROVAL-NEEDED</ns1:Code>
    <ns1:Description>Submission is successful and is waiting for operator approval.</ns1:Description>
  </ns1:Message>
</ns1:BidProcessingStatus>
```

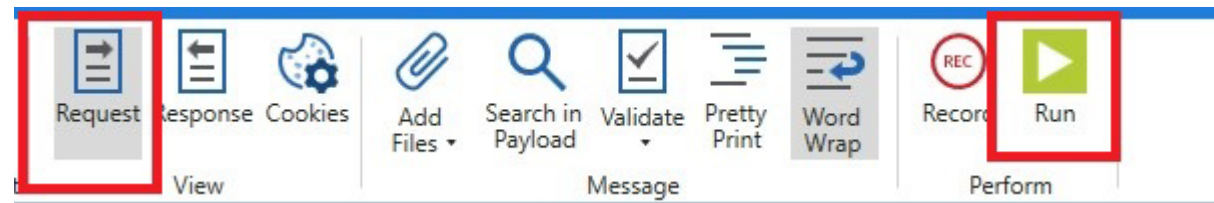

TC17: Verify that the submission of OR data when the window state for the specified hour in the file is in the RT Mandatory Window and there is a change in values within the request, the submission itself is subject to operator approval

Step	User Instruction	Expected Result
1	Execute Step 2 from CFS-01 from the Common Functional Steps section.	
2	Execute Step 4 from CFS-01 from the Common Functional Steps section.	
3	Execute Step 5 from CFS-01 from the Common Functional Steps section.	
4	Submit the same XML file from step 1 but with no changes made to the data fields and the submitted hour is in the Real-Time Mandatory Window (RT_MANDATORY).	If using an API tool, load the XML file into the payload section.

Step	User Instruction	Expected Result
------	------------------	-----------------



Run the request by clicking Run within the API tool.



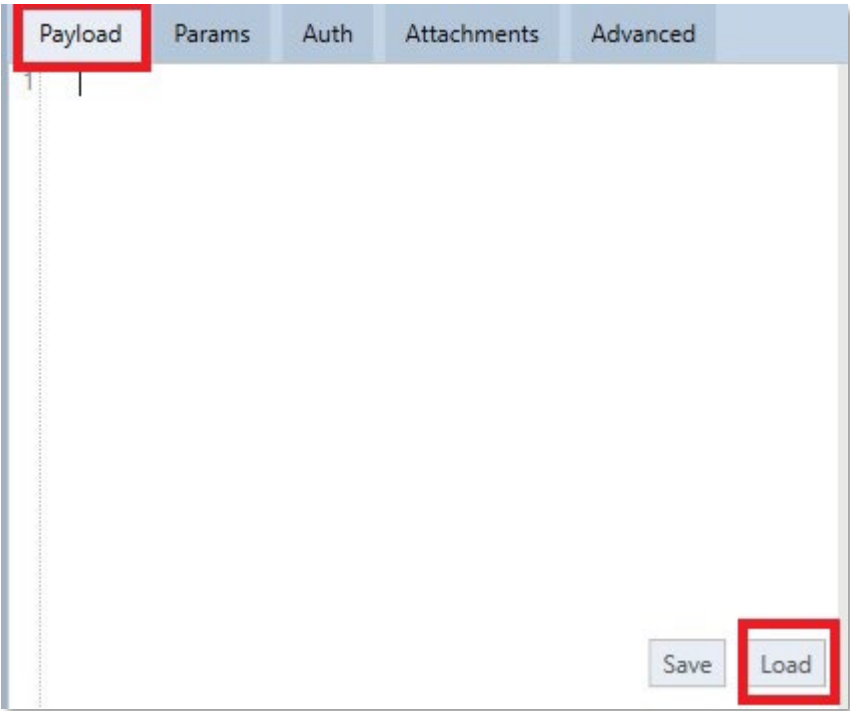
If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.

Step	User Instruction	Expected Result								
		<div><pre>D:\Project\MIMRelease2Latest\scripts>run-client.bat INFO: Started web service client... INFO: Reading configuration info from: ../request-files/ws-client.properties INFO: Endpoint: INFO: Started processing request: opres/OPRES_SUBMIT.xml INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml INFO: Finished processing request: opres/OPRES_SUBMIT.xml INFO: Finished client.</pre></div> <div><p>DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres</p><table><thead><tr><th>Name</th><th>Date modified</th><th>Type</th><th>Size</th></tr></thead><tbody><tr><td>OPRES_SUBMIT-out.xml</td><td>2024-07-05 3:17 PM</td><td>XML File</td><td>1 KB</td></tr></tbody></table></div>	Name	Date modified	Type	Size	OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB
Name	Date modified	Type	Size							
OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB							
5	Execute Step 5 from CFS-01 from the Common Functional Steps section.									
6	Submit the same XML file from step 1 but with changes made to any of the data fields and the submitted hour is in the Real-Time Mandatory Window (RT_MANDATORY).	If using an API tool, load the XML file into the payload section.								

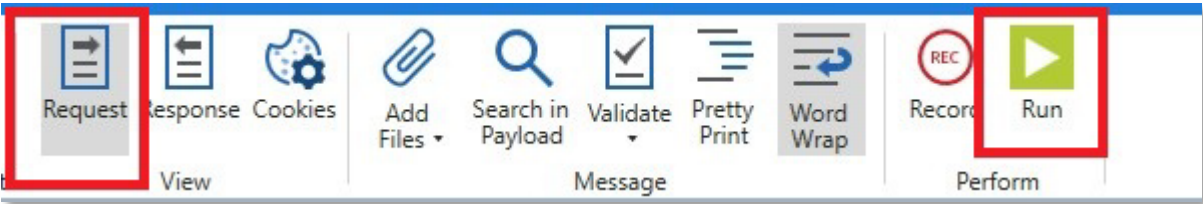
Step

User Instruction

Expected Result



Run the request by clicking Run within the API tool.



Step

User Instruction

Expected Result

If using the MWT Toolkit, submission of dispatch data is successful, and response or output file has been generated successfully.

```
D:\Project\MIMRelease2Latest\scripts>run-client.bat
INFO: Started web service client...
INFO: Reading configuration info from: ../request-files/ws-client.properties
INFO: Endpoint:
INFO: Started processing request: opres/OPRES_SUBMIT.xml
INFO: Writing response to: D:\Project\MIMRelease2Latest\scripts\..\response-files\opres\OPRES_SUBMIT-out.xml
INFO: Finished processing request: opres/OPRES_SUBMIT.xml
INFO: Finished client.
```

DATA_D (D:) > Project > MIMRelease2Latest > response-files > opres

Name	Date modified	Type	Size
OPRES_SUBMIT-out.xml	2024-07-05 3:17 PM	XML File	1 KB

7

Verify the message in the response file.

Output file contains text indicating that the Submission is successful and is waiting for operator approval.

```
<?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/">
  <ns1:SubmissionTime>2024-07-05T18:52:43.149-05:00</ns1:SubmissionTime>
  <ns1:TransactionId>                </ns1:TransactionId>
  <ns1:Message>
    <ns1:Severity>INFO</ns1:Severity>
    <ns1:Code>PMPROC_I_SUBMIT-APPROVAL-NEEDED</ns1:Code>
    <ns1:Description>Submission is successful and is waiting for operator approval.</ns1:Description>
  </ns1:Message>
</ns1:BidProcessingStatus>
```

TC18: If the RT window for the submitted hour is in the DA_RESTRICTED state, then the cancellation of OR data is subject to operator approval

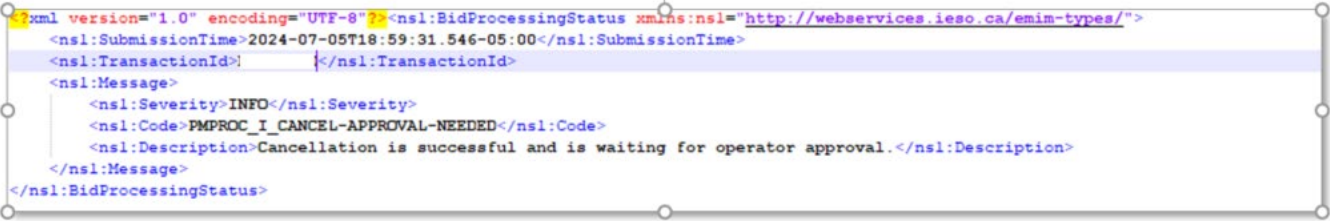
Step	User Instruction	Expected Result
1	Prepare an XML cancellation file for OR data where the submitted hours in the file are in the DA_RESTRICTED state.	<p>XML cancellation file has been prepared successfully.</p> <pre><?xml version='1.0' encoding='UTF-8'> <OperatingReserveBidCancel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> <ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> <Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hourly elements can be specified --> <Hourly> <Hour>3</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> <Hourly> <Hour>5</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> </OperatingReserveBidCancel></pre>
2	Execute Step 3 from CFS-03 from the Common Functional Steps section.	
3	Verify the message in the response file.	The output file contains the message: "Cancellation is successful and is waiting for operator approval."

Step	User Instruction	Expected Result
		<pre> <?xml version="1.0" encoding="UTF-8"><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> <ns1:SubmissionTime>2024-07-05T18:59:31.546-05:00</ns1:SubmissionTime> <ns1:TransactionId>{ }</ns1:TransactionId> <ns1:Message> <ns1:Severity>INFO</ns1:Severity> <ns1:Code>PMPROC_I_CANCEL-APPROVAL-NEEDED</ns1:Code> <ns1:Description>Cancellation is successful and is waiting for operator approval.</ns1:Description> </ns1:Message> </ns1:BidProcessingStatus> </pre>

TC19: If the RT window for the submitting/specified hour is in RT_Mandatory state, then the cancellation of OR data is subject to operator approval

Step	User Instruction	Expected Result
1	Prepare an XML cancellation file for OR data where the submitted hours in the file are in the RT_Mandatory state	XML cancellation file has been prepared successfully.

Step	User Instruction	Expected Result
		<pre> ▼<OperatingReserveBidCancel xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://webservices.ieso.ca/emim-types/" xsi:schemaLocation="http://webservices.ieso.ca/emim-types/ emim.xsd"> ▼<ActAsMarketParticipant> <Participant>PNAME</Participant> <User>UNAME</User> </ActAsMarketParticipant> ▼<Date> <DeliveryDate>2023-01-01</DeliveryDate> </Date> <BidOffer>GENERATOR</BidOffer> <ResourceName>RNAME</ResourceName> <ReserveClass>10S</ReserveClass> <!-- Minimum of 1 must be present and maximum of 24 Hourly elements can be specified --> ▼<Hourly> <Hour>3</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> ▼<Hourly> <Hour>5</Hour> <Reason>ERPO</Reason> <OtherReason>other reason code</OtherReason> </Hourly> </OperatingReserveBidCancel> </pre>
2	Execute Step 3 from CFS-03 from the Common Functional Steps section.	
3	Verify the message in the response file.	Output file contains text indicating that the "Cancellation is successful and is waiting for operator approval."

Step	User Instruction	Expected Result
		 <pre> <?xml version="1.0" encoding="UTF-8"?><ns1:BidProcessingStatus xmlns:ns1="http://webservices.ieso.ca/emim-types/"> <ns1:SubmissionTime>2024-07-05T18:59:31.546-05:00</ns1:SubmissionTime> <ns1:TransactionId>{</ns1:TransactionId> <ns1:Message> <ns1:Severity>INFO</ns1:Severity> <ns1:Code>PMPROC_I_CANCEL-APPROVAL-NEEDED</ns1:Code> <ns1:Description>Cancellation is successful and is waiting for operator approval.</ns1:Description> </ns1:Message> </ns1:BidProcessingStatus> </pre>

Additional Resources

- [MRP Market Trials Test Plan](#)
- Energy Market Interface/Market Information Management (MIM)
 - [Submitting and Revising Daily Dispatch Data](#)
 - [Submitting, Revising and Cancelling Energy Bids](#)
 - [Submitting, Revising and Cancelling Energy Offers](#)
 - [Submitting, Revising and Cancelling Import Offers and Export](#)
 - [Submitting and Revising Forebay Dispatch Data](#)
 - [Submitting, Revising and Cancelling Operating Reserve Offers](#)
 - [Submitting, Revising and Cancelling Schedules and Forecasts](#)
- [Test Cases for Connectivity Testing \(.zip\)](#)
- [Quick Take: Submission of Test Case Results and Defects in qTest](#)

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