

# Gemini API Specification

## *Confirm Multi Locational Trades (Update)*

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Author (for this version):	<b>National Grid IS</b>
Owner:	<b>National Grid O&amp;T</b>
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## 1 API Specification

### 1.1 Overview

**Physical and Locational Trades conducted by a Market Operator through the On-the-day Commodity Market require confirmation by BAs within timescales defined by the specified Physical Renomination Incentive. This API allows BAs to confirm OCM trades against multiple locations by providing the Locations (Meter Ids) at which the BA wishes to renominate. Renominations will be created for the confirmed trades.**

### 1.2 API URLs

All URLs are expressed relative to the root URL for the API service. BAs are advised to parameterise URLs to minimise the impact of change.

URL to Access the API

**API clients must invoke this URL to access this API's functionality:**  
**/gemini/controllers/UpdateMultiLocationalOCMTradesControllerAPI**  
**/**

URL for Request XSD

**The XSD found at this URL can be used to validate the request XML format:**

**/gemini/api/schema/geminiapiconfirmmultilocationaltradereq.xsd**

URL for Response XSD

**The XSD found at this URL can be used to validate the response XML format:**

**/gemini/api/schema/geminiapiconfirmmultilocationaltraderes.xsd**

### 1.3 XML Specifications

#### 1.3.1 API Request

Element Table

Hierarchy	Data Element	Screen Label	Description	Data Type	Data Length	Mandatory
0	UPDT_MUL_RNM		Top-level hierarchy for Update Physical Renominations.			

1	GAS_DAY	Gas Day	The gas day for which OCM Multi Locational trades are to be confirmed.  The date should be in YYYY-MM-DD format.	Date	10	Y
1	BID_ID	Bid Id	The bid identifier associated with each bid (unique).	String	8	Y
1*	UPDT_MUL_RNM_DTL	Top-level hierarchy for Update Physical Renominations for Gas Day.				
2	MTR_ID	Meter Id	The meter Id against which the trade is to be confirmed.	String	10	Y
2	RNM_QTY	Renomination Qty (kWh)	Quantity of energy to be renominated in KWh.	Long	13	Y
2	IGNR_TLRNCE	Ignore Tol Check	Flag to indicate whether the tolerance check must be carried out for the record.  Permissible values are: Y - Ignore tolerance check N - Perform tolerance check	String	1	Y

## Schema Definition

*Name of file:* geminiapiconfirmmultilocationaltradereq.xsd

```

<?xml version="1.0"?>
<xsschema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xselement name="UPDT_MUL_RNM">
    <xsccomplexType>
      <xsssequence>
        <xselement name="GAS_DAY" type="xs:date"/>
        <xselement name="BID_ID">
          <xssimpleType>
            <xsrrestriction base="xs:string">
              <xsmmaxLength value="8"/>
              <xsmminLength value="1"/>
            </xsrrestriction>
          </xssimpleType>
        </xselement>
        <xselement name="UPDT_MUL_RNM_DTL" minOccurs="0" maxOccurs="unbounded">
          <xsccomplexType>
            <xsssequence>
              <xselement name="MTR_ID">
                <xssimpleType>
                  <xsrrestriction base="xs:string">
                    <xsmmaxLength value="10"/>
                  </xsrrestriction>
                </xssimpleType>
              </xselement>
            </xsssequence>
          </xsccomplexType>
        </xselement>
      </xsssequence>
    </xsccomplexType>
  </xselement>
</xsschema>

```

```

        <xs:minLength value="1"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="RNM_QTY">
    <xs:simpleType>
        <xs:restriction base="xs:long">
            <xs:totalDigits value="13"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element name="IGNR_TLRNCE">
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:enumeration value="Y"/>
            <xs:enumeration value="N"/>
            <xs:length value="1"/>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

### 1.3.2 API Response

Element Table

Hierarchy	Data Element	Screen Label	Description	Data Type	Data Length
0	UPDT_MUL_RNM_OUT		Top-level hierarchy for output elements.		
1	METADATA		Top-level hierarchy for meta information elements.		
2	TMSTMP		Time stamp of API access	DateTime	19
1	DTL		Top-level hierarchy for Details.		
2	UPDT_MUL_RNM_INF		Top-level hierarchy for Physical Renominations.		
3	GAS_DAY	Gas Day	The gas day for which OCM trades are to be confirmed.	Date	10
3	BID_ID	Bid Id	The bid identifier associated with each bid (unique).	String	8
3*	UPDT_MUL_RNM_DTL		Top-level hierarchy for Physical Renominations response for the Gas Day.		
4	MTR_ID	Meter Id	The meter Id against which the trade is confirmed.	String	10
4	RNM_QTY	Renomination Qty (kWh)	Quantity of energy to be renominated in kWh.	Long	13

4	<b>IGNR_TLRNCE</b>	Ignore Tol Check	Flag to indicate whether the tolerance check must be carried out for the record.  Permissible values are: Y - Ignore tolerance check N - Perform tolerance check	String	1
4	<b>STS</b>		The status of the records  Expected values are: S - Success F - Failure	String	1
4	<b>MSG_CD</b>		This field gives the corresponding message code, in the case of success as well as failure.	String	18
4	<b>MSG_DESC</b>		This field provides further descriptive information on the status of the record.  Indicates if record is successful or has failed. In case of failure, a reason is provided.	String	

## Schema Definition

*Name of file:* geminiapiconfirmmultilocationaltraderes.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="UPDT_MUL_RNM_OUT">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="METADATA">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="TMSTMP" type="xs:dateTime"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="DTL">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="UPDT_MUL_RNM_INF">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="GAS_DAY" type="xs:date"/>
                    <xs:element name="BID_ID">
                      <xs:simpleType>
                        <xs:restriction base="xs:string">
                          <xs:maxLength value="8"/>
                        </xs:restriction>
                      </xs:simpleType>
                    </xs:element>
                    <xs:element name="UPDT_MUL_RNM_DTL" minOccurs="0"
maxOccurs="unbounded">
                      <xs:complexType>
                        <xs:sequence>
                          <xs:element name="MTR_ID">

```



## 1.4 API Specific Error Messages

This API can return the following specific messages. These are in addition to any generic error messages that the API can return. See the [API Usage Guidelines](#) section 4.1.4. Where different APIs return messages with the same code, the meaning will be the same.

The messages below will be reported in the response XML structure for this API in the MSG\_CD and MSG\_DESC elements, whereas generic error messages, which represent a more fundamental failure,

**will be reported in the error XML structure. Note that the messages below include the report of successful updates.**

**Note that, though message codes will stay fixed, message descriptions can be changed without formal notification to improve clarity.**

Table 1 - API Specific Messages

Message Code	Message
GEM_API_ERROR_0300	Invalid Bid Id for the BA.
GEM_API_ERROR_0302	Current time is before the beginning Renominations deadline.
GEM_API_ERROR_0303	Current time is after the ending Renominations deadline.
GEM_API_ERROR_0304	Production Date has expired.
GEM_API_MSG_0305	Renomination committed successfully.
GEM_API_ERROR_0306	Meter is not active on Gemini system.
GEM_API_ERROR_0307	Location should be ST, DC, OS, SE, XI, XF.
GEM_API_ERROR_0308	Shipper is not a registered user for the meter.
GEM_API_ERROR_0309	A negative implied flow rate validation has occurred.
GEM_API_MSG_0310	Renomination committed with PRI charges.
GEM_API_ERROR_0311	Tolerance value has been exceeded while confirming the trade.
GEM_API_ERROR_0312	Total quantity should match Trade Quantity.
GEM_API_ERROR_0313	Duplicate meter runs are not allowed.
GEM_API_ERROR_0315	Service is not available for the shipper
GEM_API_MSG_0319	This record is valid, but cannot be committed due to failure of one or more of the other records.

## 2 Document Control

### 2.1 Superseded Documents

Title	Reference	Version	Date
Gemini API Specifications – Additional API's Entry Capacity & Energy Balancing	Gemini API Specifications – Additional API's for Entry Capacity and Energy Balancing	1	26-Nov-2004

### 2.2 Version History

Version	Status	Date	Author(s)	Summary of Changes
1	For Representation	28-Jan-2005	NGT IS	Baseline version generated from contents of superseded document.
1	For Representation	03-Feb-2005	NGT IS	Various changes as follows: <ul style="list-style-type: none"> <li>- API URL corrected.</li> <li>- Minor changes to request and response XSDs.</li> <li>- Two new error messages added.</li> </ul>
1	For Representation	15-Feb-2005	NGT IS	Changes following NGT internal review as follows: <ul style="list-style-type: none"> <li>- Section reference to API Usage Guidelines document for generic error messages corrected.</li> <li>- Message 310 corrected from ERROR type to MSG type.</li> </ul>
1	For Approval	11-Mar-2005	NGT IS	Error message GEM_API_ERROR_0314 removed and informational message GEM_API_MSG_0319 added.
1	Approved	17-Mar-2005	NGT IS	Approved at UK-Link Committee.
2	For Representation	07-Sep-2005	National Grid IS	Corrections highlighted during Gemini trials as follows: <ul style="list-style-type: none"> <li>- Missing "s" in URL in section 1.2;</li> <li>- "Transco" replaced by "Gemini" in message GEM_API_ERROR_0306.</li> </ul> <p>Also, references to NGT changed to National Grid.</p>
2	For Approval	29-Sep-2005	National Grid IS	No representation comments received. Submitted "For Approval" without further modification.