

Gemini API Specification

View Renominations

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1 API Specification

1.1 Overview

Using this API, the BA will be able to retrieve their input/output Renominations for a gas day. The input / output Renominations are differentiated based on the service identifier. **Renominations for Non-Daily-Metered (NDM) meters are excluded, i.e., they are not returned.**

This specification contains interface details (relevant URLs, request and response XML message formats, specific error messages) for this API. For more general guidance on API function and usage, see the API Usage Guidelines document.

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/ViewRenominationControllerAPI/`

URL for Request XSD

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

`/gemini/api/schema/geminiapiviewrenominationreq.xsd`

URL for Response XSD

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

`/gemini/api/schema/geminiapiviewrenominationres.xsd`

1.3 XML Specifications

An asterisk in the 'Hierarchy' column of API Request and Response element tables denotes an element or group that may occur multiple times.

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1.3.1 API Request

Element Table

Hierarchy	Data Element	Description	Data Type	Data Length	Mandatory
0	VW_RNM_QRY	Top level hierarchy for query elements			
1	GAS_DAY	Gas Day for which Renominations are requested	Date	10	Yes
1	SERVC_ID	Unique ID associated to a BA's service	String	15	Yes
1	STRT_ACTVTY_NBR	Unique identifier for an activity under a service for a BA.	Integer	6	Yes
1	END_ACTVTY_NBR	Unique identifier for an activity under a service for a BA. If the value input is '0' (zero) for the STRT_ACTVTY_NBR and '999999' for END_ACTVTY_NBR, then the results are fetched for all the activities.	Integer	6	Yes
1	REQ_STS	The status of the entered Nominations/RenominationsThe permissible values are (Case sensitive): N – Nominated A – Approved R – Rejected If this field is omitted, then the records will be fetched irrespective of the status of the Nomination/ Renomination.	String	1	No

Schema Definition

Name of file: geminiapiviewrenominationreq.xsd

```
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="VW_RNM_QRY">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="GAS_DAY" type="xs:date"/>
        <xs:element name="SERVC_ID">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:minLength value="1"/>
              <xs:maxLength value="15"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="STRT_ACTVTY_NBR">
          <xs:simpleType>
            <xs:restriction base="xs:nonNegativeInteger">
              <xs:totalDigits value="6"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

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```

        </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="END_ACTVTY_NBR">
        <xs:simpleType>
            <xs:restriction base="xs:nonNegativeInteger">
                <xs:totalDigits value="6"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    <xs:element name="REQ_STS" minOccurs="0">
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="A"/>
                <xs:enumeration value="N"/>
                <xs:enumeration value="R"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

1.3.2 API Response

Element Table

Hierarchy	Data Element	Description	Data Type	Data length
0	VW_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	VW_RNM_QRY	Top level hierarchy for meta information elements For child element details please refer to the request specification		
2	GAS_DAY	Gas Day for which Renominations are requested	Date	10
2	SERVC_ID	Unique ID associated to a BA's service	String	15
2	STRT_ACTVTY_NBR	Unique identifier for an activity under a service for a BA.	Integer	6
2	END_ACTVTY_NBR	Unique identifier for an activity under a service for a BA.	Integer	6
2	REQ_STS	The status of the entered Nominations/Renominations The permissible values are: N - Nominated A – Approved R – Rejected If this field is omitted, then the records will be fetched irrespective of the status of the	String	1

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		Nomination/ Renomination.		
1	DTL	Top-level hierarchy for Details.		
2	RNM_DTL	Top-level hierarchy for Renominations Details.		
3*	RNM_DTL_INF	The detail record for Renomination		
4	ACTVTY_NBR	Unique identifier for an activity under a service for a BA.	Integer	6
4	SF	Special Function indicates the type of Renomination. AF - Accepted Flex bid OC – OCM Renomination Spaces(' ') – Normal Renomination.	String	2
4	METER_ID	The meter on which the Renomination is created	String	10
4	STRT_TM	The start time of the latest Renomination step for an activity. This will be of the format hh	Integer	2
4	REQ_NRG	Quantity of energy requested for the gas day for the service/activity (kWh).	Long	13
4	REQ_STS	The status of the entered Renomination. The permissible values are: N - Nominated. A - Approved. R - Rejected.	String	1
4	SCHD_NRG	Quantity of energy approved by O&T User for the Gas Day for the Service/Activity (kWh) If the Nomination / Renomination is unapproved, the value will be 'NULL'	Long	13
4	SCHD_STS	The scheduled status of the entered Nominations/Renominations. The permissible values are: A - The Nomination / Renomination has been approved Blank space(NULL)- The Nomination / Renomination is unapproved	String	1
4	NO_OF_STPS	The number of Renomination Steps	Integer	2
4	OPP_FL	Flag to indicate the direction of flow The permissible values are: N - Indicates that it is a normal flow Nomination / Renomination Y - Indicates that it is an	String	1

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		opposite flow Nomination / Renomination		
4	FRST_NM	Flag to indicate whether the record is a Nomination, Renomination or a first Nomination. The permissible values are: N - This indicates that a Nomination was created for this Activity in the Nomination Window. R - This indicates that a Renomination was created for this Activity in the Renomination window. F – This is displayed when a Renomination is created on an activity for the first time in the Renomination window, i.e. an Activity for which a prior Nomination does not exist.	String	1
3	ENERGY_TOTLS	Top-level hierarchy for Energy Totals.		
4	REQ_NRG_TOT	This is the sum of all the Requested Energy for the specified Gas Day (kWh).	Long	-
4	SCHD_NRG_TOT	This is the sum of all the Scheduled Energy for the specified Gas Day (kWh).	Long	-
3	NO_OF_ACTVTS	The total number of activities fetched	Integer	6

Schema Definition

Name of file: geminiapiviewrenominationres.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="VW_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="VW_RNM_QRY">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="GAS_DAY" type="xs:date"/>
              <xs:element name="SERVC_ID">
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:maxLength value="15"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

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```

        </xs:restriction>
        </xs:simpleType>
    </xs:element>
    </xs:element>
    <xs:element name="STRT_ACTVTY_NBR">
        <xs:simpleType>
            <xs:restriction base="xs:nonNegativeInteger">
                <xs:totalDigits value="6"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    </xs:element>
    <xs:element name="END_ACTVTY_NBR">
        <xs:simpleType>
            <xs:restriction base="xs:nonNegativeInteger">
                <xs:totalDigits value="6"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    </xs:element>
    <xs:element name="REQ_STS" minOccurs="0">
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="A"/>
                <xs:enumeration value="N"/>
                <xs:enumeration value="R"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:element>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="DTL">
    <xs:complexType>
        <xs:choice>
            <xs:element name="RNM_DTL">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="RNM_DTL_INF" maxOccurs="unbounded">
                            <xs:complexType>
                                <xs:sequence>
                                    <xs:element name="ACTVTY_NBR">
                                        <xs:simpleType>
                                            <xs:restriction base="xs:string">
                                                <xs:maxLength value="6"/>
                                            </xs:restriction>
                                        </xs:simpleType>
                                    </xs:element>
                                    <xs:element name="SF">
                                        <xs:simpleType>
                                            <xs:restriction base="xs:string">
                                                <xs:enumeration value="AF"/>
                                                <xs:enumeration value="OC"/>
                                                <xs:enumeration value=""/>
                                            </xs:restriction>
                                        </xs:simpleType>
                                    </xs:element>
                                    <xs:element name="METER_ID">
                                        <xs:simpleType>
                                            <xs:restriction base="xs:string">
                                                <xs:maxLength value="10"/>
                                            </xs:restriction>
                                        </xs:simpleType>
                                    </xs:element>
                                    <xs:element name="STRT_TM"
                                        type="xs:nonNegativeInteger"/>
                                </xs:sequence>
                            </xs:complexType>
                        </xs:element>
                        <xs:element name="REQ_NRG">
                            <xs:simpleType>
                                <xs:restriction base="xs:long">
                                    <xs:totalDigits value="13"/>
                                </xs:restriction>
                            </xs:simpleType>
                        </xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:choice>
        </xs:complexType>
    </xs:element>

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minOccurs="0">
    </xs:simpleType>
  </xs:element>
  <xs:element name="REQ_STS">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="SCHD_NRG">
    <xs:simpleType>
      <xs:restriction base="xs:long"/>
    </xs:simpleType>
  </xs:element>
  <xs:element name="SCHD_STS" minOccurs="0">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="NO_OF_STPS">
    <xs:simpleType>
      <xs:restriction base="xs:int"/>
    </xs:simpleType>
  </xs:element>
  <xs:element name="OPP_FL">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="FRST_NM">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:maxLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ENRGY_TOTLS">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="REQ_NRG_TOT">
        <xs:simpleType>
          <xs:restriction base="xs:long"/>
        </xs:simpleType>
      </xs:element>
      <xs:element name="SCHD_NRG_TOT">
        <xs:simpleType>
          <xs:restriction base="xs:long"/>
        </xs:simpleType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="NO_OF_ACTVTS">
  <xs:simpleType>
    <xs:restriction base="xs:int">
      <xs:totalDigits value="6"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:sequence>

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```
</xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```

1.4 API Specific Error Messages

This API can return the following specific error 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.

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

Table 1 - API Specific Error Messages

Message Code	Message
GEM_API_ERROR_0050	Start Activity Number cannot be greater than End Activity Number

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2 Document Control

2.1 Superseded Documents

Title	Reference	Version	Date
Gemini – API Specification for Energy Balancing and Exit Capacity Release	4021	1	21-Oct-2004

2.2 Version History

Version	Status	Date	Author(s)	Summary of Changes
Prior version history removed for brevity				
1	Approved	20-Jan-2005	NGT IS	Baseline approved at January 2005 UK-Link Committee.
2	For Representation	03-Feb-2005	NGT IS	Cardinality (*) indicator added to element tables.
2	For Representation	15-Feb-2005	NGT IS	Changes following NGT internal review as follows: <ul style="list-style-type: none"> - Section reference to API Usage Guidelines document for generic error messages corrected. - Error message “Invalid Service Id for the BA” removed. No longer applicable.
2	Approved	17-Mar-2005	NGT IS	Approved at UK-Link Committee.
3	For Approval	29-Sep-2005	National Grid IS	Exclusion of renominations for NDM meters that was requested by and ratified by the Gemini Shipper Working Group noted.