

# Gemini API Specification

## *Update INS Nominations*

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Owner:	<b>National Grid O&amp;T</b>
Document Reference:	<b>4044</b>
Version:	<b>3</b>
Status:	<b><u>For Representation</u></b>
Date:	<b><u>07 September 2005</u></b>

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## 1 API Specification

### 1.1 Overview

Using this API, a BA can add INS Nominations for a set of gas days. The BA can also use this API to modify the existing INS Nominations.

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/UpdateINSNominationsControllerAPI/`

URL for Request XSD

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

`/gemini/api/schema/geminiapiupdateinsnominationsreq.xsd`

URL for Response XSD

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

`/gemini/api/schema/geminiapiupdateinsnominationsres.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.

#### 1.3.1 API Request

Element Table

Hierarchy	Data Element	Description	Data Type	Data Length	Mandatory

0	UPDT_INS_NMS	Top level hierarchy for update elements			
1*	UPDT_INS_NMS_DTLS	Top level hierarchy for update detail elements			
2	GAS_DAY	Gas day for which the INS Nominations are to be updated.	Date	10	Yes
2	PROJ_EOD_IMBAL	This is a positive or negative value, which indicates the intended end of the day imbalance (or INS Nomination) in kWh	Long	13	Yes
2	RSN	This field is used for entering the reason (if any) for modifying an existing INS Nomination However, if a reason is provided for a new INS Nomination record, the field will be ignored and will not be updated into the system for the new record. If the field is omitted during modification, then the system will insert a default reason - 'Record modified'	String	255	No

## Schema Definition

**Name of file:** geminiapiupdateinsnominationsreq.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="UPDT_INS_NMS">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="UPDT_INS_NMS_DTLS" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="GAS_DAY" type="xs:date"/>
              <xs:element name="PROJ_EOD_IMBAL">
                <xs:simpleType>
                  <xs:restriction base="xs:long">
                    <xs:totalDigits value="13"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
              <xs:element name="RSN" minOccurs="0">
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:whiteSpace value="replace"/>
                    <xs:minLength value="1"/>
                    <xs:maxLength value="255"/>
                  </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	Description	Data Type	Data Length
0	UPDT_INS_NMS_OUT	Top level hierarchy for update elements		
1	METADATA	Top level hierarchy for meta information elements		
2	TMSTMP	Time stamp of API access	DateTime	19
1*	UPDT_INS_NMS_DTLS	Top level hierarchy for detail information elements		
2	GAS_DAY	Gas Day for which the INS Nominations are to be updated.	Date	10
2	PROJ_EOD_IMBAL	This is a positive or negative value, which indicates the intended End Of Day Imbalance (or INS Nomination) in kWh provided by the BA or as applied by the system. Positive value of INS Nomination will indicate that the BA intends to over deliver gas. Negative value will indicate an under delivery of gas.	Long	13
2	RSN	This field is used for providing the reason (if any) for modifying an existing INS Nomination	String	255
2	STS	The status of the records The permissible values are: S - Success F - Failure	String	1
2	MSG_CD	This field provides a unique message code	String	18
2	MSG_DESC	This field gives the description for the message code specified. If a record is successful it indicates the same. In case if a record has failed, it gives the reason for failure of the record.	String	400

### Schema Definition

*Name of file:* geminiapiupdateinsnominationsres.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="UPDT_INS_NMS_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="UPDT_INS_NMS_DTLS" minOccurs="0" maxOccurs="unbounded">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="GAS_DAY" type="xs:date"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

```

<xs:element name="PROJ_EOD_IMBAL" type="xs:long"/>
<xs:element name="RSN" type="xs:string"/>
<xs:element name="STS" type="xs:string"/>
<xs:element name="MSG_CD" type="xs:string"/>
<xs:element name="MSG_DESC" type="xs:string"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

## 1.4 API Specific 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_0077	The INS Nomination for this gas day is already being updated
GEM_API_ERROR_0078	INS Nomination creation time elapsed
GEM_API_ERROR_0079	The Gas Day not within Current Nomination period
GEM_API_ERROR_0080	The record is being modified by another user
GEM_API_MSG_0081	This record has been successfully added
GEM_API_MSG_0082	This record has been successfully modified

## 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
<b>Prior version history removed for brevity</b>				
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: - Section reference to API Usage Guidelines document for generic error messages corrected.
2	Approved	17-Mar-2005	NGT IS	Approved at UK-Link Committee.
3	For Representation	07-Sep-2005	National Grid IS	Corrections highlighted during Gemini trials as follows: - Superfluous “s” in URL in section 1.3.2  Also, references to NGT changed to National Grid.
3	<u>For Approval</u>	<u>29-Sep-2005</u>	<u>National Grid IS</u>	<u>No representation comments received. Submitted “For Approval” without further modification.</u>