

# Gemini API Specification

## *System Status Information*

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## 1 API Specification

### 1.1 Overview

This API allows the BA to view the System Status information for the current System Date.

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/SystemStatusInfoControllerAPI/

URL for Request XSD

N/A

URL for Response XSD

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

/gemini/api/schema/geminiapisystemstatusinfores.xsd

### 1.3 XML Specifications

#### 1.1.1 API Request

Element Table

**None**

Schema Definition

**None**

### 1.1.2 API Response

#### Element Table

Hierarchy	Data Element	Description	Data Type	Data length
0	<b>STS_OUT</b>	<b>Top level hierarchy for output elements</b>		
1	<b>METADATA</b>	<b>Top level hierarchy for meta information elements</b>		
2	<b>TMSTMP</b>	Time stamp of API access	DateTime	19
1	<b>DTL</b>	<b>Top level hierarchy for detail.</b>		
2	<b>SYS_STS_INFO</b>	<b>Top level hierarchy for the record elements</b>		
3	<b>UPDT_TIME</b>	The latest time when the System Status details were updated. This will be of the format hh:mm:ss	Time	8
3	<b>CLNDR_DAY</b>	The current Calendar Day	Date	10
3	<b>CURR_DMND</b>	The current forecast for the EOD demand (Mcm)	Float	4,1
3	<b>OPN_LNPK</b>	The linepack at the start of the <b>Calendargas</b> day (Mcm)	Float	4,1
3	<b>PCLP1</b>	Projected Closing Line pack 1 (Mcm)	Float	4,1
3	<b>PCLP2</b>	Projected Closing Line pack 2 (Mcm)	Float	4,1
3	<b>SAP</b>	System Average Price (p/kWh)	Float	6,4
3	<b>SMP_BUY</b>	System Marginal Price Buy (p/kWh)	Float	6,4
3	<b>SMP_SELL</b>	System Marginal Price Sell (p/kWh)	Float	6,4
3	<b>LNPK_CMNT</b>	Additional details related to the Status Information	String	400

#### Schema Definition

*Name of file:* geminiapisystemstatusinfores.xsd

```
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="STS_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:choice>
                            <xs:element name="SYS_STS_INFO">
                                <xs:complexType>
                                    <xs:sequence>
                                        <xs:element name="UPDT_TIME" type="xs:time"/>
                                        <xs:element name="CLNDR_DAY" type="xs:date"/>
                                        <xs:element name="CURR_DMND" type="xs:float"/>
                                        <xs:element name="OPN_LNPK" type="xs:float"/>
                                        <xs:element name="PCLP1" type="xs:float"/>
                                        <xs:element name="PCLP2" type="xs:float"/>
                                    </xs:sequence>
                                </xs:complexType>
                            </xs:element>
                        </xs:choice>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>
```

```

minOccurs="0"/>
minOccurs="0"/>
minOccurs="0"/>
<xs:element name="SAP" type="xs:float"
<xs:element name="SMP_BUY" type="xs:float"
<xs:element name="SMP_SELL" type="xs:float"
<xs:element name="LNPK_CMNT">
<xs:simpleType>
<xs:restriction base="xs:string">
<xs:maxLength value="400"/>
</xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>

```

## 1.4 API Specific Error Messages

**None**

## Document Control

### *Superseded Documents*

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

### *Version History*

Version	Status	Date	Author(s)	Summary of Changes
1	For Representation	26-Nov-2004	NGT IS	Baseline version generated from contents of superseded document.
1	For Representation	09-Dec-2004	NGT IS	References to URL for request schema removed, as there isn't one.
1	For Representation	14-Dec-2004	NGT IS	Completion of internal review. Ready for UK-Link submission.
1	For Approval	14-Jan-2005	NGT IS	Prepared for approval following representation. Changes as follows: - minOccurs=0 added to SAP, SMP_BUY & SMP_SELL in response XSD - UPDT_TIME format in response changed from HH:MM to HH:MM:SS
1	Approved	20-Jan-2005	NGT IS	Approved without further changes at UK-Link Committee.
2	For Representation	06-Feb-2006	xoserve IS	Reference to "Gas Day" corrected to "Calendar Day" in OPN_LNPK element description.