

Gemini API Specification

View WCF/SF Values

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Author (for this version):	National Grid IS
Owner:	National Grid O&T
Document Reference:	4051
Version:	3
Status:	<u>For Representation For Approval</u>
Date:	<u>07 September 2005</u> <u>29 September 2005</u>

Table of Contents

1	API Specification	3
1.1	Overview	3
1.2	API URLs.....	3
1.3	XML Specifications	3
1.3.1	API Request	<u>43</u>
1.3.2	API Response	4
1.4	API Specific Error Messages	<u>65</u>
2	Document Control	<u>76</u>
2.1	Superseded Documents	<u>76</u>
2.2	Version History.....	<u>76</u>

1 API Specification

1.1 Overview

This API retrieves Weather Correction Factor (WCF) and the Scaling Factor (SF) Values (both Forecast and Allocated) for each LDZ for the gas day requested.

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/ViewWCFSFValuesControllerAPI/`

URL for Request XSD

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

`/gemini/api/schema/geminiapiviewwcfsfvaluesreq.xsd`

URL for Response XSD

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

`/gemini/api/schema/geminiapiviewwcfsfvaluesres.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	VW_WCF_SF_VAL_QRY	Top level hierarchy for View WCF/SCF Values elements			
1	GAS_DAY	The Gas Flow Day for which the details are to be retrieved.	Date	10	Yes
1	LDZ	The two character LDZ code. If omitted then data for all LDZs is retrieved.	String	2	No

Schema Definition

Name of file: geminiapiviewwcfvaluesreq.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="VW_WCF_SF_VAL_QRY">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="GAS_DAY" type="xs:date"/>
        <xs:element name="LDZ" minOccurs="0">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:length value="2"/>
            </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_WCF_SF_VAL_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_WCF_SF_VAL_QRY	Top level hierarchy for query elements		
2	GAS_DAY	The Gas Flow Day for which the details are to be retrieved.	Date	10
2	LDZ	The two character LDZ code. If LDZ is left blank then all the records are retrieved.	String	2
1	DTL	Top level hierarchy for header fields.		
2*	WCF_SF_DTL	Top level hierarchy for the WCF_SF Detail Elements		
3	LDZ	This field gives the combination of the two character LDZ code along	String	205

		with the LDZ name. This field will be of the format 'LDZ Id – LDZ name' For eg: 'EA – EASTERN LDZ' The first two characters is the two character LDZ code i.e EA. This is followed by the LDZ name (maximum of 200 characters) starting from the 6 th character i.e EASTERN LDZ.		
3	ALLCTD_FCAST	Indicates whether the retrieved WCF/SF is an allocation or a forecast value. A - indicates allocated values F - indicates forecast values	String	1
3	WCF	The Weather Correction Factor for the LDZ.	Float	8,4
3	SCLNG_FCTR	The scaling factor for the LDZ.	Float	14,10
3	CRT_DT	The Date on which the WCF and SF values are calculated.	Date	10
3	CRT_TM	The time at which the WCF and SF values are calculated This will be of the format hh:mm	String	5

Schema Definition

Name of file: geminiapiviewwcfssfvaluesres.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="VW_WCF_SF_VAL_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_WCF_SF_VAL_QRY">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="GAS_DAY" type="xs:date"/>
              <xs:element name="LDZ" type="xs:string" minOccurs="0"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="DTL">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="WCF_SF_DTL" minOccurs="0"
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="LDZ" type="xs:string"/>
                    <xs:element name="ALLCTD_FCAST" type="xs:string"/>
                    <xs:element name="WCF" type="xs:float"/>
                    <xs:element name="SCLNG_FCTR" type="xs:float"/>
                    <xs:element name="CRT_DT" type="xs:date"/>
                    <xs:element name="CRT_TM" type="xs:string"/>
                  </xs:sequence>
                </xs:complexType>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:schema>

```

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

1.4 *API Specific Error Messages*

None

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	Approved	17-Mar-2005	NGT IS	Approved at UK-Link Committee.
3	For Representation	07-Sep-2005	National Grid IS	<p>Corrections highlighted during Gemini trials as follows:</p> <ul style="list-style-type: none"> - Clarification in description of LDZ request parameter in section 1.3.1. <p>Also, references to NGT IS changed to National Grid IS.</p>
<u>3</u>	<u>For Approval</u>	<u>29-Sep-2005</u>	<u>National Grid IS</u>	<u>No representation comments received. Submitted "For Approval" without further amendment.</u>