

Gemini API Specification

Capacity Trading - Reject Trade API

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1 API Specification

1.1 Overview

This API provides the Business Associates to reject a trade that has already been registered but not been withdrawn by the selling shipper. The buying shipper can reject the trade registered by the selling shipper within the trade window. If the buying shipper does not reject trade within elapsed or trade window, the trade will be timed out. At the end of it, it provides the information to business associate with the result of the trade status i.e. rejected successful or not.

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/RejectTradeControllerAPI.java

URL for Request XSD

The XSD found at this URL can be used to validate the request XML format:
/gemini/api/schema/geminiapitraderejectreq.xsd

URL for Response XSD

The XSD found at this URL can be used to validate the response XML format:
/gemini/api/schema/geminiapitraderejectres.xsd

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1.3 XML Specifications

1.3.1 API Request

Element Table: INPUT

Hierarchy	Data Element	Screen Label	Description	Data Type	Data Length	Mandatory
0	CPCTY_TRD_REJ_INP	Top level hierarchy for field elements				
1	TRD_REF_NMBR	Trade Reference	The trade reference number generated by the system when the trade is registered (used for re-trading)	String	15	Y

Schema Definition

Name of file: geminiapitraderejectreq.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name=" CPCTY_TRD_REJ_INP ">
    <xs:complexType>
      <xs:sequence>
        <xs:element name=" TRD_REF_NMBR ">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:minLength value="1"/>
              <xs:maxLength value="15"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

1.3.2 API Response

Element Table: OUTPUT

Hierarchy	Data Element	Screen Label	Description	Data Type	Data Length
0	CPCTY_TRD_REJ_OUT	Top level hierarchy for output elements			
1	METADATA	Top level hierarchy for meta information elements			

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2	TMSTMP		Timestamp of API access.	DateTime	19
1	CPCTY_TRD_REJ_INP	Top level hierarchy for input elements			
2	TRD_REF_NMBR	Trade reference	The trade reference number generated by the system when the trade is registered (used for re-trading)	String	15
1	DTL	Top-level hierarchy for details.			
2	SELL_BA	Selling BA	Business Associate short code of the Business Associate who sells the trade	String	3
2	BUY_BA	Buying BA	Business Associate short code of the Business Associate who buys the trade	String	3
2	TRD_REF_NMBR	Trade Reference	Trade Reference	String	15
2	TRD_TM	Time Of Registration	Time of Registration of Trade	DateTime	19
2	LCTN	Location	Location Code	String	10
	TRD_QTY	Trade Qty(kWh)	The quantity of capacity being traded. (kWh)	Long	13
2	TRD_PRC	Trade Price(p/kWh)	Unit price for the trade being done between Business Associates. (p/kWh)	Float	6,4
2	PRD_FRM	Period From	Trade start Date	Date	11
2	PRD_TO	Period To	Trade end Date	Date	11
2	TRD_STS	Status	Status of the trade	String	3
2	MSG	-	The Message to be shown to Business Associate. E.g. Trade Reference XXXXXXXX rejected successfully	String	60

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Output schema Definition

Name of file: geminiapitraderejectres.xsd

```

<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name=" CPCTY_TRD_REJ_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=" CPCTY_TRD_REJ_INP ">
          <xs:complexType>
            <xs:sequence>
              <xs:element name=" TRD_REF_NMBR ">
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:minLength value="1"/>
                    <xs:maxLength value="15"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="DTL">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="SELL_BA">
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:length value="3"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
              <xs:element name="BUY_BA">
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:length value="3"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

```

</xs:element>
<xs:element name="TRD_REF_NMBR">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="15"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TRD_TM" type="xs:dateTime"/>
<xs:element name="LCTN">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="10"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TRD_QTY">
  <xs:simpleType>
    <xs:restriction base="xs:long">
      <xs:totalDigits value="13"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="TRD_PRC" type="xs:float"/>
<xs:element name="PRD_FRM" type="xs:date"/>
<xs:element name="PRD_TO" type="xs:date"/>
<xs:element name="TRD_STS">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:length value="3"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
<xs:element name="MSG">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:maxLength value="60"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:sequence>
</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_0210	Registered Trade does not exist.
GEM_API_ERROR_0211	Unauthorized operation for this trade.
GEM_API_ERROR_0213	Only buying Business Associate can reject trade.

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2 Document Control

2.1 *Superseded Documents*

Title	Reference	Version	Date
None	None	None	None

2.2 *Version History*

Version	Status	Date	Author(s)	Summary of Changes
1	For Review	05-Dec-2005	Wipro Technologies	Initial version developed for GPIN0055

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