

DESCRIPTION OF THE FORMATS OF INFORMATION EXCHANGE BETWEEN MIBGAS AND AGENTS

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1. CHANGE CONTROL

Version 1	First version
Version 1.1	Corrections in schemas: Section 4.4.1: - Change of the structure of parameters in the “IdQuery” element. - Elimination of the elements “Section” and “Confidentiality” in the “Restrictions” element Section 4.4.3 - Change of the parameter structure in the “File” element.
Version 2.1	Layout according to the new corporate image of MIBGAS
Version 2.2	New services and schemas for sending Privileged Information / UMM Messages: Sections 3.4 and 4.4
Version 2.3	UMM schema update Sections 3.4 and 4.4
Version 2.4	Section “2.2 Architecture and communications”
Version 2.5	Section “5.2 Download billing documents” Update of available documents and request codes

2. INTRODUCTION

2.1 Purpose of the document

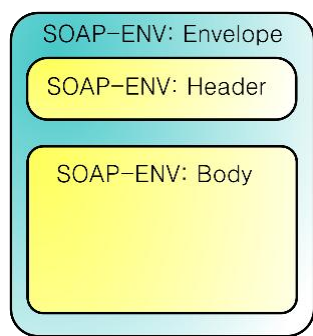
This document describes the information exchange formats between MIBGAS and the Gas Market Agents. The objective is to list and describe in detail the exchange formats available to Market Agents.

2.2 Architecture and communications

The implementation of communication interfaces for information requests is carried out through Web Services, which use the SOAP protocol over HTTPS in a unidirectional manner, allowing MIBGAS services to be invoked by market participants.

SOAP (Simple Object Access Protocol) is a standard protocol that defines how a sender and a receiver can communicate by exchanging data in XML format. This XML document has a structure consisting of the following parts:

- Envelope: root of the structure, this is the part that identifies the SOAP message as such.
- Header: extension mechanism with information on how the message should be processed.
- Body: contains information about the call and the response.
- Fault: information about errors that occurred during message processing (if any). It is part of the response message.

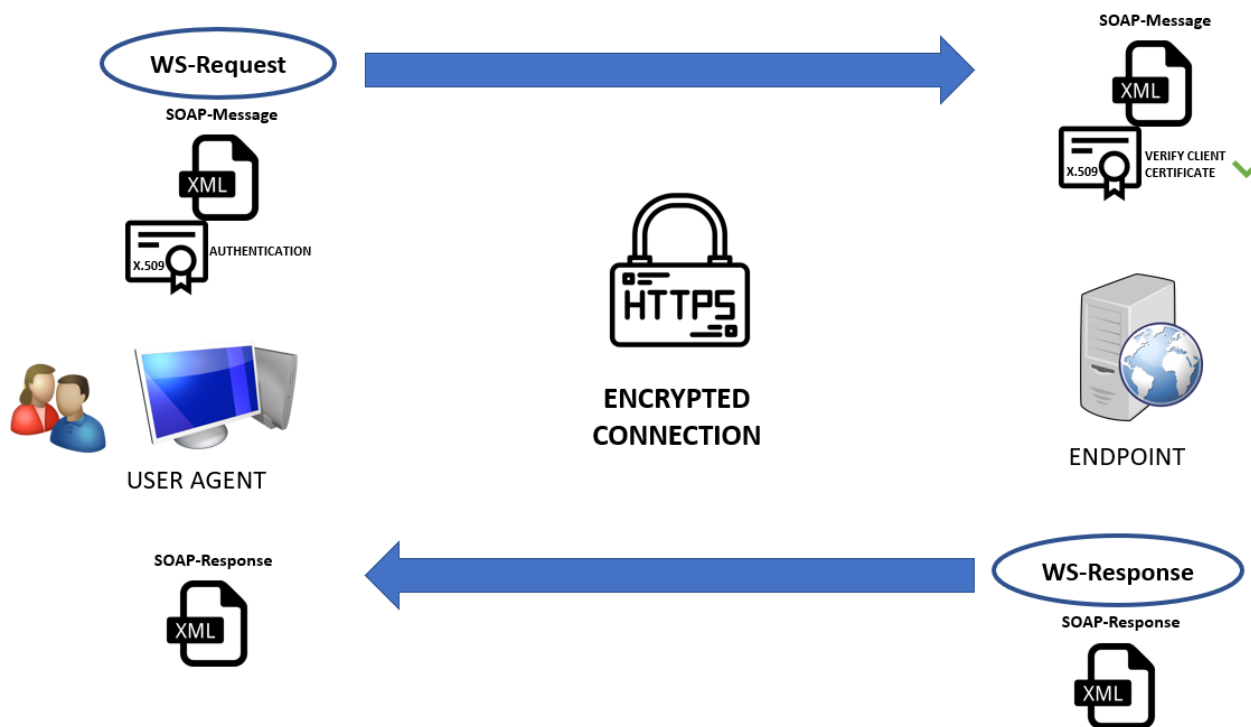


The communication interface implemented in MIBGAS ensures the security, confidentiality, integrity, and authentication of the information sent, establishing the following mechanisms:

- Communication is carried out using the secure HTTPS protocol to ensure the confidentiality and encryption of the information exchanged.
- Additionally, in order to ensure the authentication and integrity of the invocations and responses of the MIBGAS Web Services, authentication using X.509 certificates is used. In the case of sending information (not requests), the transmission must be signed with the same certificate.

Therefore, in order to establish communication via Web Services on the MIBGAS platform, **authentication via a personal certificate with at least request permissions on the platform** is essential. Agents can request this certificate, which will be **issued by MIBGAS**. Depending on the permissions assigned to this certificate, it can also be used to consult the MIBGAS platform via the web, modify agent data or insert orders on the platform.

The following diagram shows the security features and the different stages performed by the agent system and the MIBGAS platform to establish SOAP communication:



1. The agent system attaches an X509 client certificate to the SOAP request to authenticate the message.
2. The SOAP message is sent through the encrypted HTTPS communication channel.
3. The MIBGAS platform server collects the SOAP request and verifies the client certificate received to authenticate the message received.
4. Once the request has been processed by the corresponding MIBGAS Web Service, it sends a SOAP response to the Agent system.
5. The agent system collects the SOAP response and processes the message.

Additional considerations to take into account when establishing communication::

1. MIBGAS has 2 **endpoints** or URLs that users can invoke:
 - a. Pre-production endpoint, for testing purposes:
<https://www.preprod.market.mibgas.es/jsiom/webServices/SIOMServiceRouter>
 - b. Production endpoint, for requesting market information:
<https://www.market.mibgas.es/jsiom/webServices/SIOMServiceRouter>
2. Both endpoints are constantly monitored to prevent misuse or abuse, and MIBGAS reserves the right to take appropriate action in such cases to preserve the stability of its platform.

3. Communication between the agent's system and the MIBGAS platform will be authenticated using a **certificate generated by MIBGAS**, using the **HTTPS** protocol with a minimum encryption protocol of **TLS 1.2**. All communications will be synchronous and therefore all messages sent will have an ACK response sent by the receiver.
4. In the event that the agent sends **information** via Web Services (e.g. UMM), such transmissions must be signed with the same certificate that is being used for authentication..
5. MIBGAS makes the **schema files** (.XSD) and **description of its services** (.WSDL) available to agents on the help page of its Registration and Request platform: <https://www.market.mibgas.es> > Help and Documentation > Access via Web Services > Documentation.

2.3 Document structure

Chapter 3 describes the available Web Services, indicating their purpose and functionality, and referencing the XML request and response formats used.

Chapter 4 describes the XML exchange formats available for use through Web Services or query through the Agents Web (www.market.mibgas.es).

3. SERVICES

3.1 General query services

3.1.1 Introduction

General queries include a broad set of available queries that have been implemented through a common mechanism. That mechanism allows the invocation in a homogeneous way for all of them, simplifying both the inclusion of new queries in the system and their integration into the information systems of the agents.

This mechanism is based on the following operating structure:

- » A query is characterised by a code, a title, a set of invocation parameters, and the description of the response that will be obtained when executing the query (which can be a set of columns that will be included in each row resulting from the execution of the query, or data formatted in XML or in a free-format attached file).
- » There are three main types of queries, depending on the format of the result to be obtained:
 - » Columnar: The result is obtained in the form of rows and columns, according to a specific XML schema. These queries correspond to the information in column form of the windows available on the Agents Web, as well as the queries used internally by other modules (such as the download module).
 - » Attached file: The result is obtained in the form of an attached file in different formats (initially, PDF and XML). These queries correspond to some of those available from the Automatic and manual Download of files.
 - » Market results format: The result is in XML format, but it does not correspond to the rows and columns format, but is based on the formats used in MIBGAS for market results (such as prices, trades and annotations). These queries are those available from the Automatic and manual Download of files in XML format.

Described below are the services available to retrieve the complete directory of queries available, to consult the configuration details of a query or execute a query, indicating the values of its invocation parameters.

3.1.2 Query Directory

Service Name	ServicioConsultaDirectorioConsultas		
Service description	This service enables the user to query the list of all the general queries available for invocation by Web Services.		
Invocation format	No invocation data	Signed transaction	NO
Data processing	Retrieval of the complete list of general queries available for invocation by Web Services.		
Response format	RespuestaDirectorioConsultas.xsd		
Response data content			
For each of the available queries: • Query code • Query title • Type of query (columnar, results, attached file).			

3.1.3 Characteristics of a query

Service Name	ServicioConsultaConfiguracionConsulta		
Service description	This service allows the user to query the configuration of a general query, through its query code.		
Invocation format	CodConsulta (basic type)	Signed transaction	NO
Invocation data content	Query code.		
Data processing	Validation of the current state of the query (existing and accessible query code) and, where appropriate, recovery of the query characteristics.		
Response format	RespuestaConfiguracionConsulta.xsd		
Response data content			
In the case of XML format or query status validation, a single error code and message will be returned, describing the error. Otherwise, the full characteristics of the requested query will be returned: ▪ Query code ▪ Query title ▪ Section to which the query belongs ▪ Type of query (columnar, results or attached file) ▪ For each of the query parameters: ○ Parameter code ○ Parameter name ○ Parameter type (numeric, alphanumeric, date, picklist, etc.) ○ Possible values for a “picklist” type parameter ○ Maximum length of the value for the parameter ○ Indicative of the possibility of using a wildcard (“*”) as a parameter ▪ For each of the columns of the query (if it is of the “columnar” type): ○ Column code ○ Column name ○ Column type (numeric, alphanumeric, date, timestamp, time) ○ Maximum length in characters of the column content. ○ XML tag to use in the response for that column. ○ Indicative of “aggregate” value (indicating that the result will be displayed only once for the entire query, and not once for each record of the result).			

3.1.4 Execution of queries in columnar format

Service Name	ServicioEjecucionConsultaEncolumnada		
Service description	This service allows the execution and retrieval of the results of a general query defined as a “columnar” type.		
Invocation format	MensajeEjecucionConsulta.xsd	Signed transaction	NO
Invocation data content	Query code and values for the query parameters.		
Data processing	Validation of the status of the query (existing query code) and, where appropriate, execution of the query, applying the confidentiality rules, and compilation of its results.		
Response format	RespuestaEjecucionConsultaEncolumnada.xsd		
Response data content			
In case of an error in XML format or validation of the query status, a single error code and message will be returned, describing the error. Otherwise, the following will be returned: ▪ The query execution parameters ▪ The results of the query in XML format, identifying its rows and columns.			

3.1.5 Execution of queries to an attached file

Service Name	ServicioEjecucionConsultaAnexo		
Service description	This service allows the execution and retrieval of the results of a general query defined as “attached” type.		
Invocation format	MensajeEjecucionConsulta.xsd	Signed transaction	NO
Invocation data content	Query code and values for the query parameters.		
Data processing	Validation of the status of the query (existing query code) and, where appropriate, execution of the query, applying the confidentiality rules, and generation or collection of the attached file.		
Response format	RespuestaEjecucionConsultaAnexo.xsd		
Response data content			
In case of an error in XML format or validation of the query status, a single error code and message will be returned, describing the error. Otherwise, it will be returned: ▪ The identification of the file, in XML format ○ File name ○ File size ○ Date and time of the file ▪ The file as an attachment to the request.			

3.1.6 Execution of queries in the Market Results format

Service Name	ServicioEjecucionConsultaResultados		
Service description	This service allows the execution and retrieval of the results of a general query defined as "results" type.		
Invocation format	MensajeEjecucionConsulta.xsd	Signed transaction	NO
Invocation data content	Query code and values for the query parameters.		
Data processing	Validation of the status of the query (existing query code) and, where appropriate, execution of the query, applying the confidentiality rules, and compilation of its results.		
Response format	Several types of response format are permitted, according to the information requested and the result of the execution: MessagePricesMIBGAS.xsd (for price queries by session) MessageTransactionsMIBGAS.xsd (for transaction queries by session) MessageAnnotationsMIBGAS.xsd (for annotation queries by session)		
Response data content			
In case of an error in XML format or validation of the query status, a single error code and message will be returned, describing the error.			
Otherwise, the query results will be returned in XML format corresponding to the result that applies to the specific query.			

3.2 Auxiliary query services for automating downloading results

3.2.1 Reference of the possible types of results files per session to be notified

Service Name	ServicioConsultaTiposFicheros		
Service description	This service provides the list of the possible types of files that the MO publishes periodically with the results by session of the markets and settlements, along with the information necessary to download each of them.		
Invocation format	TipoDescarga (basic type)	Signed transaction	NO
Invocation data content	Download type (Automatic or Manual)		
Data processing	Compilation of the possible types of files with periodic publication and notified from the MO server. The information necessary to automate the download of the data from a client module is included for each file.		
Response format	RespuestaTiposFicheros.xsd		
Response data content	In the event of an identity, authorisation or XML format error, a single error code and message will be returned, describing the error. Otherwise, the data on the types of files that the MO publishes and notifies periodically will be returned. For each type of file: ▪ File description ▪ File pattern (for example "Prices_") ▪ Rest of the file name (for example "YYYYMMDD.XML") ▪ Query number ▪ Type of query (Results or Attached) ▪ Parameter number for date ▪ Parameter number for the session ▪ Parameter number for version ▪ Section indicative (initially, only "Market") ▪ Manual downloading indicator (Yes or No) ▪ Automatic downloading indicator (Yes or No) ▪ Maximum number of files ▪ Query confidentiality (Public or Confidential by Agent)		

3.2.2 Notification of new available files of session results

Service Name	ServicioConsultaNuevosFicheros		
Service description	This service provides the list of new session results files, published from a specific moment (represented by a sequential number).		
Invocation format	MensajeFicherosNuevos.xsd	Signed transaction	NO
Invocation data content	List of types (patterns) of files to be notified, and sequential number of the last file received.		
Data processing	Compilation of the files published on the MIBGAS server, with a sequential number greater than that indicated by the client, and whose type is within those specified by the client. If the indicated sequencer is zero or a value very far from the last one published, the files published in the last 28 hours will be provided.		
Response format	RespuestaFicherosNuevos.xsd		
Response data content	In the event of an identity, authorisation or XML format error, a single error code and message will be returned, describing the error. Otherwise, it will be returned: ▪ The sequential number of the file to which the client has been updated after making this request. ▪ The list of newly published files. For each of them: ○ Full name of the file ○ Publication date of the file ○ File pattern ○ Date of the session associated with the file ○ Session number associated with the file ○ File version		

3.2.3 Notification of new billing files available

Service Name	ServicioConsultaNuevosFicherosFact		
Service description	This service provides the list of new billing files, and other electronically signed documents, published from a specific moment (represented by a sequential number and a publication date).		
Invocation format	MensajeFicherosNuevosFact.xsd	Signed transaction	NO
Invocation data content	List of scope of the files to be notified (FACTSEM, REMIT, etc.), and sequential number and date of publication of the last file received. See section 5.2 to query the list of possible scope and their codes.		
Data processing	Compilation of files published on the server, with a sequential number or a publication date greater than that indicated by the client, in which the agent appears as sender, receiver or consolidator, and whose area is within those specified by the client. If the sequencer and the date indicated are null, or values that are very far from the last ones published, the files published in the last 2 days will be provided.		
Response format	RespuestaFicherosNuevosFact.xsd		
Response data content	In the event of an identity, authorisation or XML format error, a single error code and message will be returned, describing the error. Otherwise, it will be returned: ▪ The last sequential number that the client updated to after making this call. ▪ The list of newly published files. For each of them: ○ Full name of the file ○ File scope ○ Code of the agent that appears as issuer in the file ○ Code of the agent that appears as recipient in the file ○ Code of the agent that appears as consolidator in the file ○ Type of document (Gas Sales Invoice, Gas Purchase Invoice, Detail Note, etc.) ○ Indicative of whether there is a document in XML format ○ Indicative of whether there is a document in PDF format ○ Publication date of the file		

3.3 Query Services for submission and received exchanged with ACER

3.3.1 Query service for submission and received of REMIT data exchanged with ACER in XML format

Service Name	ServicioDescargaREMIT		
Service description	This service returns the data of the agent that has been reported to ACER by MIBGAS, or the data of the receipt obtained from ACER with the result of the validations of each shipment.		
Invocation format	MensajeServicioDescargaREMIT.xsd	Signed transaction	NO
Invocation data content	Message sequence identifier, request type (Send or Receive) and agent code. The values of the sequential message identifier can be obtained through the column query 3200 “Envíos realizados” (see section 3.1 for a description of the general query service), by date of submission. The sequencers appear in the “secmens” and “secresp” columns.		
Data processing	Verification the existence of the requested message and the type of request associated with the message. Verification of whether the Agent has the reporting service valid for the session date reported in the message.		
Response format	RespuestaDescargaREMIT.xsd In addition, an attached will be added with the content of the shipment or receipt in the format defined by ACER (REMITTable1_V2.xsd or REMITReceiptSchema_V1.xsd)		
Response data content			
In case error due to non-existence of the message requested, identity, or validation of the validity of the contract, an error code and message will be returned, describing it.. Otherwise, a response code of value 0 will be returned, as well as the identifier of the message used in the exchange with ACER and an XML attached file with one of the two possible contents: ▪ Agent submission to ACER by MIBGAS ▪ The data of the receipt obtained from ACER with the result of the validation of each order or trade of the agent that was sent.			

3.4 New services for sending Privileged Information / UMM Messages

3.4.1 UMM Gas Messages

Service Name	ServicioAltaMessagesUmmGas		
Service description	This service allows the sending of UMM (Urgent Market Messages) relating to unavailability of Gas Market units, for their verification and insertion in the System, and their publication on the transparency platform.		
Invocation format	REMITUMMGasSchema_V2.xsd	Signed transaction	YES
Data processing	For each of the messages, validation of its content with respect to the current information in the database (agents, previous messages, etc.), and storage of the valid messages.		
Response format	RespuestaREMITUMMGasSchema.xsd		
Response data content			
In the event of an identity, authorisation, signature, XML format or content validation error, a single error code and message will be returned, describing it. Otherwise, it will be returned: ▪ A neutral error code (for example, a zero), with a successful action message. ▪ The total number of messages processed ▪ The number of messages processed successfully ▪ For each message processed ○ An error code (zero for OK) ○ An error message or confirmation of the insertion ○ The message insertion time for successful messages ○ The identifier of the message that will be published to ACER on the transparency platform			

3.4.2 UMM Other Messages

Service Name	ServicioAltaMessagesUmmOther		
Service description	This service allows the sending of UMM (Urgent Market Messages) related to other information on the Gas Market, for their verification and insertion in the System, and their publication on the transparency platform.		
Invocation format	REMITUMMOtherSchema_V1.xsd	Signed transaction	YES
Data processing	For each of the messages, validation of its content with respect to the current information in the database (agents, previous messages, etc.), and storage of the valid messages.		
Response format	RespuestaREMITUMMOtherSchema.xsd		
Response data content	In the event of an identity, authorisation, signature, XML format or content validation error, a single error code and message will be returned, describing it. Otherwise, it will be returned: ▪ A neutral error code (for example, a zero), with a successful action message. ▪ The total number of messages processed ▪ The number of messages processed successfully ▪ For each message processed ○ An error code (zero for OK) ○ An error message or confirmation of the insertion ○ The message insertion time for successful messages ○ The identifier of the message that will be published to ACER on the transparency platform		

3.5 Other services

3.5.1 List of supported languages

Service Name	ServicioConsultaldiomas		
Service description	This service allows the user to query the list of languages supported by the WebServices interface.		
Invocation format	No invocation data	Signed transaction	NO
Data processing	Collection of the list of languages supported by the WebServices interface.		
Response format	RespuestaListadoldiomas.xsd		
Response data content	For each of the supported languages, it will return: - Language code - Language description (in Spanish)		

3.5.2 Selection of the language for the session

Service Name	ServicioSeleccionIdioma		
Service description	This service allows the user the selection of the language for the interface, among the list of languages supported by the WebServices interface.		
Invocation format	SeleccionIdioma (basic type)	Signed transaction	NO
Invocation data content	Desired language code.		
Data processing	Activation of the language selected for the session. Note: If this service is not used, the default language will be Spanish.		
Response format	SeleccionIdioma (basic type)		
Response data content	The response will contain the selected language, as confirmation of correct action.		

3.5.3 Query of active user data

Service Name	ServicioConsultaDatosUsuario		
Service description	This service allows the user to query the basic information of the active user in the session, identified through the digital certificate used in the connection.		
Invocation format	No invocation data	Signed transaction	NO
Data processing	Collection of the data of the Agent to which the connected user belongs and of the certificate in use.		
Response format	RespuestaDatosUsuario.xsd		
Response data content			
▪ Agent Data ○ Code ○ Description ○ Agent profile ▪ Certificate data ○ Code ○ Access profile to the Registry and Queries Platform (Read Only, Read/Write or No Access) ○ Access profile to the Trading Platform (Read Only, Read/Write or No Access) ○ Name, Surname and e-mail address of the holder ○ Validity period of the certificate (Date of registration and expiration) ○ Rights related to access to Agent and Claims data			

3.6 Treatment of responses

3.6.1 Cases of abnormal operation

In normal system operation, the response format of a service will correspond to the format defined as the response schema defined for the service.

However, the following cases of abnormal operation may occur:

- » Server down or response time exceeded: These cases are transport protocol errors (HTTP/HTTPS) so the standard HTTP errors (for example 404) will be obtained in the client module
- » Call format error: If the service invocation schema is not met, a standard SOAP fault structure will be returned, named SOAP:Fault (see description below). In these cases, standard SOAP error codes will be returned, as well as error descriptions in English, since the treatment of this level of error is done through already developed modules (parsers) that are used in the WebServices server of MIBGAS. These types of errors should be understood as protocol errors, similar to HTTP errors.
- » Platform technical errors: In the cases of execution errors (database error, exceptions in the code, memory errors, etc.), these will also be captured in SOAP:Fault format. In most cases, the error descriptions will be in English.
- » Server maintenance or in switch-over: In cases where the server is in a situation of switch-over to the emergency environment, or shut-down for maintenance, the result of the service invocation will be a message in SOAP:Fault format, indicating the specific situation in which the system is in.
- » Processing or validation error in the service: In cases where the invoked service cannot be invoked due to:
 - » authentication errors (client certificate) or integrity errors (digital signature error),
 - » violation of confidentiality rules (unit does not belong to the agent, etc.),
 - » other system logic errors (non-existent order, already cancelled order, non-existent query, etc.),

responses will be returned in SOAP:Fault format, although in this case the error message will be displayed in the language selected for the interface with the MO (by default Spanish).

SOAP client modules that are implemented using specialised SOAP development tools include handling of communications protocol errors as well as SOAP protocol errors.

The following section shows sample responses in SOAP:Fault format.

3.6.2 The SOAP:Fault format

The SOAP-Fault format is a simple data structure to describe execution or data processing errors, including (but not limited to):

- » An error code or faultcode
- » A short descriptive text of the error or faultstring
- » An “actor” associated with the error (optional) or faultactor
- » An additional detail of the error (optional) or detail

Below are some sample response messages in SOAP:Fault format.

Error calling a service:

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <soapenv:Fault xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
      <faultcode xmlns:ns1="http://www.omie.es/Gas/Schemas">
        ns1:ErrorParametros
      </faultcode>
      <faultstring>
        Número de parámetros incorrectos para el servicio
        'ServicioEjecucionConsultaEncolumnada'.
      </faultstring>
    </soapenv:Fault>
  </soapenv:Body>
</soapenv:Envelope>
```

Digital signature error:

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <soapenv:Fault xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
      <faultcode xmlns:ns1="http://www.omie.es/Gas/Schemas">
        ns1:DigitalSignatureError
      </faultcode>
      <faultstring>
        Digital signature not found.
      </faultstring>
    </soapenv:Fault>
  </soapenv:Body>
</soapenv:Envelope>
```

System in maintenance or Switch-over:

```
<?xml version="1.0" encoding="UTF-8"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <soapenv:Body>
    <soapenv:Fault xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
      <faultcode>M-SIS-MANTENIMIENTO</faultcode>
      <faultstring>
        Realizando Tareas de Mantenimiento en el Sistema.
      </faultstring>
    </soapenv:Fault>
  </soapenv:Body>
</soapenv:Envelope>
```

The possible contents that can be received within the SOAP:Fault structure in maintenance or switch-over situations are the following:

- » **M-SIS-MANTENIMIENTO** - “Performing maintenance tasks on the system”, when the system is stopped for maintenance.
- » **M-SIS-CONMUTANDO-EMERGENCIA** - “Switch-over from the Main System to the Emergency System is being performed”, when Switch-over from the main system to the emergency system.
- » **M-SIS-CONMUTANDO-PRINCIPAL** - “Switch-over from the Emergency System to the Main System is being performed”, when Switch-over from the emergency system to the main system.
- » **M-SIS-OPERANDO-EMERGENCIA** - “The operation is taking place in the Emergency System”; in the main system, when operating from the emergency system.
- » **M-SIS-OPERANDO-PRINCIPAL** - “The operation is taking place in the Main System”; in the emergency system, when operating from the main one.

Although SOAP allows more complex error description structures, it has been decided to limit the error content to the elements described in this section, in accordance with the interoperability guidelines defined by WS-I (Web Services Interoperability Organization, <http://www.ws-i.org>).

4. Exchange formats

4.1 Query execution formats

4.1.1 General query directory response

Schema description	
Outline of the directory's response to Available Queries.	
Schema name	RespuestaDirectorioConsultas.xsd
Schema description	
<RespuestaDirectorioConsultas xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<Section v=" Productos">	Section or subsection to which the queries belong.
<Consultas>	Queries within a section.
<CodConsulta v="3101"/>	Query code.
<Titulo v=" Productos en negociación"/>	Query title.
<TipoConsulta v="COLUM"/>	Query type.
</Consultas>	Queries closure.
...	Other queries.
</Seccion>	Section closure.
...	Other sections.
</RespuestaDirectorioConsultas>	Message closure
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <RespuestaDirectorioConsultas xmlns="http://www.omie.es/Gas/Schemas"> <Seccion v="Productos"> <Consultas> <CodConsulta v="3101"/> <Titulo v="Productos en negociación"/> <TipoConsulta v="ENCOL"/> </Consultas> <Consultas> <CodConsulta v="3102"/> <Titulo v="Próximos productos"/> <TipoConsulta v="ENCOL"/> </Consultas> ... </Seccion> ... </RespuestaDirectorioConsultas></pre>	

4.1.2 Query configuration response

Schema description	
Schema response to the configuration of a query.	
Schema name	RespuestaConfiguracionConsulta.xsd
Schema description	
<RespuestaConfiguracionConsulta xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<Cabecera>	Query header data.
<CodConsulta v="3103"/>	Query code.
<Título v="Histórico de Productos"/>	Query title.
<TipoConsulta v="COLUM"/>	Query type.
<Seccion v="Productos"/>	Section or subsection to which the query belongs.
</Cabecera>	Closure of header data.
<Parametros>	Query call parameters.
Below is a list of parameters that may correspond to each of the following structures:	Multiple and optional (none may exist for queries without parameters).
<Txt desc=" Código de producto " long="50" n="cdProd" comodin ="N">	Text type parameter. It includes the following attributes "n": name, "desc" (optional): description, "long": length, "comodin" (optional): wildcard.
<Seleccion>	Possible selection values.
<Valor cod="07" desc="Siete días"/>	Selection value including code and description (optional).
</Seleccion>	Closure of Selection.
...	Other selection values.
</Txt>	Text type parameter closure.
<Num desc="Oferta" long="7" n="Oferta"/>	Numeric type parameter. It includes the following attributes "n": name, "desc" (optional): description, "long": length.
<Fec desc="Fecha sesión" n="FechaSesion"/>	Date type parameter. It includes the following attributes "n": name, "desc" (optional): description.
</Parametros>	Closure of query call parameters.
<Columnas>	Columns resulting from the query.
Below is a list of columns that may correspond to each of the following structures:	Multiple and optional (there may not be any in the case of file queries).
<Txt desc="Producto" agregado="N" long="50" n="cdProd"/>	Text type column. It includes the following attributes "n": name, "desc" (optional): description, "agregado" (optional): aggregate, "long": length.
<Num desc="Último precio" long="20" n="UltPrc"/>	Numeric type column.

		It includes the following attributes “n”: name, “desc” (optional): description, “agregado” (optional): aggregate, “long”: length.
	<code><Fec desc="Día de gas inicial" n="DGasIni"/></code>	Date type column. It includes the following attributes “n”: name, “desc” (optional): description, “agregado” (optional): aggregate.

	<code><Feh desc="Fecha hora Transacción" n="FHTransaccion"/></code>	Date and time type column. It includes the following attributes “n”: name, “desc” (optional): description, “agregado” (optional): aggregate.
	<code><Hor desc="Hora Apertura" n="HoraApertura"/></code>	Time type column. It includes the following attributes “n”: name, “desc” (optional): description, “agregado” (optional): aggregate.
	<code></Columnas></code>	Column closure.
	<code></RespuestaConfiguracionConsulta></code>	Message closure

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<RespuestaConfiguracionConsulta>
  <Cabecera>
    <CodConsulta v="3103"/>
    <Titulo v="Histórico de productos"/>
    <TipoConsulta v="ENCOL"/>
    <Seccion v="Productos"/>
  </Cabecera>
  <Parametros>
    <Fec desc="Dia de gas" n="DiaGas"/>
    <Txt desc="Zona" long="2" n="Zona">
      <Seleccion>
        <Valor cod="ES" desc="España"/>
        <Valor cod="PT" desc="Portugal"/>
      </Seleccion>
    </Txt>
  </Parametros>
  <Columnas>
    <Txt desc="Código de producto" long="50" n="CdProd"/>
    <Txt desc="Descripción" long="100" n="DescProd"/>
    <Fec desc="Día de Gas Inicial" n="DiaGasIni"/>
    ...
  </Columnas>
</RespuestaConfiguracionConsulta>
```

4.1.3 Running General Queries

Schema description	
Query execution schema.	
Schema name	MensajeEjecucionConsulta.xsd
Schema description	
<MensajeEjecucionConsulta xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<CodConsulta v="3101"/>	Query code.
<Parametros>	Query call parameters.
Below is a list of parameters that may correspond to each of the following structures:	Multiple and optional (none may exist for queries without parameters).
<Txt n="CdProd" v=" GDAES_We141105"/>	Text type parameter. It includes the following attributes "n": name, "v": value.
<Num n="Oferta" v="5555"/>	Numeric type parameter. It includes the following attributes "n": name, "v": value.
<Fec n="FechaSesion" v="2015-07-01"/>	Date type parameter. It includes the following attributes "n": name, "v": value.
</Parametros>	Closure of query call parameters.
</MensajeEjecucionConsulta>	Message closure
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <MensajeEjecucionConsulta> <CodConsulta v="3101"/> <Parametros> <Txt n="CdProd" v=" GDAES_We141105"/> <Fec n="FechaSesion" v="2010-01-01"/> ... </Parametros> </MensajeEjecucionConsulta></pre>	

4.1.4 Response to the execution of columnar queries

Schema description	
Response schema to the execution of a columnar query.	
Schema name	RespuestaEjecucionConsultaEncolumnada.xsd
Schema description	
<RespuestaEjecucionConsultaEncolumnada xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<CodConsulta v="3101">	Query code
<Parametros>	Query call parameters with the values used.
Below is a list of parameters that may correspond to each of the following structures:	Multiple and optional (none may exist for queries without parameters).
<Txt n="CdProd" v="GDAES_We141105"/>	Text type parameter. It includes the following attributes "n": name, "v": value.
<Num n="Oferta" v="5555"/>	Numeric type parameter. It includes the following attributes "n": name, "v": value.
<Fec n="FechaSesion" v="2015-07-01"/>	Date type parameter. It includes the following attributes "n": name, "v": value.
</Parametros>	Closure of query call parameters.
<Agregados>	Aggregate values (unique for all rows). Optional.
Below is a list of aggregated values that may correspond to each of the following structures:	Multiple.
<Txt n="Casacion" v="Subasta"/>	Text type aggregate. It includes the following attributes "n": name, "v": value.
<Num n="Oferta" v="1682894"/>	Numeric type aggregate. It includes the following attributes "n": name, "v": value.
<Fec n="FeSesion" v="2015-07-01"/>	Date type aggregate. It includes the following attributes "n": name, "v": value.
<Feh n="Alta" v="2009-12-03T12:56:42"/>	Date and time type aggregate. It includes the following attributes "n": name, "v": value.
<Hor n="HoraApertura" v="16:00:00"/>	Time type aggregate. It includes the following attributes "n": name, "v": value.
</Agregados >	Closure of aggregates.

<Fila>	Rows resulting from the query. Multiple and optional (for the case of query executions without results).
Below is a list of fields for each row that may correspond to each of the following structures:	Multiple.
<Txt n="Casacion" v="Subasta"/>	Text type field. It includes the following attributes "n": name, "v": value.
<Num n="Oferta" v="1682894"/>	Numeric type field. It includes the following attributes "n": name, "v": value.
<Fec n="FeSesion" v="2015-07-01"/>	Date type field. It includes the following attributes "n": name, "v": value.
<Feh n="FePub" v="2015-07-01T12:56:42"/>	Date and time type field. It includes the following attributes "n": name, "v": value.
<Hor n="HoraApertura" v="16:00:00"/>	Time type field. It includes the following attributes "n": name, "v": value.
</Fila>	Closure of row.
...	Other rows.
<Respuesta>	Response to execution in case of error (optional and multiple).
<CodigoRespuesta v="M-SESION-NO-PUBLICADA"/>	Response code.
<TextoRespuesta>La sesión no ha sido publicada</TextoRespuesta>	Descriptive texts of the response (optional and multiple).
...	Other response texts.
</Respuesta>	Closure of response.
...	Other responses.
</RespuestaEjecucionConsultaEncolumnada>	Message closure

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<RespuestaEjecucionConsultaEncolumnada>
  <CodConsulta v="3101"/>
  <Parametros>
    <Txt n="CdZona" v="ES"/>
    <Fec n="FechaSesion" v="2015-07-01"/>
    ...
  </Parametros>
  <Agregados>
    <Feh n="FePub" v="2015-07-01T12:56:42"/>
  </Agregados>
  <Fila>
    <Txt n="CdProd" v="GDAES_We150701"/>
    <Txt n="DsProd" v="Gas Diario España 01/07/2015"/>
    <Num n="UltPrc" v="31.2"/>
    ...
  </Fila>
  <Fila>
    <Txt n="CdProd" v="GDAES_Th150702"/>
    <Txt n="DsProd" v="Gas Diario España 02/07/2015"/>
    <Num n="UltPrc" v="35.7"/>
    ...
  </Fila>
  ...
</RespuestaEjecucionConsultaEncolumnada>
```

4.1.5 Response to the execution of queries to an attached file

Schema description	
Response schema to the execution of a query to an attached file.	
Schema name	RespuestaEjecucionConsultaAnexo.xsd
Schema description	
<RespuestaEjecucionConsultaAnexo xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<CodConsulta v="3191">	Query code
<Parametros>	Query call parameters.
Below is a list of parameters that may correspond to each of the following structures:	Multiple and optional (none may exist for queries without parameters).
<Txt n="NombreArchivo" v="FCG_201540_V_1_MIBGAS_..."/>	Text type parameter. It includes the following attributes "n": name, "v": value.
<Num n="Oferta" v="5555"/>	Numeric type parameter. It includes the following attributes "n": name, "v": value.
<Fec n="FechaSesion" v="2015-07-01"/>	Date type parameter. It includes the following attributes "n": name, "v": value.
</Parametros>	Closure of query call parameters.
<AtributosFicheroAnexo>	Optional.
<Nombre v="FCG_201540_V_1_MIBGAS_....PDF"/>	File name.
<Tamano unidad="Bytes" v="16640"/>	File size indicating units in Bytes.
<Fecha v="2015-07-01"/>	File date.
</AtributosFicheroAnexo>	Closure of aggregates.
...	Other responses.
<Respuesta>	Response to execution in case of error (optional and multiple).
<CodigoRespuesta v="M-FICH-NOEXISTE"/>	Response code.
<TextoRespuesta>El fichero no existe.</TextoRespuesta>	Descriptive texts of the response (optional and multiple).
...	Other response texts.
</Respuesta>	Closure of response.
...	Other responses.
</RespuestaEjecucionConsultaAnexo>	Message closure
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <RespuestaEjecucionConsultaAnexo></pre>	

```
<CodConsulta v="3191"/>
<Parametros>
  <Txt n="NombreArchivo" v=" FCG_201540_V_1_MIBGAS_..."/>
</Parametros>
<AtributosFicheroAnexo>
  <Nombre v="FCG_201540_V_1_MIBGAS_....PDF"/>
  <Tamano unidad="Bytes" v="16640"/>
  <Fecha v="2015-07-01"/>
</AtributosFicheroAnexo>
</RespuestaEjecucionConsultaAnexo>
```

4.2 Market Results Schemas

4.2.1 Prices schema

Schema description		
Prices schema per session		
Schema name		MessagePricesMIBGAS.xsd
Schema description		
<MessagePricesMIBGAS xmlns="http://www.omie.es/Gas/Schemas">		Root element with the reference to the "namespace" of the Gas Market.
	<MessageId v="Prices_20150701"/>	Message identifier.
	<MessageVersion v="2"/>	Message version.
	<MessageDateTime v="2015-07-01T17:00:47"/>	Date and time of publication of the message.
	<TradingDay v="2015-07-01"/>	Date of session.
	<SenderId v="MIBGAS"/>	Sender ID.
	<ReceiverId v="AGE1"/>	Recipient ID.
	<PriceData>	Price data for a product
	<ContractId v="GWDES_We150701"/>	Product code.
	<MessageScope v="CO"/>	Message content. "AU": Includes only auctions, "CO": Includes auctions and continuous contracting.
	<ContractPrices>	Price of the product.
	<ContractType v="AU"/>	Type of cassation. "AU": Auction, "CO": Continuous.
	<AuctionNumber v="1"/>	Auction number, optional, only for "AU".
	<Price v="50.12"/>	Price value
	<TotalQuantity v="5245"/>	Total amount traded at that price.
	<PriceDateTime v="2015-07-01T09:30:47"/>	Date and time the price occurred.
	</ContractPrices>	Product price closure.
	...	Other product prices.
	</PriceData>	Closure of all product prices.
	...	Other products.
	</MessagePricesMIBGAS>	Message closure

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<MessagePricesMIBGAS xmlns="http://www.omie.es/Gas/Schemas">
  <MessageId v="Prices_20150701"/>
    <MessageVersion v="2"/>
    <MessageDateTime v="2015-07-01T17:00:47"/>
    <TradingDay v="2015-07-01"/>
    <SenderId v="MIBGAS"/>
    <ReceiverId v="AGE1"/>
    <PriceData>
      <ContractId v="GWDES_We150701"/>
      <MessageScope v="CO"/>
      <ContractPrices>
        <ContractType v="AU"/>
        <AuctionNumber v="1"/>
        <Price v="50.12"/>
        <TotalQuantity v="5245"/>
        <PriceDateTime v="2015-07-01T09:30:47"/>
      </ContractPrices>
      <ContractPrices>
        <ContractType v="CO"/>
        <Price v="48.32"/>
        <TotalQuantity v="120"/>
        <PriceDateTime v="2015-07-01T09:51:54"/>
      </ContractPrices>
    </PriceData>
    <PriceData>
      <ContractId v="GDAES_Th150702"/>
      <MessageScope v="CO"/>
      <ContractPrices>
        <ContractType v="AU"/>
        <AuctionNumber v="1"/>
        <Price v="51.92"/>
        <TotalQuantity v="4454"/>
        <PriceDateTime v="2015-07-01T09:30:47"/>
      </ContractPrices>
      <ContractPrices>
        <ContractType v="CO"/>
        <Price v="49.12"/>
        <TotalQuantity v="110"/>
        <PriceDateTime v="2015-07-01T09:55:48"/>
      </ContractPrices>
    </PriceData>
  </MessagePricesMIBGAS>
```

4.2.2 Transaction schema

Schema description		
Schema of transactions per session		
Schema name		MessageTransactionsMIBGAS.xsd
Schema description		
<MessageTransactionsMIBGAS xmlns="http://www.omie.es/Gas/Schemas">		Root element with the reference to the "namespace" of the Gas Market.
	<MessageId v="Transactions_20150701"/>	Message identifier.
	<MessageVersion v="2"/>	Message version.
	<MessageDateTime v="2015-07-01T17:00:47"/>	Date and time of publication of the message.
	<TradingDay v="2015-07-01"/>	Date of session.
	<SenderId v="MIBGAS"/>	Sender ID.
	<ReceiverId v="AGE1"/>	Recipient ID.
	<TransactionData>	Product transaction data
	<ContractId v="GWDES_We150701"/>	Product code.
	<MessageScope v="CO"/>	Message content. "AU": Includes only auctions, "CO": Includes auctions and continuous contracting.
	<ContractTransactions>	Product transaction.
	<MarketParticipantId v="AGE1"/>	Agent code.
	<PortfolioId v="PORTFOLIO_AGE1"/>	Trading portfolio code
	<ContractType v="AU"/>	Type of cassation. "AU": Auction, "CO": Continuous.
	<AuctionNumber v="1"/>	Auction number, optional, only for "AU".
	<OrderId v="1234567"/>	Order code
	<TransactionId v="1234567891"/>	Transaction code
	<BuySellIndicator v="S"/>	Purchase or sale indicator. "B": Buy, "S": Sell.
	<Price v="50.12"/>	Price value
	<Quantity v="105"/>	Transaction amount.
	<TransactionDateTime v="2015-07-01T09:30:47"/>	Date and time the transaction occurred.
	</ContractTransactions>	Closure of product transactions.
	...	Other product transactions.
	</TransactionData>	Closure of all product transactions.
	...	Other transactions.
	</MessageTransactionsMIBGAS>	Message closure

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<MessageTransactionsMIBGAS xmlns="http://www.omie.es/Gas/Schemas">
  <MessageId v="Transactions_20150701"/>
  <MessageVersion v="2"/>
  <MessageDateTime v="2015-07-01T17:00:47"/>
  <TradingDay v="2015-07-01"/>
  <SenderId v="MIBGAS"/>
  <ReceiverId v="AGE1"/>
  <TransactionData>
    <ContractId v="GWDES_We150701"/>
    <MessageScope v="CO"/>
    <ContractTransactions>
      <MarketParticipantId v="AGE1"/>
      <PortfolioId v="PORTFOLIO_AGE1"/>
      <ContractType v="AU"/>
      <AuctionNumber v="1"/>
      <OrderId v="1234567"/>
      <TransactionId v="1234567891"/>
      <BuySellIndicator v="S"/>
      <Price v="50.12"/>
      <Quantity v="105"/>
      <TransactionDateTime v="2015-07-01T09:30:47"/>
    </ContractTransactions>
    <ContractTransactions>
      <MarketParticipantId v="AGE1"/>
      <PortfolioId v="PORTFOLIO_AGE1"/>
      <ContractType v="CO"/>
      <OrderId v="1234568"/>
      <TransactionId v="1234567898"/>
      <BuySellIndicator v="B"/>
      <Price v="48.32"/>
      <Quantity v="120"/>
      <TransactionDateTime v="2015-07-01T09:51:54"/>
    </ContractTransactions>
  </TransactionData>
  <TransactionData>
    <ContractId v="GDAES_Th150702"/>
    <MessageScope v="CO"/>
    <ContractTransactions>
      <MarketParticipantId v="AGE1"/>
      <PortfolioId v="PORTFOLIO_AGE1"/>
      <ContractType v="AU"/>
      <AuctionNumber v="1"/>
      <OrderId v="1234599"/>
      <TransactionId v="1234567999"/>
      <BuySellIndicator v="S"/>
    </ContractTransactions>
  </TransactionData>
</MessageTransactionsMIBGAS>
```

```
<Price v="51.92"/>
<Quantity v="106"/>
<TransactionDateTime v="2015-07-01T09:30:47"/>
</ContractTransactions>
...
</TransactionData>
</MessageTransactionsMIBGAS>
```

4.2.3 Annotation schema

Schema description		
Per-Session Annotation Schema		
Schema name		MessageAnnotationsMIBGAS.xsd
Schema description		
<MessageAnnotationsMIBGAS xmlns="http://www.omie.es/Gas/Schemas">		Root element with the reference to the "namespace" of the Gas Market.
	<MessageId v="Annotations_20150701"/>	Message identifier.
	<MessageVersion v="2"/>	Message version.
	<MessageDateTime v="2015-07-01T17:00:47"/>	Date and time of publication of the message.
	<TradingDay v="2015-07-01"/>	Date of session.
	<SenderId v="MIBGAS"/>	Sender ID.
	<ReceiverId v="AGE1"/>	Recipient ID.
	<AnnotationData>	Annotation data of a product
	<ContractId v="GWDES_We150701"/>	Product code.
	<MessageScope v="CO"/>	Message content. "AU": Includes only auctions, "CO": Includes auctions and continuous contracting.
	<ContractAnnotations>	Product annotation.
	<MarketParticipantId v="AGE1"/>	Agent code.
	<PortfolioId v="PORTFOLIO_AGE1"/>	Trading portfolio code
	<RegistryAccountId v="CTAREG_AGE1"/>	Registration account code
	<ClearingAccountId v="CTACON_AGE1"/>	Consolidation account code
	<ContractType v="AU"/>	Type of cassation. "AU": Auction, "CO": Continuous.
	<AuctionNumber v="1"/>	Auction number, optional, only for "AU".
	<AnnotationId v="9234567"/>	Annotation code
	<AnnotationType v="M"/>	Annotation type. "M": Market.
	<OrderId v="1234567"/>	Order code
	<TransactionId v="1234567891"/>	Transaction code
	<FirstGasDay v="2015-07-01"/>	First gas day from annotation
	<LastGasDay v="2015-07-01"/>	Last gas day from annotation
	<BuySellIndicator v="S"/>	Purchase or sale indicator. "B": Buy, "S": Sell.
	<Price v="50.12"/>	Price value
	<Quantity v="105"/>	Transaction amount.
	<QuantitySign v="1"/>	Quantity sign. "1" for sales, "-1" for purchases
	<Delivery v="105"/>	Quantity times the number of days of the product.

	<Amount v="5262.6"/>	Annotation amount.
	<AmountSign v="1"/>	Amount sign. "1" for sales, "-1" for purchases
	<TaxAmount v="0"/>	Tax amount.
	<TaxAmountSign v="1"/>	Tax sign. "1" for sales, "-1" for purchases
	</ContractAnnotations>	Closure product annotations.
	...	Other product annotations.
	</AnnotationData>	Closure of all product annotations.
	...	Other annotations.
	</MessageTransactionsMIBGAS>	Message closure

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<MessageAnnotationsMIBGAS xmlns="http://www.omie.es/Gas/Schemas">
  <MessageId v="Annotations_20150701"/>
  <MessageVersion v="2"/>
  <MessageDateTime v="2015-07-01T17:00:47"/>
  <TradingDay v="2015-07-01"/>
  <SenderId v="MIBGAS"/>
  <ReceiverId v="AGE1"/>
  <AnnotationData>
    <ContractId v="GWDES_We150701"/>
    <MessageScope v="CO"/>
    <ContractAnnotations>
      <MarketParticipantId v="AGE1"/>
      <PortfolioId v="PORTFOLIO_AGE1"/>
      <RegistryAccountId v="CTAREG_AGE1"/>
      <ClearingAccountId v="CTACON_AGE1"/>
      <ContractType v="AU"/>
      <AuctionNumber v="1"/>
      <AnnotationId v="9234567"/>
      <AnnotationType v="M"/>
      <OrderId v="1234567"/>
      <TransactionId v="1234567891"/>
      <FirstGasDay v="2015-07-01"/>
      <LastGasDay v="2015-07-01"/>
      <BuySellIndicator v="S"/>
      <Price v="50.12"/>
      <Quantity v="105"/>
      <QuantitySign v="1"/>
      <Delivery v="105"/>
      <Amount v="5262.6"/>
      <AmountSign v="1"/>
      <TaxAmount v="0"/>
      <TaxAmountSign v="1"/>
    
```

```

    </ContractAnnotations>
    <ContractAnnotations>
      <MarketParticipantId v="AGE1"/>
      <PortfolioId v="PORTFOLIO_AGE1"/>
      <RegistryAccountId v="CTAREG_AGE1"/>
      <ClearingAccountId v="CTACON_AGE1"/>
      <ContractType v="AU"/>
      <AuctionNumber v="1"/>
      <AnnotationId v="9234568"/>
      <AnnotationType v="M"/>
      <OrderId v="1234568"/>
      <TransactionId v="1234567898"/>
      <FirstGasDay v="2015-07-01"/>
      <LastGasDay v="2015-07-01"/>
      <BuySellIndicator v="B"/>
      <Price v="48.32"/>
      <Quantity v="120"/>
      <QuantitySign v="-1"/>
      <Delivery v="120"/>
      <Amount v="5798.4"/>
      <AmountSign v="-1"/>
      <TaxAmount v="0"/>
      <TaxAmountSign v="-1"/>
    </ContractAnnotations>
  </AnnotationData>
  ...
</MessageAnnotationsMIBGAS>

```

4.3 Submission and receipt exchanged with ACER

4.3.1 Request for a submission or receipt

Schema description	
REMIT submission or receipt request schema exchanged with ACER	
Schema name	MensajeServicioDescargaREMIT.xsd
Schema description	
<MensajeServicioDownloadREMIT xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<CdAgente v="AAAA"/>	Agent Code (must be the one corresponding to the certificate used).
<TipoSolicitud v="E"/>	Request type "E": Sending, "R": Receipt.
<Secmens v="123"/>	Requested message sequencer code The values of the sequential message identifier can be obtained through the column query 3200 "Shipments made" (see section 3.1 for a description of the general query service), by date of shipment. The sequencers appear in the "secmens" and "secresp" columns.
</MensajeServicioDescargaREMIT>	Message closure.
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <MensajeServicioDescargaREMIT> <CdAgente v="AAAA"/> <TipoSolicitud v="E"/> <Secmens v="123"/> </MensajeServicioDescargaREMIT></pre>	

4.3.2 Response to the request for a sending or receipt

Schema description	
Response schema to the request for sending or receiving REMIT data exchanged with ACER	
Schema name	RespuestaDescargaREMIT.xsd
Schema description	
<DownloadResponseREMIT xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<CodError v="0"/>	Error Code ("0" = successful download).
<MensError v="Descarga realizada correctamente"/>	Descriptive error message.

<code><IdMensaje v="20151118_REMITTable1_V2_B0003262L.ES"/></code>	Identifier of the message used in the exchange with ACER
<code></RespuestaDescargaREMIT></code>	Message closure.
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <RespuestaDescargaREMIT> <CodError v="0"/> <MensError v="Descarga realizada correctamente"/> <IdMensaje v="20151118_REMITTable1_V2_B0003262L.ES"/> </RespuestaDescargaREMIT></pre>	
In addition, a SOAP attachment will be added with the content of the sending or receipt in the format defined by ACER (REMITTable1_V2.xsd or REMITReceiptSchema_V1.xsd)	

4.4 Sending UMM Messages

4.4.1 Sending UMM Gas Messages

Schema description		
UMM (Urgent Market Messages) message schema related to unavailability of Gas Market units		
Schema name		REMITUMMGasSchema_V2.xsd
Schema description		
<REMITUrgentMarketMessages xmlns="http://www.omie.es/Gas/Schemas">		Root element with the reference to the "namespace" of the Gas Market.
	<UMM>	Describes the data of each message
	<messageId> ABCDE_____001 </messageId>	Message identifier generated by the agent, made up of an identifier (first 25 characters) and a version (last 3 characters), separated by a "_".
	<event>	Event details
	<eventStatus>Active</eventStatus>	Event status.
	<eventType>Storage unavailability</eventType>	Event type
	<eventStart>2020-12-25T14:16:00Z </eventStart>	Start time of the event, in UTC format.
	<eventStop>2020-12-31T14:16:00Z </eventStop>	End time of the event, in UTC format.
	</event>	End of event details
	<unavailabilityType>Planned </unavailabilityType>	Type of unavailability
	<publicationDateTime> 2020-12-24T14:25:25Z </publicationDateTime>	Date and time of publication, in UTC format
	<capacity>	Capacity details
	<unitMeasure>GWh</unitMeasure>	Unit of measurement.
	<unavailableCapacity>150 </unavailableCapacity>	Unavailable capacity
	<availableCapacity>50 </availableCapacity>	Available capacity
	<technicalCapacity>200 </installedCapacity>	Maximum technical capacity
	</capacity>	End of capacity details
	<unavailabilityReason> Reason for unavailability... </unavailabilityReason>	Reason or description of unavailability
	<remarks>Additional details... </remarks>	Additional details (optional)

	<code><balancingZone>21Y—A002A005-T</balancingZone></code>	Balancing zone EIC code (multiple, maximum 2)
	<code><affectedAsset></code>	Affected facility or area
	<code><name>Facility ...</name></code>	Name of the facility or area.
	<code><EIC>XXXXXXXXXXXXXXXXXX</EIC></code>	EIC code of the facility or area
	<code><direction>Entry</direction></code>	Indicates if it is input (Entry) or output (Exit)
	<code></affectedAsset></code>	End of affected facility or area
	<code><marketParticipant></code>	Agent Data
	<code><name>Gas S.A. ...</name></code>	Name of the Agent
	<code><ACE>AAAAAAAAAAAA</ACE></code>	Agent's ACER Code
	<code></marketParticipant></code>	End of agent data
	<code></UMM></code>	Message closure.
	...	Other messages.
	<code></REMITUrgentMarketMessage></code>	Shipment closure.

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<REMITUrgentMarketMessages xmlns=" http://www.omie.es/Gas/Schemas ">
  <UMM>
    <messageId>ABCDE-----_001</messageId>
    <event>
      <eventStatus>Active</eventStatus>
      <eventType>Storage unavailability</eventType>
      <eventStart>2020-12-25T14:16:00Z</eventStart>
      <eventStop>2020-12-31T14:16:00Z</eventStop>
    </event>
    <unavailabilityType>Planned</unavailabilityType>
    <publicationDateTime>2020-12-24T14:25:25Z</publicationDateTime>
    <capacity>
      <unitMeasure>GWh</unitMeasure>
      <unavailableCapacity>150</unavailableCapacity>
      <availableCapacity>50</availableCapacity>
      <technicalCapacity>200</installedCapacity>
    </capacity>
    <unavailabilityReason>Reason for unavailability ...</unavailabilityReason>
    <remarks>Additional details...</remarks>
    <balancingZone>21Y—A002A005-T</balancingZone>
    <affectedAsset>
      <name> Facility...</name>
      <EIC>XXXXXXXXXXXXXXXXXX</EIC>
      <direction>Entry</direction>
    </affectedAsset>
    <marketParticipant>
      <name> Gas S.A. ...</name>
      <ACE>AAAAAAAAAAAA</ACE>
    </marketParticipant>
  </UMM>
</REMITUrgentMarketMessages>
```

```

</UMM>
...
</REMITUrgentMarketMessages>

```

4.4.2 Response to UMM Gas messages

Schema description	
Schema of responses to the insertion of UMM (Urgent Market Messages) related to unavailability of Gas Market units	
Schema name	RespuestaREMITUMMGasSchema_V1.xsd
Schema description	
<RespuestaREMITUrgentMarketMessages xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<IdMensaje v="REMITUrgentMarketMessages_AAAAA_2020-12-18T10:23:35"/>	Response Identification
<FechaMensaje v="2020-12-24T14:25:26"/>	Date/time the response was sent.
<IdRemitente v="MIBGAS"/>	Code of the sender of the response (always "MIBGAS").
<IdMensajeOrigen v="REMITUrgentMarketMessages: UFGC - Fri Dec 24 14:25:26 CET 2020"/>	Identification of the submission to which it is responding (contains the date of the submission to which it is responding).
<VerMensajeOrigen v="1"/>	Version of the submission being responded to (optional)
<IdRemitenteOrigen v="AAAAA"/>	Code of the agent who sent the message.
<Respuesta>	Code and response text for the entire message.
<CodigoRespuesta v="0"/>	Response code ("0" = message ok).
<TextoRespuesta>Petición procesada correctamente</TextoRespuesta>	Descriptive text of the response (optional and multiple).
...	Other possible descriptive texts of the response.
<Respuesta/>	Closure of response.
<ResumenMessages>	Process summary data of UMM messages.
<NumMessagesProcesadas v="1"/>	Total number of messages processed.
<NumMessagesCorrectas v="1"/>	Total number of successful messages.
<ResumenMessages/>	Closing process summary of UMM messages.
<RespuestaSerie>	Responses by UMM message (optional, only if the message is correct).
<MensajeId v="ABCDE_____001"/>	Message identifier.
<HoraInsercion v="2020-12-24T14:25:26"/>	Message insertion date and time (if processed successfully)

	<IdMensajeACER v="AAAAA_____000000582_013"/>	Identifier of the message to be sent to ACER (if it was processed correctly)
	<Respuesta>	Code and response text.
	<CodigoRespuesta v="0"/>	Response code ("0" = order ok).
	<TextoRespuesta>Petición procesada correctamente</TextoRespuesta>	Descriptive text of the response (optional and multiple).
	...	Other possible descriptive texts of the response.
	</Respuesta>	Closure of response.
	</RespuestaSerie>	String response closure
	...	Other serial responses.
	</RespuestaREMITUrgentMarketMessages>	Message closure

4.4.3 Sending Messages UMM Other

Schema description			
UMM (Urgent Market Messages) message schema related to other information on the Gas Market			
Schema name		REMITUMMOtherSchema_V1.xsd	
Schema description			
<REMITUrgentMarketMessages xmlns="http://www.omie.es/Gas/Schemas">		Root element with the reference to the “namespace” of the Gas Market.	
	<UMM>		Describes the data of each message
		<messageId> VWXYZ_____001 </messageId>	Message identifier generated by the agent, made up of an identifier (first 25 characters) and a version (last 3 characters), separated by a “_”.
		<event>	Event details
		<eventStatus>Active</eventStatus>	Event status.
		<eventStart>2020-12-15T12:50:00Z </eventStart>	Start time of the event, in UTC format.
		<eventStop>2020-12-31T01:16:00Z </eventStop>	Event end time, in UTC format (optional)
		</event>	End of event details
		<publicationDateTime> 2020-12-15T11:25:25Z </publicationDateTime>	Date and time of publication, in UTC format
		<remarks>Additional details... </remarks>	Additional details
		<marketParticipant>	Agent Data
		<name>Gas S.A. ...</name>	Name of the Agent
		<ACE>AAAAAAAAAAAA</ACE>	Agent’s ACER Code
		</marketParticipant>	End of agent data
		</UMM>	Message closure.

...	Other messages.
</REMITUrgentMarketMessage>	Sending closure.
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <REMITUrgentMarketMessages xmlns="http://www.omie.es/Gas/Schemas"> <UMM> <messageId>VWXYZ-----_001</messageId> <event> <eventStatus>Active</eventStatus> <eventStart>2020-12-15T12:50:00Z</eventStart> <eventStop>2020-12-31T01:16:00Z</eventStop> </event> <publicationDateTime>2020-12-15T11:25:25Z</publicationDateTime> <remarks>Additional details...</remarks> <marketParticipant> <name> Gas S.A. ...</name> <ACE>AAAAAAAAAAAA</ACE> </marketParticipant> </UMM> ... </REMITUrgentMarketMessages></pre>	

4.4.4 Response to Other UMM Messages

Schema description	
Response schema to the insertion of UMM (Urgent Market Messages) related to other information on the Gas Market	
Schema name	RespuestaREMITUMMOtherSchema_V1.xsd
Schema description	
<RespuestaREMITUrgentMarketMessages xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<IdMensaje v="REMITUrgentMarketMessages_AAAAA_2020-12-18T10:23:35"/>	Response Identification
<FechaMensaje v="2020-12-24T14:25:26"/>	Date/time the response was sent.
<IdRemitente v="MIBGAS"/>	Code of the sender of the response (always "MIBGAS").
<IdMensajeOrigen v="REMITUrgentMarketMessages: UFGC - Fri Dec 24 14:25:26 CET 2020"/>	Identification of the submission to which it is responding (contains the date of the submission to which it is responding).
<VerMensajeOrigen v="1"/>	Version of the submission being responded to (optional)
<IdRemitenteOrigen v="AAAAA"/>	Code of the agent who sent the message.
<Respuesta>	Code and response text for the entire message.
<CodigoRespuesta v="0"/>	Response code ("0" = message ok).

	<TextoRespuesta>Petición procesada correctamente</TextoRespuesta>	Descriptive text of the response (optional and multiple).
	...	Other possible descriptive texts of the response.
	<Respuesta/>	Closure of response.
	<ResumenMessages>	Process summary data of UMM messages.
	<NumMessagesProcesadas v="1"/>	Total number of messages processed.
	<NumMessagesCorrectas v="1"/>	Total number of successful messages.
	<ResumenMessages/>	Closing process summary of UMM messages.
	<RespuestaSerie>	Responses by UMM message (optional, only if the message is correct).
	<MessageId v="VWXYZ_____001"/>	Message identifier.
	<HoraInsercion v="2020-12-24T14:25:26"/>	Message insertion date and time (if processed successfully)
	<IdMensajeACER v="AAAAA_____000000585_010"/>	Identifier of the message to be sent to ACER (if it was processed correctly)
	<Respuesta>	Code and response text.
	<CodigoRespuesta v="0"/>	Response code ("0" = order ok).
	<TextoRespuesta>Petición procesada correctamente</TextoRespuesta>	Descriptive text of the response (optional and multiple).
	...	Other possible descriptive texts of the response.
	</Respuesta>	Closure of response.
	</RespuestaSerie>	String response closure
	...	Other serial responses.
	</RespuestaREMITUrgentMarketMessages>	Message closure

4.5 Other schemas

4.5.1 Response to the list of possible types of results files

Schema description	
Schema of the types of results files for Automatic Download and Multi-download.	
Schema name	RespuestaTiposFicheros.xsd
Schema description	
<RespuestaTiposFicheros xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<PeriodoRefresco unidadPeriodo="s" v="120"/>	Refresh period with your unit in seconds.
<TipoFichero>	Characteristics of a type of file to download (optional and multiple).
<IdTipoFichero>	File type identification.
<Descripcion v="Fichero de precios por sesión "/>	Description of the file type.
<Patron v="Prices_"/>	File type pattern (file name prefix).
<RestoNombre v="FSES.NVER.xml"/>	Template for the rest of the file name.
<IdTipoFichero>	Closure of the file type identification.
<IdConsulta>	Query identifier.
<CodConsulta v="5200"/>	Related query code.
<TipoConsulta v="RES"/>	Query type.
<ParametrosConsulta>	Identification of the parameters for the execution of the query.
<Parametro v="FECHASESION">	List of query call parameters (currently only the value "DATESESSION" is supported)
<ParametrosConsulta/>	Closure of the identification of parameters
</IdConsulta>	Closure of the query identifier.
<Restricciones>	Restrictions
<TipoDescarga v="A"/> <TipoDescarga v="M"/>	Indicators of automatic and/or manual loading (one or two values).
<MaxNumFicheros v="10"/>	Maximum number of files to notify and download.
</Restricciones>	Closure of restrictions.
</TipoFichero>	File type closure.
...	Other file types.
</RespuestaTiposFicheros>	Message closure.

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<RespuestaTiposFicheros>
  <PeriodoRefresco unidadPeriodo="s" v="120"/>
  <TipoFichero>
    <IdTipoFichero>
      <Descripcion v="Precios por sesión"
      <Patron v="Prices_"/>
      <RestoNombre v="FSES.NVER.xml"/>
    </IdTipoFichero>
    <IdConsulta>
      <CodConsulta v="5200"/>
      <TipoConsulta v="RES"/>
      <ParametrosConsulta>
        <Parametro v="FECHASESION">
      <ParametrosConsulta/>
    </IdConsulta>
    <Restricciones>
      <TipoDescarga v="A"/>
      <TipoDescarga v="M"/>
      <MaxNumFicheros v="10"/>
    </Restricciones>
  </TipoFichero>
  ...
</RespuestaTiposFicheros>
```

4.5.2 Query new results files

Schema description

Schema of new files to download.

Schema name

MensajeFicherosNuevos.xsd

Schema description

<MensajeFicherosNuevos xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the “namespace” of the Gas Market.
<UltimoSecuencial v="2926399"/>	Value of the last sequential number to which the client has been updated.
<Patron v="Prices_"/>	List of file patterns for which new files are requested (optional and multiple).
...	Other patterns.
</MensajeFicherosNuevos>	Message closure

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<MensajeFicherosNuevos>
  <UltimoSecuencial v="2926399"/>
  <Patron v="Prices_"/>
  <Patron v="Transactions_"/>
```

```
...
</MensajeFicherosNuevos>
```

4.5.3 Response to the list of new results files

Schema description		
Response schema of the new files to be downloaded.		
Schema name		RespuestaFicherosNuevos.xsd
Schema description		
<RespuestaFicherosNuevos xmlns="http://www.omie.es/Gas/Schemas">		Root element with the reference to the "namespace" of the Gas Market.
<NuevoSecuencial fecha="2015-09-15T10:15:31" v="2926399"/>		New value of the sequential number to which the client has been updated, and update date/time.
<Fichero>		Characteristics of the new files (optional and multiple).
	<IdFichero>	File identification.
	<Nombre v="Prices_20150915.2.xml"/>	Full name of the file.
	<Fecha v="2015-09-15T10:15:31"/>	Date and time of publication of the file.
	<Patron v="Prices_" />	File pattern (file name prefix).
	</IdFichero>	Closure of File Identification.
	<Parametros parametroFechasesion="2015-09-15" parametroNversion="2"/>	Values of the session date (mandatory) and version (optional) parameters for the execution of the query.

</Fichero>	File closure.
...	Other files.
</RespuestaFicherosNuevos>	Message closure
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <RespuestaFicherosNuevos> <NuevoSecuencial fecha="2015-09-15T10:15:31" v="2926399"/> <Fichero> <IdFichero> <Nombre v="Prices_20150915.2.xml"/> <Fecha v="2015-09-15T10:15:31"/> <Patron v="Prices_" /> </IdFichero> <Parametros parametroFechasesion ="2015-09-15" parametroNversion="2"/> </Fichero> <Fichero> <IdFichero> <Nombre v="Transactions_20150915.2.xml"/> <Fecha v="2015-09-15T10:15:31"/> <Patron v="Transactions_" /> </IdFichero> <Parametros parametroFechasesion ="2015-09-15" parametroNversion="2"/> </Fichero> ... </RespuestaFicherosNuevos></pre>	

4.5.4 Query of new billing files

Schema description	
Schema of new results files to download.	
Schema name	MensajeFicherosNuevosFact.xsd
Schema description	
<MensajeFicherosNuevosFact xmlns="http://www.omie.es/Gas/Schemas">	Root element with the reference to the "namespace" of the Gas Market.
<UltimoSecuencial v="123"/>	Value of the last sequential number to which the client has been updated.
<AmbitoDocumento v="FACTSEM"/>	List of document scope (FACTSEM, REMIT, etc.) for which new files are requested (optional and multiple).
...	Other document scope.
</MensajeFicherosNuevosFact>	Message closure
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <MensajeFicherosNuevosFact> <UltimoSecuencial v="123"/> <AmbitoDocumento v="FACTSEM"/></pre>	

```
<AmbitoDocumento v="REMIT"/>
...
</MensajeFicherosNuevosFact>
```

4.5.5 Response to the list of new billing files

Schema description		
Response schema of the new billing files to download.		
Schema name		RespuestaFicherosNuevosFact.xsd
Schema description		
RespuestaFicherosNuevosFact xmlns="http://www.omie.es/Gas/Schemas">		Root element with the reference to the "namespace" of the Gas Market.
	<NuevoSecuencial v="127"/>	New value of the sequential number to which the client has been updated, and update date/time.
	<FicheroFact>	Characteristics of the new files (optional and multiple).
	<Nombre v="FCG_201540_V_1_MIBGAS_..." />	Full name of the file.
	<AmbitoDocumento v="FACTSEM"/>	Document scope
	<CdEmisor v="AGE1"/>	Issuer code
	<CdReceptor v="AGE2"/>	Recipient code
	<CdConsolidador v="AGE3"/>	Consolidator code
	<TipoDocumento v="FCG"/>	Document type

	<code><IndPDF v="S"/></code>	Indicative of whether there is a PDF file for the document
	<code><IndXML v="S"/></code>	Indicative of whether there is a XML file for the document
	<code><FechaValidez v="2015-09-15T10:15:31"/></code>	Date and time of publication of the file
	<code></FicheroFact></code>	File closure.
	...	Other files.
	<code></RespuestaFicherosNuevosFact></code>	Message closure
Example of file content		
<pre> <?xml version="1.0" encoding="UTF-8"?> <RespuestaFicherosNuevosFact> <NuevoSecuencial v="127"/> <FicheroFact> <Nombre v="FCG_201540_V_1_MIBGAS_..."/> <AmbitoDocumento v="FACTSEM"/> <CdEmisor v="AGE1"/> <CdReceptor v="AGE2"/> <CdConsolidador v="AGE3"/> <TipoDocumento v="FCG"/> <IndPDF v="S"/> <IndXML v="S"/> <FechaValidez v="2015-09-15T10:15:31"/> </FicheroFact> <FicheroFact> <Nombre v="FVG_201540_V_1_MIBGAS_..."/> <AmbitoDocumento v="FACTSEM"/> <CdEmisor v="AGE1"/> <CdReceptor v="AGE2"/> <CdConsolidador v="AGE3"/> <TipoDocumento v="FVG"/> <IndPDF v="S"/> <IndXML v="S"/> <FechaValidez v="2015-09-15T10:15:31"/> </FicheroFact> ... </RespuestaFicherosNuevosFact> </pre>		

4.5.6 Response to the list of supported languages

Schema description	
Schema of responses from the list of available languages.	
Schema name	RespuestaListadoldiomas.xsd
Schema description	

<code><RespuestaListadoldiomas xmlns="http://www.omie.es/Gas/Schemas"></code>	Root element with the reference to the “namespace” of the Gas Market.
<code><Idioma v="es" descripcion="Español"/></code>	Language code and description.
<code>...</code>	Other languages.
<code></RespuestaListadoldiomas></code>	Message closure
Example of file content	
<pre><?xml version="1.0" encoding="UTF-8"?> <RespuestaListadoldiomas> <Idioma descripcion="Español" v="es"/> <Idioma descripcion="Inglés" v="en"/> <Idioma descripcion="Portugués" v="pt"/> ... </RespuestaListadoldiomas></pre>	

4.5.7 Response to user data query

Schema description	
Response schema to User data.	
Schema name	RespuestaDatosUsuario.xsd
Schema description	
<code><RespuestaDatosUsuario xmlns="http://www.omie.es/Gas/Schemas"></code>	Root element with the reference to the “namespace” of the Gas Market.
<code><IdAgent></code>	Agent data.
<code><CodAgent v="AAAA"/></code>	Agent code.
<code><DesAgent v="AGENT AAAA"/></code>	Agent description.
<code><PerfilAgente v="AGENTE"/></code>	Agent Profile: AGENT (Agent), REPRESENTATIVE (Representative), ECG (General consolidation entity), etc.
<code></IdAgent></code>	Closure of agent data.
<code><DatosCertificado></code>	Certificate data.
<code><CodCertificado v="12345AB_AAAA"/></code>	Certificate code.

	<PerfilCertificadoRyC v="A"/>	Access profile to the Registry and Queries Platform: "C": Query, "A": Update, "S": No access.
	<PerfilCertificadoTrad v="A"/>	Access profile to the Trading Platform: "C": Query, "A": Update, "S": No access.
	<DatosTitular>	Personal data of the holder.
	<Nombre v="Nombre"/>	Given name of the holder.
	<Apellidos v="Apellidos"/>	Surname(s) of the holder.
	<EMail v="nombre_apellidos@aaaa.es"/>	Holder's email.
	</DatosTitular>	Closure of holder data.
	<Validez>	Certificate validity period.
	<FechaAlta v="2015-01-22"/>	Entry date.
	<FechaBaja v="2018-05-02"/>	De-registration date.
	</Validez>	Closure of validity.
	</DatosCertificado>	Closure of certificate data.
	</RespuestaDatosUsuario>	Message closure

Example of file content

```
<?xml version="1.0" encoding="UTF-8"?>
<RespuestaDatosUsuario>
  <IdAgente>
    <CodAgente v="AAAA"/>
    <DesAgente v="AGENTE AAAA"/>
    <PerfilAgente v="AGENTE"/>
  </IdAgente>
  <DatosCertificado>
    <CodTarjeta v="12345AB_AAAA"/>
    <PerfilCertificadoRyC v="A"/>
    <PerfilCertificadoTrad v="A"/>
    <DatosTitular>
      <Nombre v="Nombre"/>
      <Apellidos v="Apellidos"/>
      <EMail v="nombre_apellidos@aaaa.es"/>
    </DatosTitular>
    <Validez>
      <FechaAlta v="2015-01-22"/>
      <FechaBaja v="2018-05-02"/>
    </Validez>
  </DatosCertificado>
</RespuestaDatosUsuario>
```

4.6 Other simple formats used in Web Services

There are many intermediate formats, also called simple types, used internally by the various exchange schemas.

This section describes, among said types, those that are used directly in the invocation or response of some Web Services.

The rest of the intermediate formats are included in the TiposMercadoGas.xsd schema, available on the Agents website together with the rest of the information on schemas and Web Services.

4.6.1 Date and time format

Name type	FechaHora
Type description	
<FechaHora v="2015-09-15T18:14:37.567"/>	Date and time in ISO 8601 format

4.6.2 Query code

Name type	CodConsulta
Type description	
<CodConsulta v="3101"/>	Query code of up to 4 digits.

4.6.3 Download Type

Name type	TipoDescarga
Type description	
<TipoDescarga v="A"/>	Download Type: "A": Automatic "M": Manual.

4.6.4 Language Selection

Name type	SeleccionIdioma
Type description	
<SeleccionIdioma v="es"/>	Language code, among those supported by the system.

4.6.5 Error Message

Name type	MensajeErrores
Type description	
<MensajeErrores>	Root element
<CodigoRespuesta v="M-INFO-NO-DISPONIBLE "/>	Error code.
<TextoRespuesta>Información del fichero ... no disponible</TextoRespuesta>	Descriptive text of the error (optional and multiple).
...	Other possible descriptive texts of the error.
</MensajeErrores>	Message closure

5. Combined mechanisms

This chapter describes combined information download mechanisms in which two or more types of query services are coordinated, allowing to compose a more elaborate data download system. All these mechanisms are used in the facilities currently available in the Download Centre, and can be implemented in a similar way in the agents' information systems.

5.1 Multiple manual download of results files by sessions

The manual multiple download from the Agents Web Download Centre allows the different results that are published for one or more sessions (prices, trades, annotations) to be downloaded to a file at once. Each type of file is obtained with a query that returns results in the form of an attached file or program format.

The way to use the available services to implement this functionality would be as follows:

- » Access the “ServicioConsultaTiposFicheros” service, indicating the type of download “manual”. The list of possible types of files to download will be obtained, together with the necessary details to execute the download (query number, query type and necessary parameters).
- » Show the user the available files so that they can choose the ones they want to download, and allow them to specify a session or set of sessions.
- » For each file and session, access the “ServicioEjecucionConsultaAnexo” or “ServicioEjecucionConsultaResultados” services, depending on the type of query. An attached file or content in XML will be obtained from them, to be processed or saved on disk with the name corresponding to each file.

5.2 Download billing documents

The manual download of billing documents from the Download Centre of the Agents website allows the different billing documents that are published periodically to be downloaded to a file at once. Each published document can be downloaded in XML and/or PDF format through specific queries that return results in the form of an attached file.

The way to use the available services to implement this functionality would be as follows:

- » From a publication date and the agent code (which must coincide with the agent holding the certificate used), and through the “ServicioEjecucionConsultaEncolumnada” service, execute the columnar query corresponding to the desired billing scope.
- » Each of these queries will return a list of documents published on the chosen date, including the name of the file, and indications of whether there are documents in PDF and XML format associated with it.
- » For each document obtained from the list, for which there is a PDF document, the PDF document can be obtained directly, accessing specific attached type queries for each scope.
- » For each document obtained from the list, for which an XML document exists, the signed XML document can be obtained by accessing specific attached type queries for each scope.

The query codes for the different types of billing documents are indicated below, both for obtaining the list of documents and for downloading the XML and PDF files (these query codes can be found, in turn, using the service “ServicioConsultaDirectorioConsultas”):

Scope	Description	Query codes for list of documents	Query codes for PDF download	Query codes for XML download
FACTSEM	Weekly electronic invoices	3190	3191	3192
FACTSEMMDER	Weekly electronic invoices MDERSPOT	3198	3191	3192
FACTREMIT	Electronic Invoices for REMIT Services	3196	3194	3195
FSERVMDER	Electronic Invoices for Services REMIT MDER	3197	3194	3195
NOTAINT	Bank commission debit notes	3199	3191	3192
FACTDOCINT	Invoices and documents relating to interest	3210	3211	3212
FACTDOCPEN	Invoices and documents relating to penalties	3214	3215	3216

5.3 Automatic file download

The Automatic Download from the Agents' Website Download Centre is used to independently obtain the different Market results files, as they are published.

The way to use the available services to implement this functionality would be as follows:

For session results files

- » Access the "ServicioConsultaTiposFicheros" service, indicating the type of "automatic" download. The list of possible types of files to download will be obtained, together with the necessary details to execute the download (query number, query type and necessary parameters).
- » Show the user the types of files available so that they can choose the ones they want to subscribe to.
- » Periodically (respecting the minimum period of 2 minutes currently established by the system), access the "ServicioConsultaNuevosFicheros" service, indicating the list of subscribed file types, and a sequential number that represents the moment in which the last update was received (this value should be zero the first time).
- » When this service is invoked with the sequencer zero, the list of files published in the last 7 days will be obtained. Otherwise, it will return the list of published files (if any) after the specified sequencer. In all cases, the service will also return the value of the sequencer corresponding to the last published file. This value is the one to be used in the next service invocation.
- » For each new file notified, access the "ServicioEjecucionConsultaAnexo" or "ServicioEjecucionConsultaResultados" services, depending on the type of query. An attached file or content in XML will be obtained from them, to be processed or saved on disk with the name corresponding to each file.

For billing documents

- » Periodically (respecting the minimum period of 2 minutes currently established by the system), access the "ServicioConsultaNuevosFicherosFact" service, indicating the list of subscribed file

scope (FACTSEM, REMIT, etc.), and a sequential number, which represents the time when the last update was received (this value should be null the first time).

- » When said service is invoked with said null value, the list of files published in the last 2 days will be obtained. Otherwise, it will return the list of published files (if any) after the specified sequencer. In all cases, the service will also return the highest sequencer value among the published files. This value is the one to be used in the next service invocation.
- » For each new notified file, access the “ServicioEjecucionConsultaAnexo” service with the query code corresponding to each document scope and existing format of each document (see section 5.2). An attached file will be obtained from them to process or save on disk with the name corresponding to each file.