Schema Change Request

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Title Incorporation VicGas Wholesale Market Transactions

(Web Exchanger)

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Priority

Document Control

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Document Status

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1 Change Proposal

This Change Proposal contains the following:

 Request for enhancements relating to the automation interfaces for the VicGas Wholesale Gas Market system of VENCorp.

1.1 Description of the proposed change

The VicGas Wholesale Gas Market Automation Web Services are implemented by VENCorp, and are split up into a number of discrete services relating to particular areas of functionality:

- Bid service
- Demand forecast service
- Injection hedge nomination service
- Agency injection hedge nomination service.
- System service

The document/literal contents in the VENCorp web services are based upon the existing **aseXML specification** to be updated to include new transactions specifically defined for the new wholesale gas market and detailed in the following sections of this document. The web services XML Schema is a subset of the aseXML specification, and uses elements and types defined within the aseXML schema.

Note, in spite of batching capabilities incorporated into aseXML, the VENCorp web services will carry only a single transaction, and no batching is allowed.

The use of aseXML Header element is not required by web services. The conversation is always held by an authenticated party to VENCorp. In this scenario, the use of header is redundant. However, to ensure consistent ussage, the aseXML header will always have populated all mandatory elements:

```
<Header>
  <From>Market Participant</from>
  <To>VENCorp</To>
  <MessageID>117CF3AE-EDDF-2456-02F3-C733881DA789</MessageID>
  <MessageDate>2006-06-22T11:24:59.596+10:00</MessageDate>
  <TransactionGroup>MKTW</TransactionGroup>
  <Priority>Medium</Priority>
  <Market>VICGAS</Market>
</Header>
```

Values <From> and <To> elements when generated by VENCorp will be set to "VENCorp WebExchanger" and the MarketParticipant's company name respectively. VENCorp will not be validating the values provided in those fields as the web service call origin context will be already known, and the user/system had been authenticated.

The <MessageID> will be populated with a unique identifier. The <MessageDate> will have the date/time when the message has been generated by the application or the web services client. The <TransactionGroup> will always be set to MKTW. The <Priority> element will always be set to Medium. The <Market> element will be always set to VICGAS.

The proposed changes are listed in the following table.

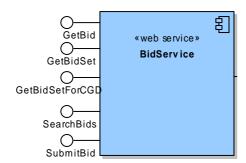
Table 1-1, Proposed Changes

| Item# | Change Description | Change Type |
|------------|--|--------------------|
| Business (| Changes | |
| 1. | Inclusion of new Bid transactions to support the Web Services automation in the VicGas Wholesale market. Provides for the bids submission and retrieval functions. Relevant operation descriptions are provided in the section 1.2. | Enhancement |

| Item# | Change Description | Change Type |
|-------|---|-------------|
| 2. | Inclusion of new Market Participant's Demand Forecast transactions to support the Web Services automation in the VicGas Wholesale market. Provides for the forecast submissions and retrieval functions. Relevant operation descriptions are provided in the section n.n | Enhancement |
| 3. | Inclusion of new Injection Hedge Nomination transactions to support the Web Services automation in the VicGas Wholesale market. Provides for the injection hedge nominations submission and retrieval functions. Relevant operation descriptions are provided in the section n.n. | Enhancement |
| 4. | Inclusion of new Agency Injection Hedge transactions to support the Web Services automation in the VicGas Wholesale market. Provides for the agency injection hedge nominations submission and retrieval functions. Relevant operation descriptions are provided in the section n.n. | Enhancement |
| 5. | System transactions provide Market Participants for additional information regarding to the application state and attributes. | Enhancement |

1.2 Web Services - Bid Service

The Bid Service is responsible for all bid-related functionality, including retrieving bid information, searching for bid information and submitting new bid information to the VENCorp gas market system. The UML representation of the operations exposed via this web services is shown in the following figure.



1.2.1 GetBid

The getBid() method obtains all the data for a particular bid based on its bid identifier in the VENCorp system (Bid ID), including the individual bid steps that comprise the bid stack.

Only bids submitted by the logged in user, or another user within the same company/organization, will be viewable using this method.

1.2.2 GetBidSet

The getBidSet() method obtains all the data for a particular bid set based on its bid set identifier in the VENCorp system (Bid Set ID). A bid set is a collection of bids which can span multiple days (a standing bid) or represent a single day's set of bids for one or more scheduling horizons.

1.2.3 GetBidSetForCGD

The getBidSetForCGD() method obtains all the data for the latest bid set for the current gas day. This is a convenience method as the same data can be obtained via the related getBid() or searchBids() calls.

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1.3 SearchBids

The searchBids() method searches for bid information matching the criteria specified in the request message. The search can be based on:

- Start and end date
- MIRN
- Bid Type (Injection/Withdrawal)

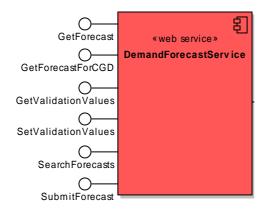
The response message will contain zero or more matching bids.

1.4 SubmitBid

The submitBid() method submits bid information for processing by the VENCorp gas market system, using the supplied date range, bid type and price/quantity information. SOAP faults will be generated if the submission is not accepted due to missing the interval cutoff time and for other reasons. The possible SOAP faults are documented below along with the potential causes of the faults.

1.5 Web Services – Demand Forecast Service

The Demand Forecast Service is responsible for all demand forecast-related functionality, including retrieving forecast data and submitting new forecast information to the VENCorp gas market system.



The service provides the following operations:

- GetForecast
- GetForecastForCGD
- GetValidationValues
- SetValidationValues
- SearchForecasts
- SubmitForecast

1.5.1 GetForecast

The getForecast () method obtains all the data for a particular demand forecast based on its demand forecast identifier in the VENCorp system (Demand Forecast ID), including the individual hourly values that comprise the forecast.

1.5.2 GetForecastForCGD

The getForecastForCGD() method obtains all the data for the latest demand forecast for the current gas day. This is a convenience method as the same data can be obtained via the related getForecast() or searchForecasts() calls.

1.5.3 GetValidationValues

The getValidationValues() method retrieves the demand forecast hourly validation values supplied by the participant during the initial VENCorp gas market registration process. These values provide an upper limit on the forecast values that can be entered by the participant for demand forecasts, either through the web front end or via SOAP.

1.5.4 SetValidationValues

The setValidationValues() method sets the demand forecast hourly validation values that are initially supplied by the participant during the VENCorp gas market registration process. These values provide an upper limit on the forecast values that can be entered by the participant for demand forecasts, either through the web front end or via SOAP.

1.5.5 SearchForecasts

The searchForecasts () method searches for demand forecast information matching the criteria specified in the request message. The search can be based on:

- Start and end date
- Site specificity
- MIRN (if site specific)

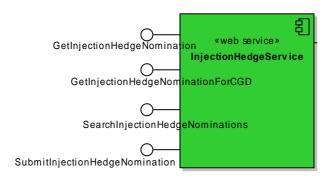
The response message will contain zero or more matching demand forecast records.

1.5.6 SubmitForecast

The submitForecast() method submits demand forecast information for processing by the VENCorp gas market system, using the supplied date range, MIRN (for site specific forecasts) and other information. SOAP faults will be generated if the submission is not accepted for whatever reason. The possible SOAP faults are documented below along with the potential causes of the faults.

1.6 Web Services – Injection Hedge Nomination Service

The Injection Hedge Nomination Service is responsible for all injection hedge nomination functionality, including retrieval of the historical data and submission of new injection hedge nominations to the VENCorp gas market system.



The service provides the following operations:

ASWG Change Management Process

- GetInjectionHedgeNomination
- GetInjectionHedgeNominationForCGD
- SearchInjectionHedgeNominations
- SubmitInjectionHedgeNomination

1.6.1 GetInjectionHedgeNomination

The getInjectionHedgeNomination() method obtains all the data for a particular injection hedge nomination based on its identifier (Injection Nomination Header Id).

Note, the number of entries returned in AMIQS element of the response will be equal to the number of scheduling intervals in a gas day. If no AMIQ value was supplied during the submission, then zero will be stored.

1.6.2 GetInjectionHedgeNominationForCGD

The getInjectionHedgeNominationForCGD() method returns the injection hedge nomination that is effective for the current gas day.

1.6.3 SearchInjectionHedgeNominations

The searchInjectionHedgeNominations() operation is responsible for the retrieval of injection hedge nominations that fall into specified period. This operation will return data if:

- There is a nomination either standing or for individual gas day, and
- The date range provided in the parameter is either completely enclosed in the above standing nomination, or
- Period's termination date is <u>after</u> than the nomination's commencement date, or
- Period's commencement date is before the nomination's termination date.

Only nominations submitted by the logged in user, or another user within the same company/organization, will be viewable using this method.

1.6.4 SubmitInjectionHedgeNomination

The submitInjectionHedgeNomination() operation submits injection hedge nomination information for processing by the VENCorp gas market system, using the supplied date range, MIRN and other information.

AMDQ and AMDQ Credit quantities supplied in the request must be of integer type, in GJ. AMIQ profile values are percentage. AMIQ profile values must be provided for every scheduling interval.

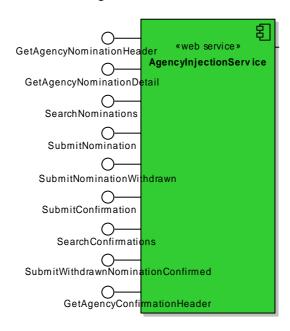
1.7 Web Services – Agency Hedge Nomination Service

The Agency Injection Hedge Nomination Service is responsible for all agency-related functionality. That includes all the functions available through the front-end browser interface, i.e. nomination of an agent, confirming nominations, withdrawal of nominations, and search for historical agency nominations.

Please note the usage of AgencyNominationHeaderId and AgencyNominationId:

AgencyNominationHeaderId is an identifier for the entire group of nominations submitted at the
same time. This corresponds to the Agency Nomination screen on the VENCorp gas market
system's browser interface where up to 10 agency nominations can be made. The
AgencyNominationHeaderId is returned to the user following the successful submission of the
group of nominations.

AgencyNominationId is an identifier of the individual agency nomination as it is being tracked
by the VENCorp gas market. This identifier appears next to the individual agency nomination
following the successful submission. It is the identifier that will be returned/displayed when
searching for nominations.



This service provides the following operations:

- GetAgencyNominationHedaer
- GetAgencyNominationDetail
- SearchNominations
- SubmitNomination
- SubmitNominationWithdrawn
- SubmitConfirmation
- SearchConfirmations
- SubmitWithdrawnNominationConfirmed
- GetAgencyConfirmationHeader

1.7.1 GetAgencyNominationHeader

The getAgencyNominationHeader() operation is responsible for the retrieval of the set of agency nominations identified by the provided header identifier -AgencyNominationHeaderId.

1.7.2 GetAgencyNominationDetail

The getAgencyNominationDetail() operation is responsible for the retrieval of the individual nomination details as specified in the operation parameter.

1.7.3 SearchNominations

The searchNominations() operation is responsible for retrieval of the agency nominations that satisfy the search parameters.

The mandatory parameter <NMI> specifies the meter for which the search must be performed. The optional parameter <Period> defines the date range for which the agency nomination will be searched for. If not specifed, then the current gas day will be assumed.

1.7.4 SubmitNomination

The submitNomination() operation will allow the user to submit the agency nomination to the VENCorp gas market system. The user will be able to submit nominations for meters registered to the company/organisation the user belongs to.

Upon successful submission, the VENCorp gas market system will generate notification emails (in accordance with the Participant Build Pack to the nominated party, and the company/organisation who created the nomination.

1.7.5 SubmitNominationWithdrawn

The submitNominationWithdrawn() operation allows the user to withdraw the previously submitted agency nomination. It does not provide for the withdrawal of the entire nomination group (as identified by the header id), but rather the individual nomination (as identified by the nomination id).

An individual nomination can be withdrawn either before the confirmation for that nomination is submitted, or after the confirmation. In both cases notifications will be generated by VENCorp gas market system to the counterparties.

Upon successful submission, the status of the nomination will be set to "NWDN".

1.7.6 SubmitConfirmation

The submitConfirmation() operation is responsible for submission of a confirmation for the individual agency hedge nomination. This confirmation, upon successful submission, will change the status of the specified agency nomination to "NCON". The successful operation will trigger a notifications sent to both parties.

1.7.7 SearchConfirmations

The searchConfirmation() operation is responsible for searching the submitted agency nomination confirmations. The only confirmations submitted by the logged in user, or another user from the same company/organisation will be viewable from this operation.

1.7.8 SubmitWithdrawnNominationConfirmed

The submitWithdrawnNominationConfirmed() operation is responsible for submission of the confirmation for the the nomination that had been withdrawn. Only nominations made to the logged-in user, or another user from the same company/organisation will be updateable via this operation. The successful submission via this operation will change the status of the specified nomination to "WCON".

1.7.9 GetAgencyConfirmationHeader

The getAgencyConfirmationHeader() operation is responsible for retrieval of the agency nomination status - actually the complete nomination only without the agency nomination header identifier - as per specified individual agency nomination id. This operation shall be executed only by the nominee/agent.

1.8 Web Services - System Service

The System Service is responsible for all general purpose utility functions and functionality, which does not fall strictly into one of the other functional areas. Functionality provided includes the ability to get the current gas date and time from the VENCorp system, as well as information such as scheduling intervals and so on.

1.8.1 GetCurrentGasDate

The ${\tt getCurrentGasDate}$ () method retrieves the current gas date from the VENCorp system.

1.9 Reason for Change

The requested change will facilitate the implementation of the Wholesale Gas Market by providing Market Participants with ability to integrate their trading processes with the VENCorp's Gas Market Systems via the web services / automation interfaces described in this change request.

The submission and retrieval of information is via XML fragments constructed in line with rules for specific to the wholesale gas market transactions as would be defined in aseXML. The submissions are supported by web services' document style and literal use.

This change request also ensures that the consistency is maintained in the implementation of information exchange systems for Market Participants with the use of XML in the FRC area.

1.10 Baseline Schema

The aseXML_r19 schema used as a basis for this proposal.

2 Approval Proposal

2.1 Draft Schema

Draft schema created as aseXML_r20.xsd

2.2 Change log

The following changes have been implemented in this draft:

| Chg# | Item# | Description of change | File |
|------|-------|--|--|
| 1 | All | Abstract definition of eight new generic wholesale transactions | New file MarketWholesale_r20.xsd |
| 2 | All | Addition of payloads of each of the transactions | New file GasMarketWholesale_r20.xsd |
| 3 | All | Addition of new event for R20 | Event_r20.xsd |
| 4 | All | Addition of eight new wholesale transactions | Transactions_r20 |
| 5 | All | Addition of new transaction Group MKTW - Wholesale market operations | Header_r20 |
| 6 | All | Use of default versioning for new transactions and derived types. | MarketWholesale_r20.xsd & |
| | | | GasMarketWholesale_r20.xsd |
| 7 | All | Namespace changed to include r20 version attribute; r20 files included | aseXML_r20 |

Table 2-1 Change Log

2.3 Schema change description

The impact of changes required by this document is fairly minimal:

- An update to the top level schema to import additional wholesale schemas.
- Update of the Events schema to add an identifier for the release "r20".
- Update of the top level schema version to r20.
- An introduction of the wholesale market schema component.
- An introduction of the wholesale gas market schema component.
- Introduction of eight new Transactions
- Use of default versioning for transaction and type defined

The impact of this change request is reduced by the fact that only limited number of the existing types is used by the gas wholesale market schema: NMI and Period. Also, none of the transactions being defined within this change request are currently anticipated to be part of FRC B2B exchange. It is noted that the Guidelines indicate the use of Manadatory versioning at the Transaction Level. It is believed that the use of Default versioning with the introduction of new transactions is appropriate and will provide the benefit of minimising the amount of change needed to be performed with updates to the schema.

2.3.1 aseXML Top Level Schema

The changed portions of the schema are highlighted using bold font and additional items have a surrounding border.

2.3.2 Transactions schema

The schema introduces the following eight new transactions:

```
WholesaleRetrieveRequest
WholesaleRetrieveResponse
WholesaleSearchRequest
WholesaleSearchResponse
WholesaleSubmitRequest
WholesaleSubmitRequest
WholesaleInformationRequest
WholesaleInformationResponse
```

2.3.3 Events schema

This schema file will have release number incremented to **r20**. Also, "r20" identifier will be appended into this schema.

```
<xsd:simpleType name="r20">
    <xsd:annotation>
        <xsd:documentation>Purpose - Release r20 identifier</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="ReleaseIdentifier">
              <xsd:enumeration value="r20"/>
        </xsd:restriction>
        </xsd:simpleType>
```

2.3.4 Header schema

This schema file will have release number incremented to **r20**. The file is to be modified for the inclusion of the new Transaction Group for the Wholesale Market:

2.3.5 Market Wholesale Schema

This schema introduces base types common to both gas and electricity wholesale markets.

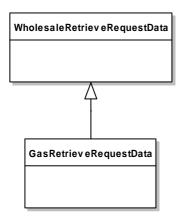
```
<xsd:complexType name="WholesaleRetrieveResponse">
  <xsd:sequence>
    <xsd:element name="RetrieveResponseData" type="WholesaleRetrieveResponseData"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
</xsd:complexType>
<xsd:complexType name="WholesaleSearchRequest">
  <xsd:sequence>
    <xsd:element name="SearchRequestData" type="WholesaleSearchRequestData"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
</xsd:complexType>
<xsd:complexType name="WholesaleSearchResponse">
  <xsd:sequence>
    <xsd:element name="SearchResponseData" type="WholesaleSearchResponseData"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
</xsd:complexType>
<xsd:complexType name="WholesaleSubmitRequest">
  <xsd:sequence>
    <xsd:element name="SubmitRequestData" type="WholesaleSubmitRequestData"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
</xsd:complexType>
<xsd:complexType name="WholesaleSubmitResponse">
  <xsd:sequence>
    <xsd:element name="SubmitResponseData" type="WholesaleSubmitResponseData"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
</xsd:complexType>
<xsd:complexType name="WholesaleInformationRequest">
  <xsd:sequence>
    <xsd:element name="InformationRequestData" type="WholesaleInformationRequestData"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
</xsd:complexType>
<xsd:complexType name="WholesaleInformationResponse">
  <xsd:sequence>
    <xsd:element name="InformationResponseData" type="WholesaleInformationResponseData"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
</xsd:complexType>
<!-- Transaction Payload Definitions -->
<xsd:complexType name="WholesaleRetrieveRequestData" abstract="true"/>
 <xsd:complexType name="WholesaleRetrieveResponseData" abstract="true"/>
<xsd:complexType name="WholesaleSearchRequestData" abstract="true"/>
<xsd:complexType name="WholesaleSearchResponseData" abstract="true"/>
<xsd:complexType name="WholesaleSubmitRequestData" abstract="true"/>
<xsd:complexType name="WholesaleSubmitResponseData" abstract="true"/>
<xsd:complexType name="WholesaleInformationRequestData" abstract="true"/>
<xsd:complexType name="WholesaleInformationResponseData" abstract="true"/>
</xsd:schema>
```

2.3.6 Gas Market Wholesale Schema

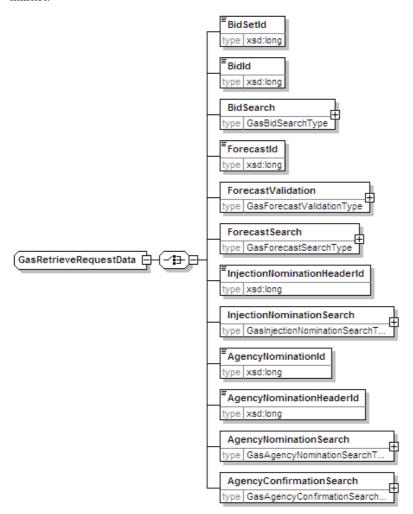
Addition of the following Complex Types, which are extension of their corresponding Wholesale Complex base types, shown using UML class notation, as defined in 2.3.5.

2.3.6.1 GasRetrieveRequestData

GasRetrieveRequestData is an extension of the WholesaleRetrieveRequestData complex element.

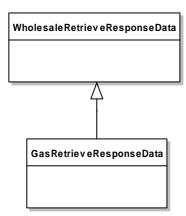


Below is a representation of the GasRetrieveRequestData complex element as required by gas wholesale market.

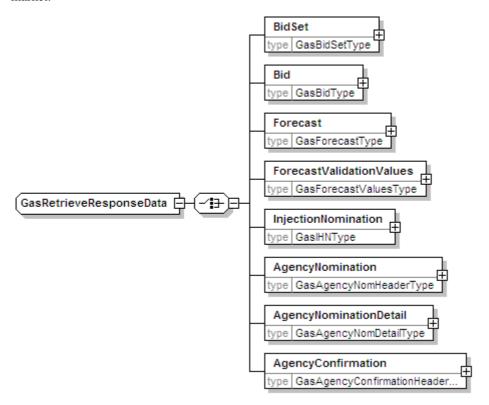


2.3.6.2 GasRetrieveResponseData

GasRetrieveResponseData is an extension of the WholesaleRetrieveResponseData complex element. It will be sent in response to GasRetrieveRequestData element.

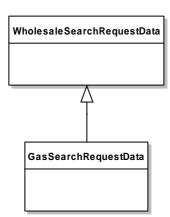


The following is a representation of the GasRetrieveResponseData element as required by the gas wholesale market.

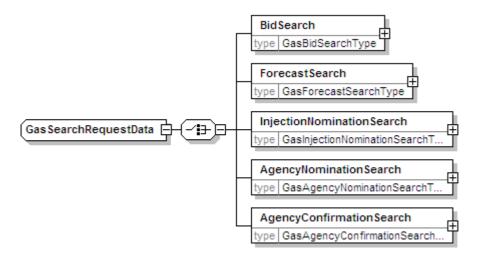


2.3.6.3 GasSearchRequestData

GasSearchRequestData is an extension of the WholesaleSearchRequestData complex element.

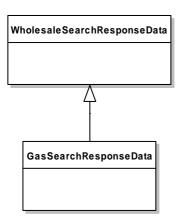


The following is a representation of the GasSearchRequestData element as required by the gas wholesale market.

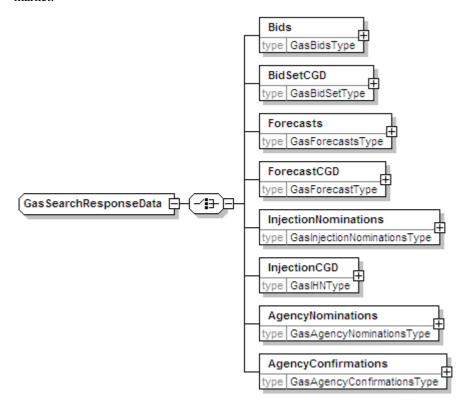


2.3.6.4 GasSearchResponseData

The GasSearchReesponseData is an extension of the WholesaleSearchResponseData complex element. It will be generated in response to the web service request containing GasSearchRequestData complex element.

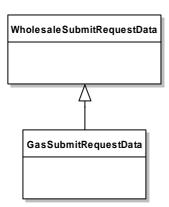


The following is a representation of the GasSearchResponseData complex element as required by wholesale gas market.

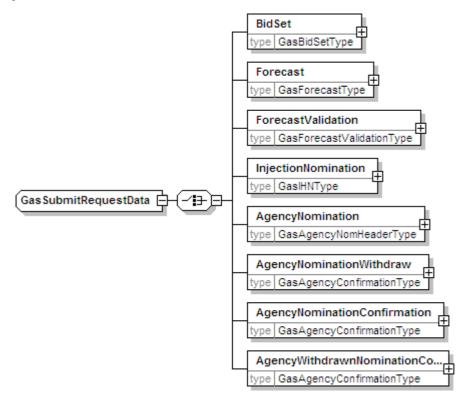


2.3.6.5 GasSubmitRequestData

The GasSubmitRequestData is a complex type extending the WholesaleSubmitRequestData complex element.

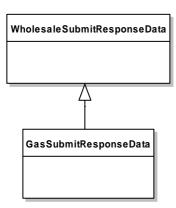


The following is a representation of the GasSubmitRequestData complex element as required by the wholesale gas market.

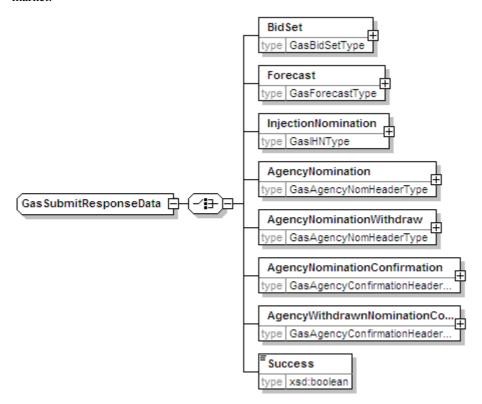


2.3.6.6 GasSubmitResponseData

The GasSubmitResponseData complex type is an extension of the WholesaleSubmitResponseData complex type. It will be generated in response to GasSubmitRequestData element.

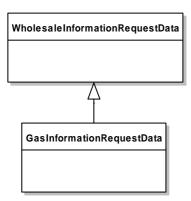


The following is a representation of the GasSubmitResponseData complex type as requried by wholesale gas market.



2.3.6.7 GasInformationRequestData

The GasInformationRequestData is an extension of the WholesaleInformationRequestData complex type.

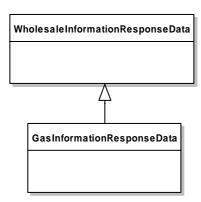


The following is a representation of the GasInformationRequestData as required by whole gas market.

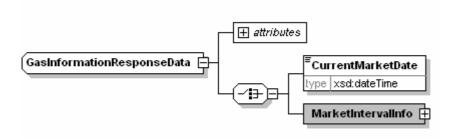


2.3.6.8 GasInformationResponseData

The GasInformationResponseData is an extension of the WholesaleInformationResponseData complex type. It will be generated in response to GasInformationRequestData.



The following is a representation of the GasInformationResponseData complex type as required by wholsale gas market.



2.4 Impact Summary

This table identifies the files, transactions and versioned types that are potentially impacted as the result of these changes where:

- o Modified types is a full list of types changed by this Change Request
- O Derived types is a list of any types that are derived from a modified type, and are therefore also modified by default
- o Versioned types affected is a list of all versioned types that will need to have the version attribute updated as a result of this Change Request
- o Transactions potentially affected is a list of all transactions that contain a modified type, either directly or via a type substitution
- o Schema files affected is a list of schema files that will be changed in some way as a result of this Change Request.

| Modified types | Derived types | Versioned types affected | Transactions potentially affected | Schema files affected |
|--|---------------|--------------------------|-----------------------------------|---|
| Transaction | _ | - | _ | Transactions_r20.xsd |
| TransactionGroup | - | - | _ | Header_r20.xsd |
| New types for addditional Gas Wholesale transactions | | _ | | New: MarketWholesale_r20.xsd GasMarketWholesale_r20.xsd |

Table 2-2, Impact Summary

2.5 Developer Test

2.5.1 Test Platforms

The new schema has been tested using the following platforms as advised by ASWG:

- o XMLSpy 2006
- o MSXML4 SP1
- o Xerces 1.4.4 and 2.2.1

2.5.2 Test Cases

<List any sample files provided>

3 Proposal Assessment

3.1 Test

The ASWG ensures that all recommended parsers on relevant platforms can successfully validate the proposed schema.

3.1.1 Test Platforms

Supplied samples have been tested using the following parsers:

- MSXML 4.0 SP1
- o Xerces 2.2.1
- o XMLSpy 2006

3.1.2 Test Cases

GasInformationRequestData_CGD.xml

GasInformationRequestData_ID.xml

 $GasInformationResponseData_CGD.xml$

 $GasInformationResponseData_ID_1.xml$

 $GasInformationResponseData_ID_2.xml$

 $Gas Retrieve Request Data_Agency Confirmation Header.xml$

GasRetrieveRequestData_AgencyNominationDetail.xml

 $Gas Retrieve Request Data_Agency Nomination Header.xml$

 $GasRetrieveRequestData_BidSetCGD.xml$

 $GasRetrieveRequestData_ForecastCGD.xml$

GasRetrieveRequestData_ForecastId.xml

 $Gas Retrieve Request Data_Forecast Validation.xml$

 $Gas Retrieve Request Data_Gas Forecast Validation Type.xml$

GasRetrieveRequestData_GetBid.xml

 $GasRetrieveRequestData_GetBidSet.xml$

GasRetrieveRequestData_InjectionNomination.xml

 $Gas Retrieve Request Data_Injection Nomination CGD.xml$

 $Gas Retrieve Response Data_Agency Confirmation Header.xml$

 $Gas Retrieve Response Data_Agency Nomination Detail.xml\\$

GasRetrieveResponseData_AgencyNominationHeader.xml

 $Gas Retrieve Response Data_Bid Set CGD.xml$

 $GasRetrieveResponseData_ForecastCGD.xml$

GasRetrieveResponseData_ForecastId.xml

GasRetrieveResponseData_ForecastValidation.xml

 $GasRetrieveResponseData_GasForecastValidationType.xml$

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GasRetrieveResponseData_GetBid.xml

GasRetrieveResponseData GetBidSet.xml

GasRetrieveResponseData_InjectionNomination.xml

 $Gas Retrieve Response Data_Injection Nomination CGD.xml$

Gas Search Request Data.xml

 $Gas Search Request Data_Agency Confirmation.xml\\$

GasSearchRequestData_AgencyNomination.xml

 $Gas Search Request Data_fore cast.xml$

 $Gas Search Request Data_Injection Nomination.xml\\$

GasSearchResponseData.xml

 $Gas Search Response Data_Agency Confirmation.xml\\$

GasSearchResponseData_AgencyNomination.xml

 $GasSearchResponseData_forecast.xml$

GasSearchResponseData_InjectionNomination.xml

 $Gas Submit Request Data_Agency Nomination.xml\\$

 $Gas Submit Request Data_Agency Nomination Confirmation.xml$

 $Gas Submit Request Data_Agency Nomination With draw.xml$

 $Gas Submit Request Data_Agency With drawn Nomination Confirmed.xml\\$

GasSubmitRequestData_Bid.xml

 $GasSubmitRequestData_Forecast.xml$

GasSubmitRequestData_InjectionNomination.xml

 $Gas Submit Response Data_Agency Nomination.xml\\$

 $Gas Submit Response Data_Agency Nomination Confirmation.xml\\$

 $Gas Submit Response Data_Agency Nomination With draw.xml$

 $Gas Submit Response Data_Agency With drawn Nomination Confirmed.xml$

 $GasSubmitResponseData_Bid.xml$

 $GasSubmitResponseData_Forecast.xml$

GasSubmitResponseData_InjectionNomination.xml

The above xml sample docs have been validated using the above parsers.

3.1.3 Test Results

The XML sample files were successfully validated.

3.2 Conformance Report

The ASWG completes the conformance report validating each proposed new schema file against the published aseXML guidelines.

| Schema Filename | Impacted by Item# | Conformance Details |
|-----------------|----------------------|---------------------|
| aseXML_r20.xsd | All | Conforms |

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| Schema Filename | Impacted by Item# | Conformance Details |
|----------------------------|----------------------|---------------------|
| Event_r20.xsd | All | Conforms |
| Header_r20.xsd | All | Conforms |
| Transactions_r20.xsd | All | Conforms |
| MarketWholesale_r20.xsd | All | Conforms |
| GasMarketWholesale_r20.xsd | All | Conforms |

Table 3-1, Change Proposal Conformance Details

4 Issue Register

This section describes any issues that have arisen and any modifications that are made to the original proposal during the Change Process

4.1 Status of Issues

| Issue# | Description and Discussion | Status | Resolution |
|--------|---|--------|---|
| 1 | Forecast value needs ability to indicate time | Done | Addition of new attribute on forecast value to indicate time |
| 2 | GasInformationResponse needs ability ot provide Market Information | Done | Addition of MarketIntervalInfo type to GasInformationResponseData |
| 3 | LastModified element could contain empty string | Done | Addition of minLength restrictions on LastModifiedBy element |
| 4 | xsi:nill = false is explicitly applied to some instances of NMI element. 'false' is default and should not be explicitly defined | Done | Removal of xsi:nillable attribute for NMI |
| 5 | The proposal to add 'default' capability to transaction version attributes has not yet been agreed by the ASWG. As such it is not included in current draft releases. The issue will be considered at the ASWG meeting on 1st September, the outcome of which may entail an update to the draft schema. All ASWG Subscribers and Users are encouraged to consider the proposal and provide input to the discussion through their ASWG member. | Done | Following discussion on 1 Sep the ASWG has agreed to apply default version attributes to these new transactions, as well as the gas derived types in this instance. Whether this will be applied across the board for future new transactions is still undecided. |
| | The use of 'default' capability on derived Gas Types in these transactions has been approved. | | |

Table 4-1, Issues list

5 Resolution

The ASWG votes for endorsement of the options identified in section 2, and the voting results are forwarded to NEMMCO for approval. When 75% of those ASWG members who voted endorse a specific option, this represents an ASWG Recommendation for that option. NEMMCO will not reject an ASWG Recommendation without first consulting with the ASWG.

5.1 Draft Schema ASWG Vote

The results of the ASWG vote for the draft schema to be released are as follows:

Date of Vote: 18/8/2006

| Option | # Votes | % Vote |
|---|---------|--------|
| Option 1 (section 2.1) (see note below) | 6 | 86% |
| Abstained ¹ | 1 | 14% |
| Total Members Present | 7 | 100% |

Table 5-1, ASWG Vote Results for Draft Schema

Note: There is one unresolved issue that was excluded from the vote. See section 4 for details

5.2 Default Transaction Versions ASWG Vote

The results of the ASWG vote for the introduction of default version attributes at transaction level for these new transactions is as follows (unresolved issue from above):

Date of Vote: 1/9/2006

| Option | # Votes | % Vote |
|---|---------|--------|
| Option 1 (section 2.1) (see note below) | 6 | 100% |
| Abstained | | |
| Total Members Present | 6 | 100% |

Table 5-2, ASWG Vote Results for Default Transaction Versions

¹ Member abstained due to limited knowledge of aseXML at this point in time

5.3 Final Schema ASWG Vote

The results of the ASWG vote for the final schema to be released are as follows:

Date of Vote: 15/9/2006

| Option | # Votes | % Vote |
|------------------------|---------|--------|
| Option 1 (section 2.1) | 5 | 83% |
| Abstained ² | 1 | 17% |
| Total Members Present | 6 | 100% |

Table 5-3, ASWG Vote Results for Final Schema

 $^{^{\}rm 2}$ Member abstained due to limited knowledge of as eXML at this point in time