

Schema Release

AseXML Schema Working Group

Release r30

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Document History

Version	Date	Authors	Comments
1.0	14/June/2012	Greg Matthews, Origin Energy	Testing performed by Greg Matthews and Pius Kurian (AEMO)
1.1	19 June 2012	Pius Kurian; Greg Matthews; A. Screen	Updated to reflect CR 44 and voting

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1. Introduction

Version r30 of the aseXML schema has been developed from r29. This schema release is presented to aseXML Subscribers and Industry Participants for review, and to AEMO for approval, in accordance with the ASWG Terms of Reference.

2. Change Requests

The following ASWG Change Requests have been included in this schema release:

CR#	Description
44	Enumerations v5. This version aligns the length of certain fields already existing in v4 of Enumerations to those mandated by Australian Standards.
48 v1.2	This Change Proposal adds AMDQ transactions to Gas Market Wholesale Transactions to support the automation of the AMDQ Nomination services provided through the Web Exchanger application. This is a new form to support GWCF-VIC market changes related to tie breaking.

These Change Requests are available from the ASWG or the aseXML website (www.aseXML.com) for review by all impacted parties.

3. Impact Summary

This table identifies the files, transactions and versioned types that are changed in this schema, where:

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

Modified types	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
GasRetrieveRequestData	None	GasRetrieveRequestData	WholesaleRetrieveRequest	GasMarketWholesale_r30.xsd
GasRetrieveResponseData		GasRetrieveResponseData	WholesaleRetrieveResponse	
GasSearchRequestData		GasSearchRequestData	WholesaleSearchRequest	
GasSearchResponseData		GasSearchResponseData	WholesaleSearchResponse	
GasSubmitRequestData		GasSubmitRequestData	WholesaleSubmitRequest	
GasSubmitResponseData		GasSubmitResponseData	WholesaleSubmitResponse	
GasRetrieveTransactionType				
GasSearchTransactionType				
GasSubmissionTransactionType				
GasAgencyConfirmationHeaderType				
GasAgencyConfirmationSearchType				
GasAgencyNomHeaderType				
GasAgencyNominationSearchType				
GasIHNAMEQSType				
GasIHNTType				

4. File Change Summary

The following file changes are implemented to create the r30 schema version

4.1. aseXML

- Changed aseXML namespace to urn:aseXML:r30

4.2. Changes

Chg #	Item #	Description of change	Filename
1 (CR48)	1	R30 namespace declaration and included files (r30 suffixes) Changed version to r30 for Events and GasMarketWholesale files.	aseXML_r30.xsd
	2	Modified GasRetrieveRequestData GasRetrieveResponseData GasSearchRequestData GasSearchResponseData GasSubmitRequestData GasSubmitResponseData GasRetrieveTransactionType GasSearchTransactionType GasSubmissionTransactionType and added GasAmdqNominationSearchType GasAmdqNominationsType, GasANType, GasANHeaderType GasANAMDQSType, GasANAMDQType	GasMarketWholesale_r30.xsd
	3	Changed version number of GasMarketWholesale to "r30"	
	4	Changed version number of Events to "r30"	Events_r30.xsd
	5	New simple type: r30	
2 (CR44)	1	Element AustralianFlatOrUnitType has been restricted to 4 characters Element AustralianFloorOrLevelType has been restricted to 2 characters Element AustralianStreetType has been restricted to 4 characters Element AustralianStreetSuffix has been restricted to 2 characters Element AustralianPostalDeliveryType has been restricted to 11 characters	Enumerations.xsd (version 5)

Table 4-1 Change Log

4.2.1 Schema change description

The proposed schema change includes addition of new Web Service – AMDQ nomination service. The AMDQ nomination service is for submission of new AMDQ nomination and retrieval of historical data from the AEMO market system via an automated web services.

Enumerations file has been modified to include restrictions to some of the fields as detailed in Table 4-1.

GasMarketWholesale_r30.xsd

This file contains most types related to Gas Wholesale Transactions. In B30, the concept of CloseProximityPoint was introduced for Injection Hedge Nomination (IHN), Agency Injection Nomination (AIHN), AMDQ Nomination and Agency Injection Nomination Confirmation. Previously this was done on the meter and the element name used was NMI. This has been changed to CloseProximityPoint in all affected transactions.

It was decided to rename element AMDQ to IHN on Injection Hedge Nomination transaction.

Additional Types to support AMDQ transactions have been added to the choice of generic GasMarketWholesale transactions such as GasRetrieveRequestData, GasRetrieveResponseData, GasSearchRequestData, GasSearchResponseData, GasSubmitRequestData and GasSubmitResponseData.

Detailed changes to the file are given below:

- Added Two elements AmdqNominationHeaderId and AmdqNominationSearch to GasRetrieveRequestData
- Added element AmdqNominationSearch to GasRetrieveResponseData
- Added element AmdqNominationSearch to GasSearchRequestData
- Modified GasIHNTType, changed Element name AMDQ to IHN
- Modified GasIHNAMDQSType changed Element AMDQ to IHN
- Modified GasAgencyNominationSearchType, GasIHNAMDQType, GasAgencyNomHeaderType, GasAgencyConfirmationHeaderType, GasAgencyConfirmationSearchType, GasAgencyNominationSearchType to include CloseProximityPoint as the name of element instead of NMI

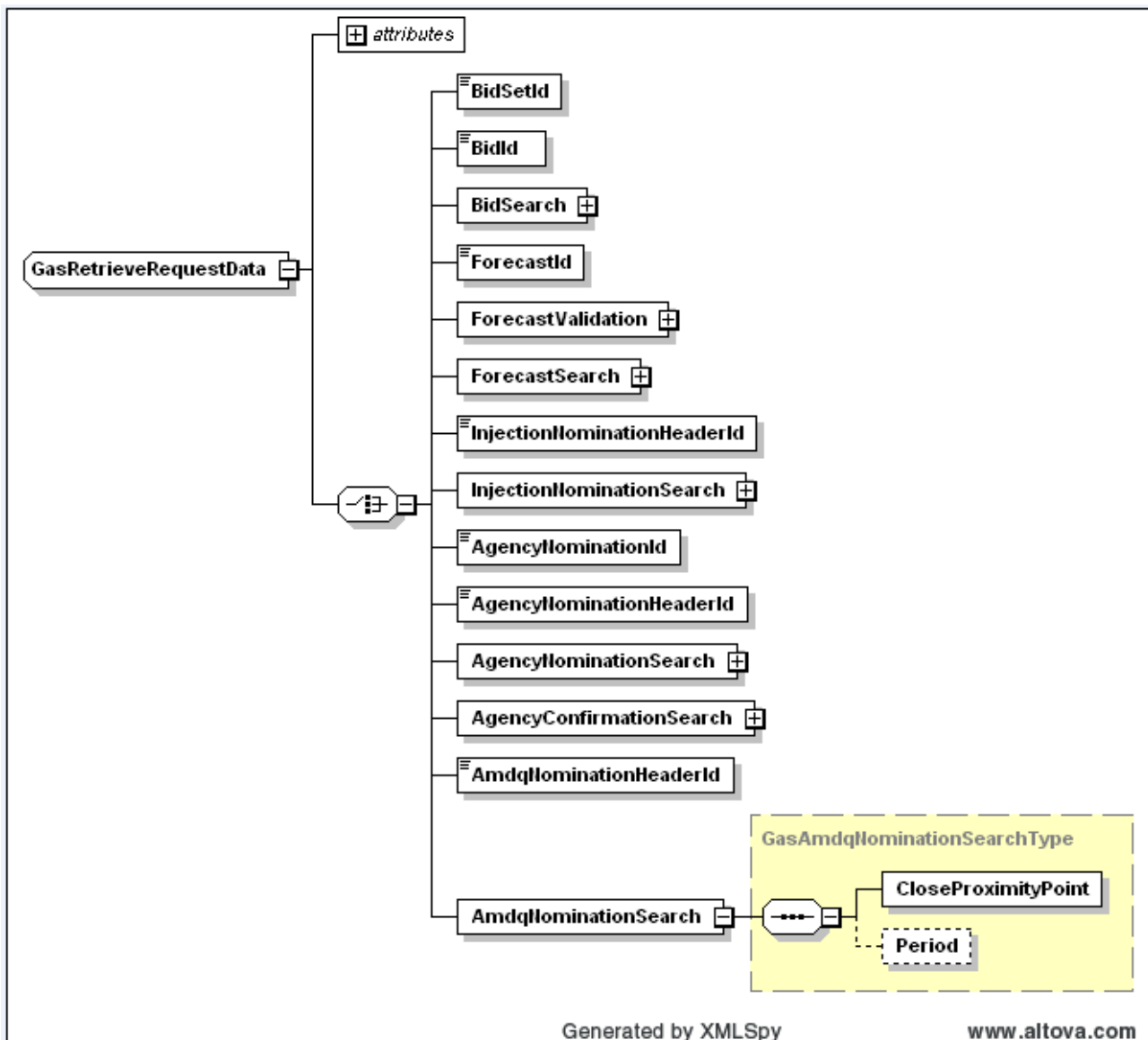


Figure 4-1 GasRetrieveRequestData

Figur

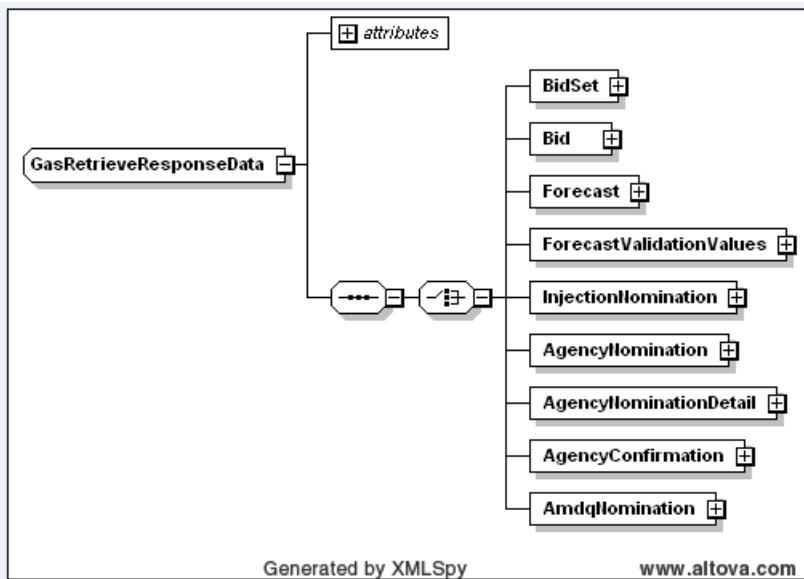


Figure 4-2 GasRetrieveResponseData

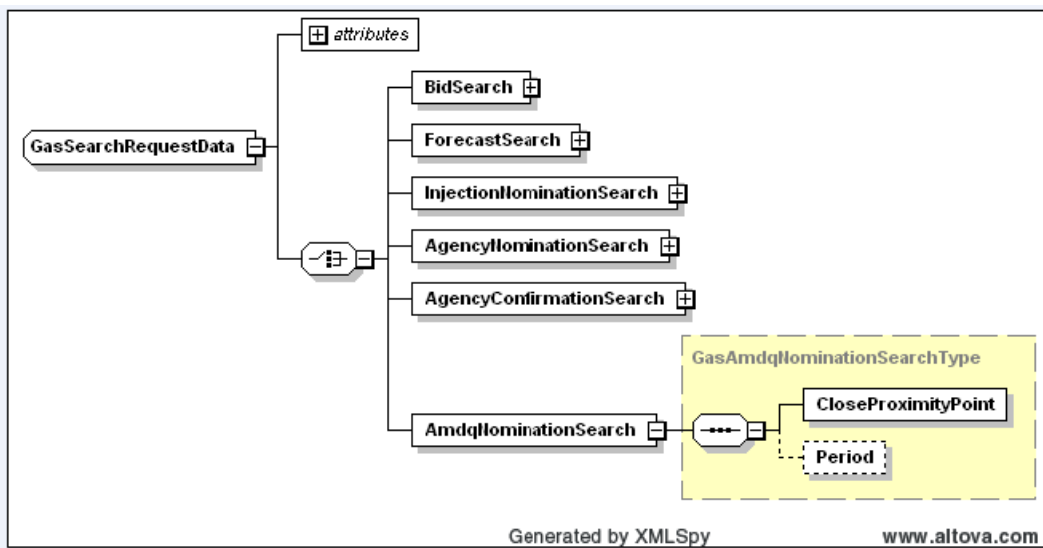


Figure 4-3 GasSearchRequestData

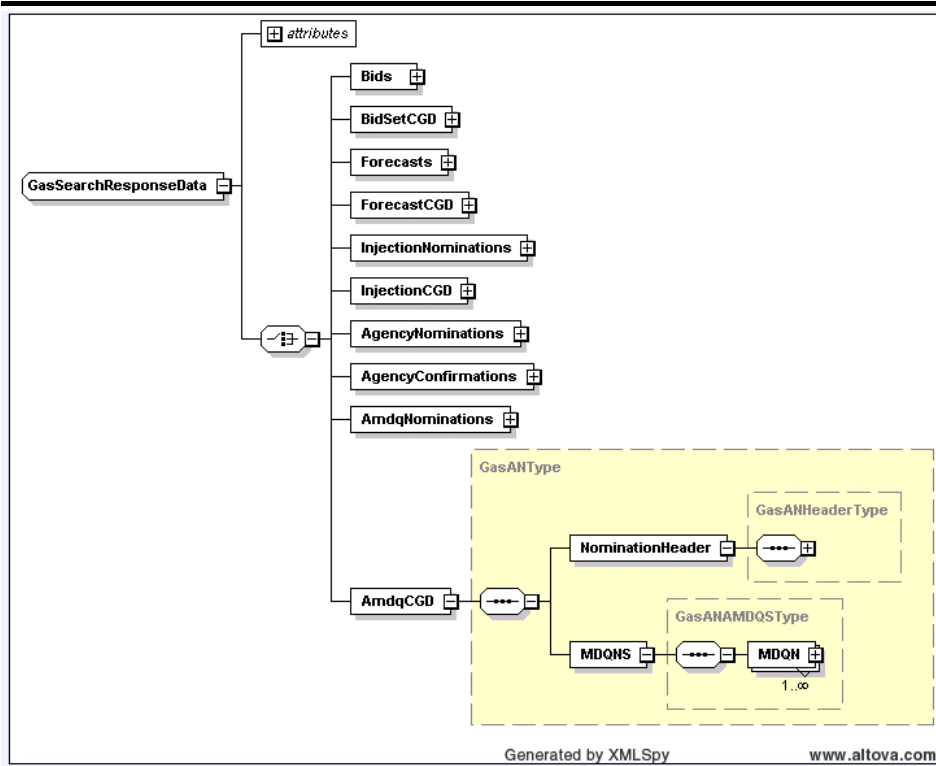


Figure 4-4 GasSearchResponseData - CGD

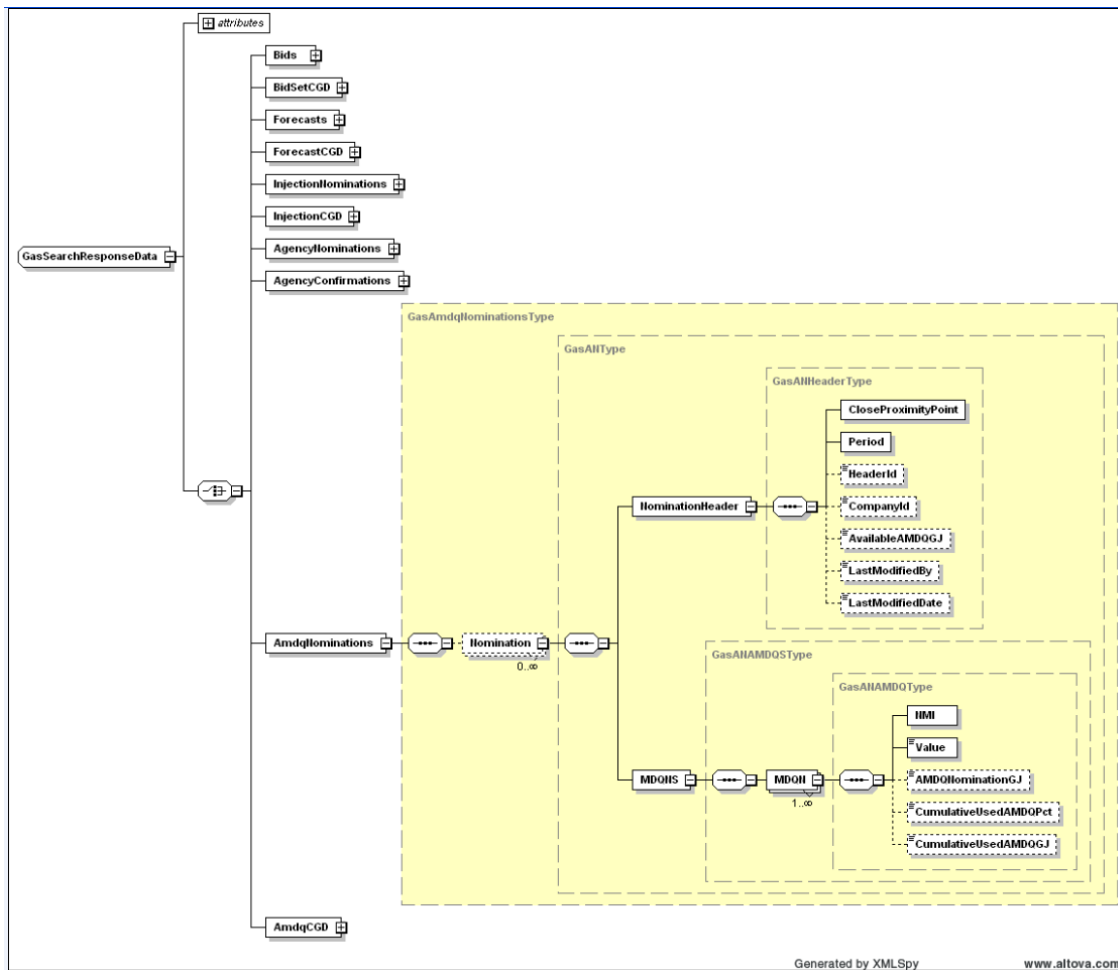


Figure 4-5 GasSearchResponseData - List

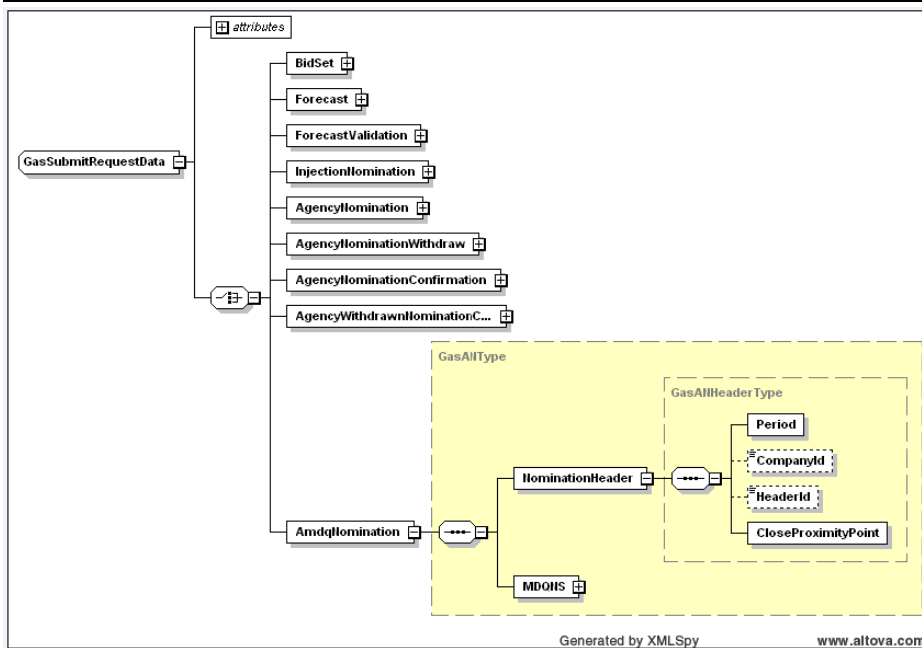


Figure 4-6 GasSubmitRequestData

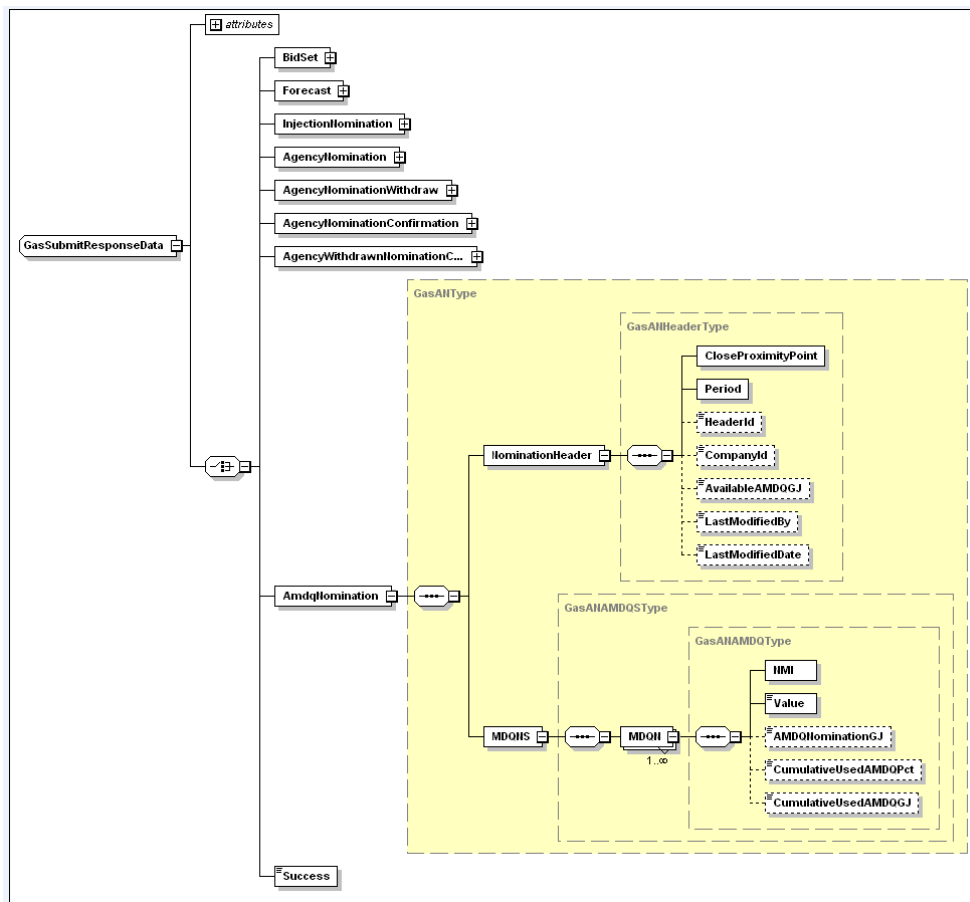


Figure 4-7 GasSubmitResponseData

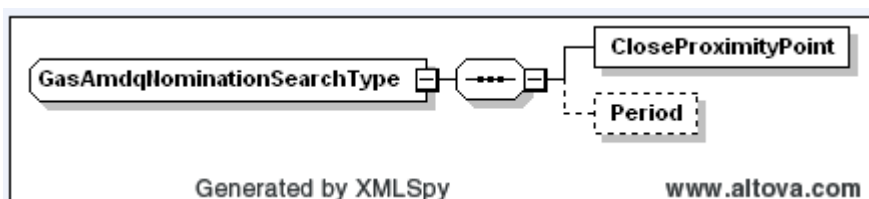


Figure 4-8 GasAmdqNominationSearchType

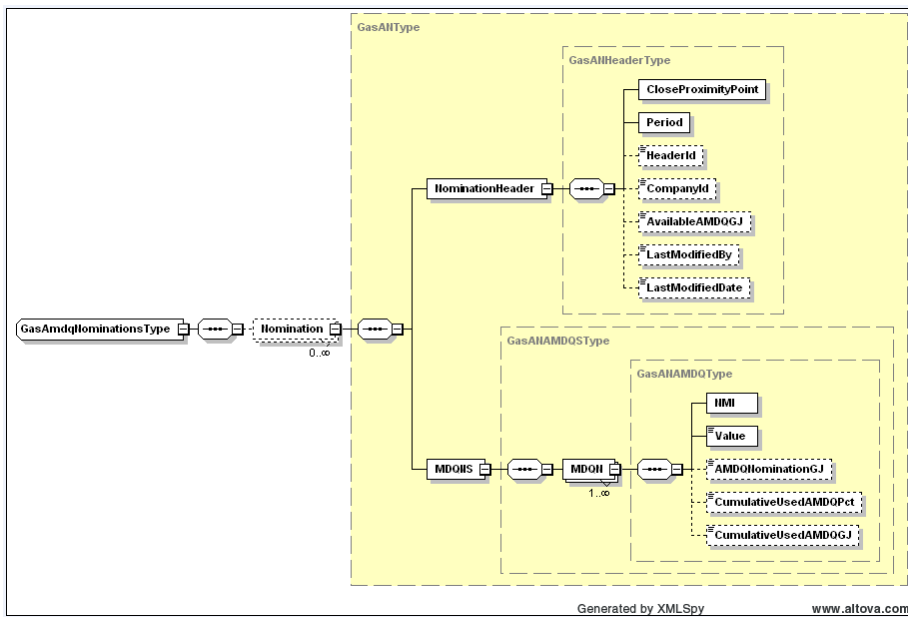


Figure 4-9 GasAmdqNominationsType

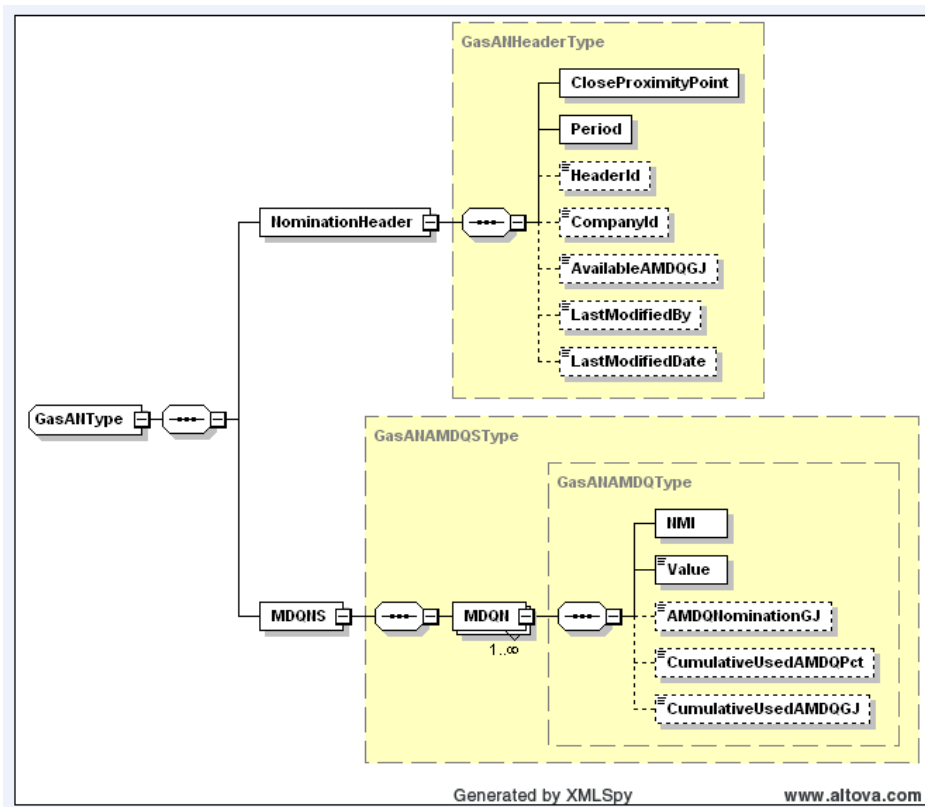


Figure 4-10 GasANType

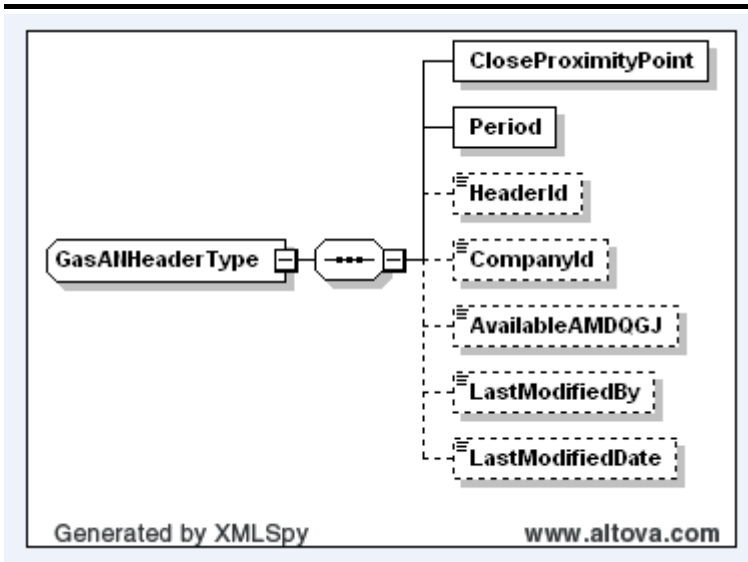


Figure 4-11 GasANHeaderType

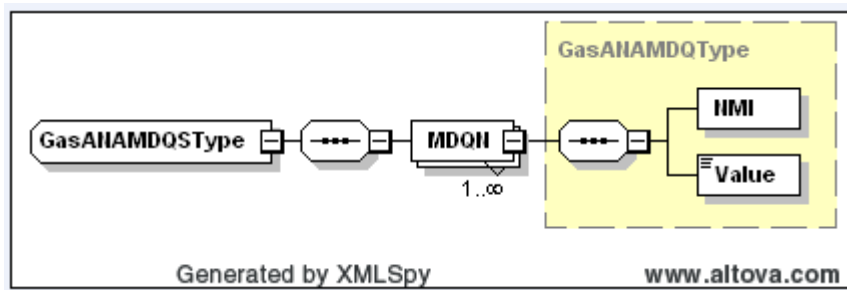


Figure 4-12 GasANAMDQSType

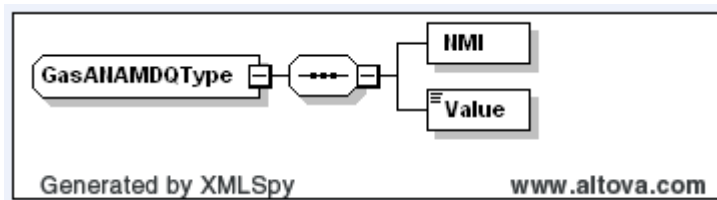


Figure 4-13 GasANAMDQSType

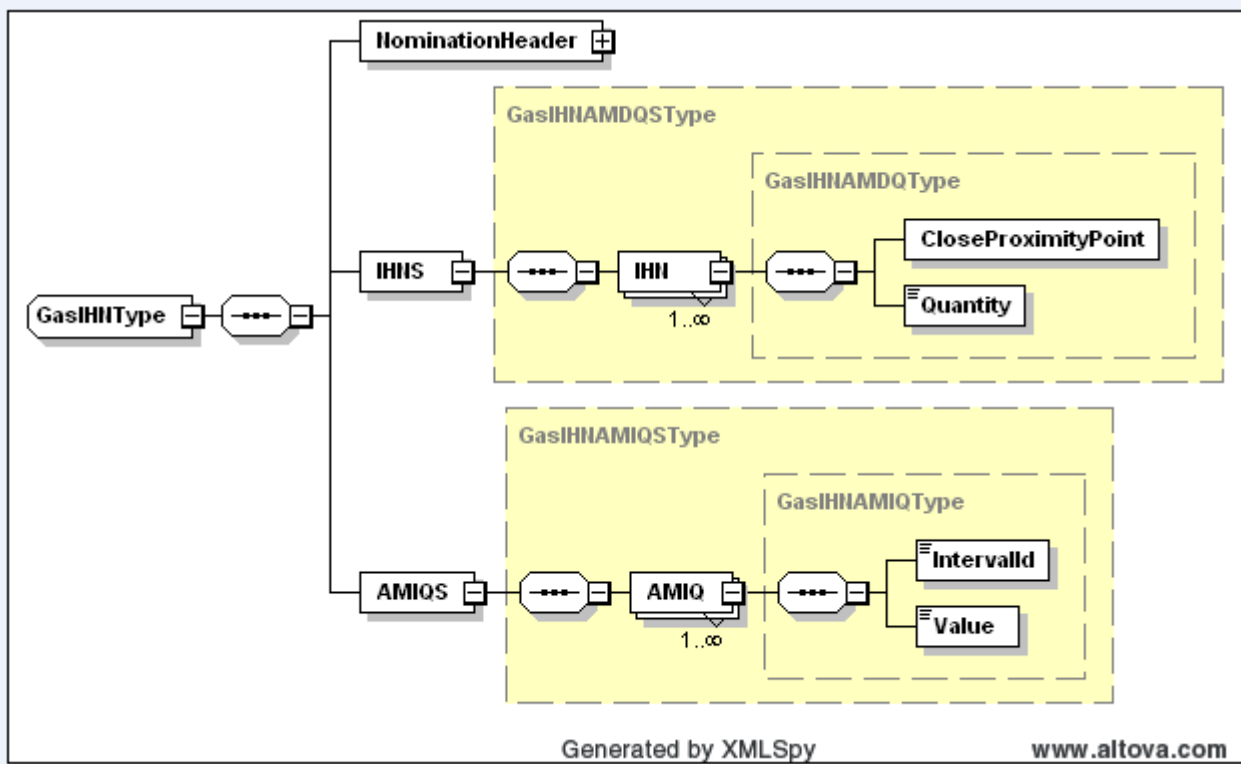


Figure 4-14 GasIHNTType

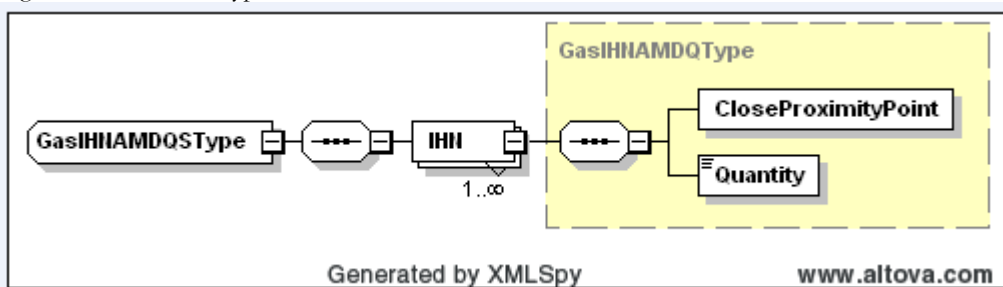


Figure 4-15 GasIHNAMDQType

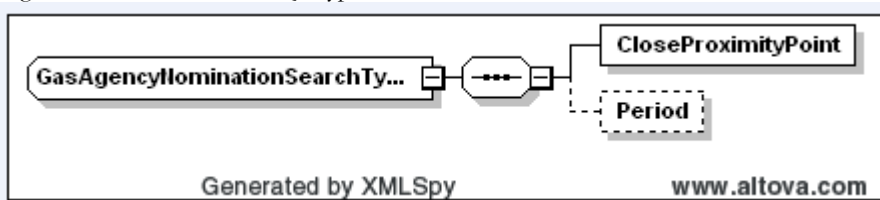


Figure 4-16 GasAgencyNominationSearchType

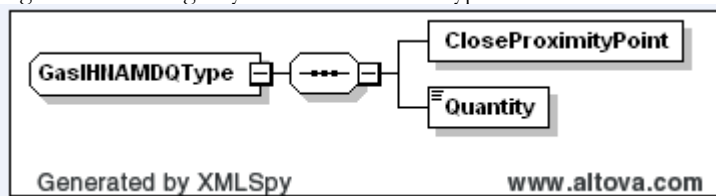


Figure 4-17 GasIHNAMDQType

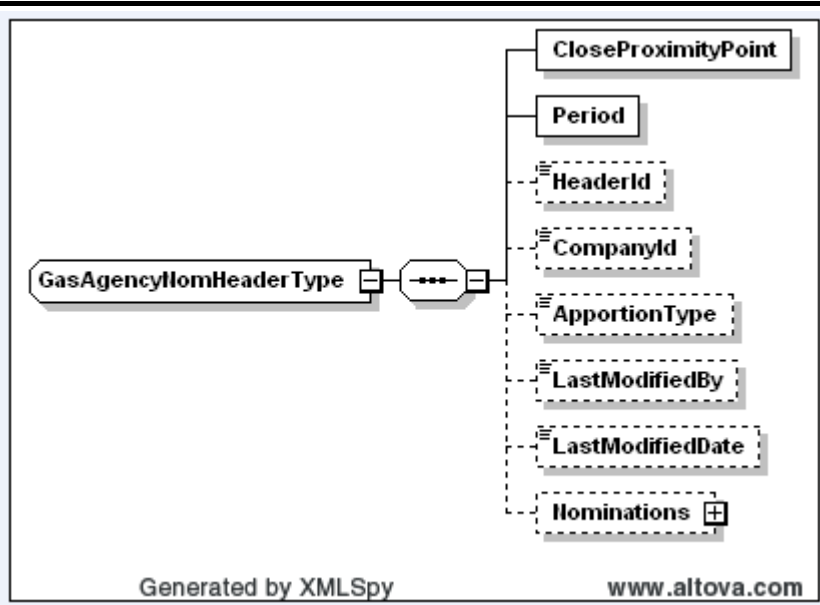


Figure 4-18 GasAgencyNomHeaderType

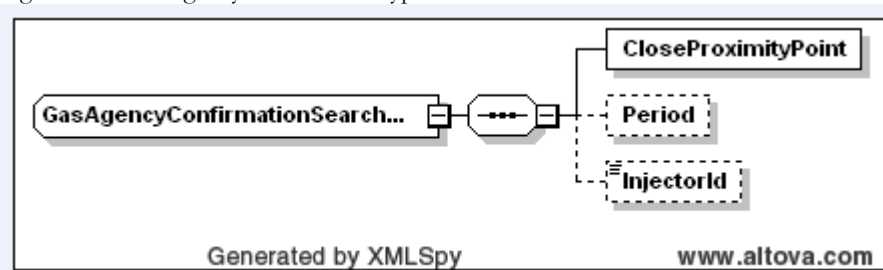


Figure 4-19 GasAgencyConfirmationSearchType

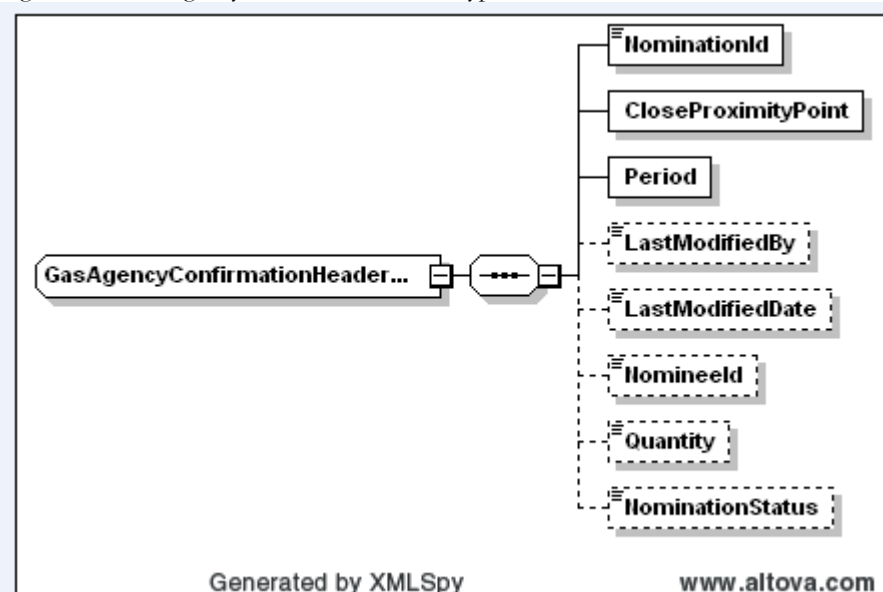


Figure 4-20 GasAgencyConfirmationHeaderType

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XMLSpy v2011 rel. 3 (http://www.altova.com) by Pius Kurian (Australian Energy Market Operator Ltd) -->
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:annotation>
    <xsd:documentation>This schema file is part of the aseXML schema set, and is subject to the terms and conditions that are detailed in the aseXML_r*.xsd schema file with which this file is used</xsd:documentation>
  </xsd:annotation>
  <!-- ===== -->
  <!-- Gas Specific Extensions on Market Transaction Payload Definitions -->
  <!-- ===== -->
  <xsd:complexType name="GasRetrieveRequestData">
```

```

<xsd:complexContent>
  <xsd:extension base="WholesaleRetrieveRequestData">
    <xsd:choice>
      <xsd:element name="BidSetId" type="xsd:long"/>
      <xsd:element name="BidId" type="xsd:long"/>
      <xsd:element name="BidSearch" type="GasBidSearchType"/>
      <xsd:element name="ForecastId" type="xsd:long"/>
      <xsd:element name="ForecastValidation" type="GasForecastValidationType"/>
      <xsd:element name="ForecastSearch" type="GasForecastSearchType"/>
      <xsd:element name="InjectionNominationHeaderId" type="xsd:long"/>
      <xsd:element name="InjectionNominationSearch" type="GasInjectionNominationSearchType"/>
      <xsd:element name="AgencyNominationId" type="xsd:long"/>
      <xsd:element name="AgencyNominationHeaderId" type="xsd:long"/>
      <xsd:element name="AgencyNominationSearch" type="GasAgencyNominationSearchType"/>
      <xsd:element name="AgencyConfirmationSearch" type="GasAgencyConfirmationSearchType"/>
      <xsd:element name="AmdqNominationHeaderId" type="xsd:long"/>
      <xsd:element name="AmdqNominationSearch" type="GasAmdqNominationSearchType"/>
    </xsd:choice>
    <xsd:attribute name="version" type="r30" use="optional" default="r30"/>
    <xsd:attribute name="contextType" type="GasRetrieveTransactionType" use="required"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasRetrieveResponseData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleRetrieveResponseData">
      <xsd:sequence>
        <xsd:choice>
          <xsd:element name="BidSet" type="GasBidSetType"/>
          <xsd:element name="Bid" type="GasBidType"/>
          <xsd:element name="Forecast" type="GasForecastType"/>
          <xsd:element name="ForecastValidationValues" type="GasForecastValuesType"/>
          <xsd:element name="InjectionNomination" type="GasIHNTType"/>
          <xsd:element name="AgencyNomination" type="GasAgencyNomHeaderType"/>
          <xsd:element name="AgencyNominationDetail" type="GasAgencyNomDetailType"/>
          <xsd:element name="AgencyConfirmation" type="GasAgencyConfirmationHeaderType"/>
          <xsd:element name="AmdqNomination" type="GasANType"/>
        </xsd:choice>
      </xsd:sequence>
      <xsd:attribute name="version" type="r30" use="optional" default="r30"/>
      <xsd:attribute name="contextType" type="GasRetrieveTransactionType" use="required"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasSearchRequestData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleSearchRequestData">
      <xsd:choice>
        <xsd:element name="BidSearch" type="GasBidSearchType"/>
        <xsd:element name="ForecastSearch" type="GasForecastSearchType"/>
        <xsd:element name="InjectionNominationSearch" type="GasInjectionNominationSearchType"/>
        <xsd:element name="AgencyNominationSearch" type="GasAgencyNominationSearchType"/>
        <xsd:element name="AgencyConfirmationSearch" type="GasAgencyConfirmationSearchType"/>
        <xsd:element name="AmdqNominationSearch" type="GasAmdqNominationSearchType"/>
      </xsd:choice>
      <xsd:attribute name="version" type="r30" use="optional" default="r30"/>
      <xsd:attribute name="contextType" type="GasSearchTransactionType" use="required"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasSearchResponseData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleSearchResponseData">
      <xsd:choice>
        <xsd:element name="Bids" type="GasBidsType"/>
        <xsd:element name="BidSetCGD" type="GasBidSetType"/>
        <xsd:element name="Forecasts" type="GasForecastsType"/>
        <xsd:element name="ForecastCGD" type="GasForecastType"/>
        <xsd:element name="InjectionNominations" type="GasInjectionNominationsType"/>
        <xsd:element name="InjectionCGD" type="GasIHNTType"/>
        <xsd:element name="AgencyNominations" type="GasAgencyNominationsType"/>
        <xsd:element name="AgencyConfirmations" type="GasAgencyConfirmationsType"/>
        <xsd:element name="AmdqNominations" type="GasAmdqNominationsType"/>
        <xsd:element name="AmdqCGD" type="GasANType"/>
      </xsd:choice>
      <xsd:attribute name="version" type="r30" use="optional" default="r30"/>
      <xsd:attribute name="contextType" type="GasSearchTransactionType" use="required"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

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    </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasSubmitRequestData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleSubmitRequestData">
      <xsd:choice>
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        <xsd:element name="Forecast" type="GasForecastType"/>
        <xsd:element name="ForecastValidation" type="GasForecastValidationType"/>
        <xsd:element name="InjectionNomination" type="GasIHNTType"/>
        <xsd:element name="AgencyNomination" type="GasAgencyNomHeaderType"/>
        <xsd:element name="AgencyNominationWithdraw" type="GasAgencyConfirmationType"/>
        <xsd:element name="AgencyNominationConfirmation" type="GasAgencyConfirmationType"/>
        <xsd:element name="AgencyWithdrawnNominationConfirmed" type="GasAgencyConfirmationType"/>
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      </xsd:choice>
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      <xsd:attribute name="applyTo" type="GasSubmissionType" use="optional"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasSubmitResponseData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleSubmitResponseData">
      <xsd:choice>
        <xsd:element name="BidSet" type="GasBidSetType"/>
        <xsd:element name="Forecast" type="GasForecastType"/>
        <xsd:element name="InjectionNomination" type="GasIHNTType"/>
        <xsd:element name="AgencyNomination" type="GasAgencyNomHeaderType"/>
        <xsd:element name="AgencyNominationWithdraw" type="GasAgencyNomHeaderType"/>
        <xsd:element name="AgencyNominationConfirmation" type="GasAgencyConfirmationHeaderType"/>
        <xsd:element name="AgencyWithdrawnNominationConfirmed"
type="GasAgencyConfirmationHeaderType"/>
        <xsd:element name="AmdqNomination" type="GasANType"/>
        <xsd:element name="Success" type="xsd:boolean"/>
      </xsd:choice>
      <xsd:attribute name="version" type="r30" use="optional" default="r30"/>
      <xsd:attribute name="contextType" type="GasSubmissionTransactionType" use="required"/>
      <xsd:attribute name="applyTo" type="GasSubmissionType" use="optional"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasInformationRequestData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleInformationRequestData">
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    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasInformationResponseData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleInformationResponseData">
      <xsd:choice>
        <xsd:element name="CurrentMarketDate" type="xsd:dateTime"/>
        <xsd:element name="MarketIntervalInfo" type="MarketIntervalInfoType"/>
      </xsd:choice>
      <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
      <xsd:attribute name="contextType" type="GasInformationTransactionType" use="required"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<!-- ===== -->
<!-- Gas Specific Complex Types -->
<!-- ===== -->
<xsd:complexType name="GasBidSetsType">
  <xsd:sequence>
    <xsd:element name="BidSet" type="GasBidSetType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasBidSetType">
  <xsd:sequence>
    <xsd:element name="BidType" type="GasInjectWithdrawType"/>
    <xsd:element name="Period" type="Period"/>
    <xsd:element name="NMI" type="NMI"/>
    <xsd:element name="Bids" type="GasBidsType"/>
    <xsd:element name="BidSetId" type="xsd:long" minOccurs="0"/>
  </xsd:sequence>

```



```

    <xsd:element name="CompanyId" type="xsd:int" minOccurs="0"/>
    <xsd:element name="LastModifiedBy" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:whiteSpace value="collapse"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasBidsType">
  <xsd:sequence>
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  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasBidType">
  <xsd:sequence>
    <xsd:element name="BidSteps" type="GasBidStepsType"/>
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    <xsd:element name="BidId" type="xsd:long" minOccurs="0"/>
    <xsd:element name="HorizonIndex" type="xsd:int" minOccurs="0"/>
    <xsd:element name="MinimumDailyQuantity" type="xsd:int" minOccurs="0"/>
    <xsd:element name="LastModifiedBy" minOccurs="0">
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          <xsd:whiteSpace value="collapse"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
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  </xsd:sequence>
</xsd:complexType>
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  <xsd:sequence>
    <xsd:element name="Step" type="GasBidStepNumberType"/>
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          <xsd:minLength value="1"/>
          <xsd:whiteSpace value="collapse"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
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</xsd:complexType>
<xsd:complexType name="GasBidSearchType">
  <xsd:sequence>
    <xsd:element name="BidType" type="GasInjectWithdrawType"/>
    <xsd:element name="NMI" type="NMI"/>
    <xsd:element name="Period" type="Period" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasForecastValidationType">
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    <xsd:element name="NMI" type="NMI" minOccurs="0"/>
    <xsd:element name="ValidationValues" type="GasForecastValueType" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasForecastSearchType">
  <xsd:sequence>
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  </xsd:sequence>
</xsd:complexType>

```

```

<xsd:complexType name="GasForecastsType">
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  </xsd:sequence>
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    <xsd:element name="NMI" type="NMI" minOccurs="0"/>
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          <xsd:minLength value="1"/>
          <xsd:whiteSpace value="collapse"/>
        </xsd:restriction>
      </xsd:simpleType>
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</xsd:complexType>
<xsd:complexType name="GasForecastValuesType">
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    <xsd:element name="ForecastValue" minOccurs="24" maxOccurs="24">
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            <xsd:attribute name="hour" type="xsd:time"/>
          </xsd:extension>
        </xsd:simpleContent>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasInjectionNominationSearchType">
  <xsd:sequence>
    <xsd:element name="Period" type="Period" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasInjectionNominationsType">
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    <xsd:element name="Nomination" type="GasIHNTType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNTType">
  <xsd:sequence>
    <xsd:element name="NominationHeader" type="GasIHNHeaderType"/>
    <xsd:element name="IHNS" type="GasIHNAMDQSType"/>
    <xsd:element name="AMIQS" type="GasIHNAMIQSType"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNHeaderType">
  <xsd:sequence>
    <xsd:element name="Period" type="Period"/>
    <xsd:element name="CompanyId" type="xsd:int" minOccurs="0"/>
    <xsd:element name="HeaderId" type="xsd:long" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNAMDQSType">
  <xsd:sequence>
    <xsd:element name="IHN" type="GasIHNAMDQSType" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNAMDQSType">
  <xsd:sequence>
    <xsd:element name="CloseProximityPoint" type="NMI"/>
    <xsd:element name="Quantity" type="xsd:int"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNAMIQSType">
  <xsd:sequence>
    <xsd:element name="AMIQ" type="GasIHNAMIQSType" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNAMIQSType">

```

```

    <xsd:sequence>
      <xsd:element name="IntervalId" type="xsd:int"/>
      <xsd:element name="Value" type="xsd:float"/>
    </xsd:sequence>
  </xsd:complexType>
<xsd:complexType name="GasAgencyNominationSearchType">
  <xsd:sequence>
    <xsd:element name="CloseProximityPoint" type="NMI"/>
    <xsd:element name="Period" type="Period" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyNominationsType">
  <xsd:sequence>
    <xsd:element name="AgencyNomination" type="GasAgencyNomHeaderType" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyNomHeaderType">
  <xsd:sequence>
    <xsd:element name="CloseProximityPoint" type="NMI"/>
    <xsd:element name="Period" type="Period"/>
    <xsd:element name="HeaderId" type="xsd:long" minOccurs="0"/>
    <xsd:element name="CompanyId" type="xsd:int" minOccurs="0"/>
    <xsd:element name="ApportionType" type="GasAgencyApportionmentType" minOccurs="0"/>
    <xsd:element name="LastModifiedBy" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:whiteSpace value="collapse"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="Nominations" type="GasAgencyNomDetailsType" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyNomDetailsType">
  <xsd:sequence>
    <xsd:element name="Nomination" type="GasAgencyNomDetailType" maxOccurs="10"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyNomDetailType">
  <xsd:sequence>
    <xsd:element name="NomineeId" type="xsd:int"/>
    <xsd:element name="Quantity" type="xsd:int"/>
    <xsd:element name="HeaderId" type="xsd:long" minOccurs="0"/>
    <xsd:element name="NominationId" type="xsd:long" minOccurs="0"/>
    <xsd:element name="PreferenceOrder" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:int">
          <xsd:minInclusive value="0"/>
          <xsd:maxInclusive value="10"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="NominationStatus" type="GasNominationStatusType" minOccurs="0"/>
    <xsd:element name="LastModifiedBy" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:whiteSpace value="collapse"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyNomStatusHistoryType">
  <xsd:sequence>
    <xsd:element name="HeaderId" type="xsd:long" minOccurs="0"/>
    <xsd:element name="NominationId" type="xsd:long" minOccurs="0"/>
    <xsd:element name="NominationStatus" type="GasNominationStatusType" minOccurs="0"/>
    <xsd:element name="NominationDate" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="NominationConfirmedDate" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="WithdrawalDate" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="WithdrawalConfirmedDate" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="CreatedDate" type="xsd:dateTime" minOccurs="0"/>
  </xsd:sequence>

```

```

</xsd:complexType>
<xsd:complexType name="GasAgencyConfirmationsType">
  <xsd:sequence>
    <xsd:element name="AgencyConfirmation" type="GasAgencyConfirmationHeaderType" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyConfirmationHeaderType">
  <xsd:sequence>
    <xsd:element name="NominationId" type="xsd:long"/>
    <xsd:element name="CloseProximityPoint" type="NMI"/>
    <xsd:element name="Period" type="Period"/>
    <xsd:element name="LastModifiedBy" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
          <xsd:whiteSpace value="collapse"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
    <xsd:element name="NomineeId" type="xsd:int" minOccurs="0"/>
    <xsd:element name="Quantity" type="xsd:int" minOccurs="0"/>
    <xsd:element name="NominationStatus" type="GasNominationStatusType" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyConfirmationType">
  <xsd:sequence>
    <xsd:element name="NominationId" type="xsd:long"/>
    <xsd:element name="CompanyId" type="xsd:int" minOccurs="0"/>
    <xsd:element name="NominationStatus" type="GasNominationStatusType" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAgencyConfirmationSearchType">
  <xsd:sequence>
    <xsd:element name="CloseProximityPoint" type="NMI"/>
    <xsd:element name="Period" type="Period" minOccurs="0"/>
    <xsd:element name="InjectorId" type="xsd:int" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIntervalInfoType">
  <xsd:sequence>
    <xsd:element name="Id" type="xsd:int"/>
    <xsd:element name="CutoffTime" type="xsd:dateTime"/>
    <xsd:element name="PublishTime" type="xsd:dateTime"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MarketIntervalInfoType">
  <xsd:sequence>
    <xsd:element name="CurrentInterval" type="GasIntervalInfoType"/>
    <xsd:element name="NextInterval" type="GasIntervalInfoType"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAmdqNominationSearchType">
  <xsd:sequence>
    <xsd:element name="CloseProximityPoint" type="NMI"/>
    <xsd:element name="Period" type="Period" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasAmdqNominationsType">
  <xsd:sequence>
    <xsd:element name="Nomination" type="GasANType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasANType">
  <xsd:sequence>
    <xsd:element name="NominationHeader" type="GasANHeaderType"/>
    <xsd:element name="MDQNS" type="GasANAMDQSType"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasANHeaderType">
  <xsd:sequence>
    <xsd:element name="CloseProximityPoint" type="NMI"/>
    <xsd:element name="Period" type="Period"/>
    <xsd:element name="HeaderId" type="xsd:long" minOccurs="0"/>
    <xsd:element name="CompanyId" type="xsd:int" minOccurs="0"/>
    <xsd:element name="AvailableAMDQGJ" type="xsd:float" minOccurs="0"/>
    <xsd:element name="LastModifiedBy" minOccurs="0"/>
  </xsd:sequence>

```

```

        <xsd:element name="LastModifiedDate" minOccurs="0"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasANAMDQType">
    <xsd:sequence>
        <xsd:element name="MDQN" type="GasANAMDQType" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasANAMDQType">
    <xsd:sequence>
        <xsd:element name="NMI" type="NMI"/>
        <xsd:element name="Value" type="xsd:float"/>
        <xsd:element name="AMDQNominationGJ" type="xsd:float" minOccurs="0"/>
        <xsd:element name="CumulativeUsedAMDQPct" type="xsd:float" nillable="true" minOccurs="0"/>
        <xsd:element name="CumulativeUsedAMDQGJ" type="xsd:float" nillable="true" minOccurs="0"/>
    </xsd:sequence>
</xsd:complexType>
<!-- ===== -->
<!-- Gas Specific Simple Types -->
<!-- ===== -->
<xsd:simpleType name="GasRetrieveTransactionType">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Bid"/>
        <xsd:enumeration value="BidSet"/>
        <xsd:enumeration value="BidSetCGD"/>
        <xsd:enumeration value="Forecast"/>
        <xsd:enumeration value="ForecastCGD"/>
        <xsd:enumeration value="ForecastValidation"/>
        <xsd:enumeration value="InjectionNomination"/>
        <xsd:enumeration value="InjectionNominationCGD"/>
        <xsd:enumeration value="AgencyNominationHeader"/>
        <xsd:enumeration value="AgencyNominationDetail"/>
        <xsd:enumeration value="AgencyConfirmationHeader"/>
        <xsd:enumeration value="AmdqNomination"/>
        <xsd:enumeration value="AmdqNominationCGD"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="GasSearchTransactionType">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Bid"/>
        <xsd:enumeration value="Forecast"/>
        <xsd:enumeration value="InjectionNomination"/>
        <xsd:enumeration value="AgencyNomination"/>
        <xsd:enumeration value="AgencyConfirmation"/>
        <xsd:enumeration value="AmdqNomination"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="GasSubmissionType">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Current Day"/>
        <xsd:enumeration value="Day Plus One"/>
        <xsd:enumeration value="Day Plus Two"/>
        <xsd:enumeration value="Standing"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="GasSubmissionTransactionType">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Bid"/>
        <xsd:enumeration value="Forecast"/>
        <xsd:enumeration value="ForecastValidation"/>
        <xsd:enumeration value="InjectionNomination"/>
        <xsd:enumeration value="AgencyNomination"/>
        <xsd:enumeration value="AgencyNominationConfirmation"/>
        <xsd:enumeration value="AgencyWithdrawnNominationConfirmed"/>
        <xsd:enumeration value="AgencyNominationWithdraw"/>
        <xsd:enumeration value="AmdqNomination"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="GasInformationTransactionType">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="CGD"/>
        <xsd:enumeration value="IntervalInfo"/>
    </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="GasInjectWithdrawType">
    <xsd:restriction base="xsd:string">
        <xsd:enumeration value="INJEC"/>
        <xsd:enumeration value="CTLW"/>
    </xsd:restriction>

```

```

    </xsd:restriction>
  </xsd:simpleType>
  <xsd:simpleType name="GasBidStepNumberType">
    <xsd:restriction base="xsd:int">
      <xsd:minInclusive value="1"/>
      <xsd:maxInclusive value="10"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:simpleType name="GasNominationStatusType">
    <xsd:annotation>
      <xsd:documentation>NOMD:Agency Nominated, NCON:Nomination Confirmed, NWDN:Nomination Withdrawn,
WCON:Nomination Withdrawn Confirmed</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="NOMD"/>
      <xsd:enumeration value="NCON"/>
      <xsd:enumeration value="NWDN"/>
      <xsd:enumeration value="WCON"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:simpleType name="GasAgencyApportionmentType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="PROR"/>
      <xsd:enumeration value="PREF"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:schema>

```

Events_r30.xsd

Text added is given in bold:

... unmodified text removed for brevity ...

```

    <xsd:simpleType name="r30">
      <xsd:annotation>
        <xsd:documentation>Purpose - Release r30 identifier. This release adds AMDQ Transactions
to Gas Wholesale Market to support Web Exchanger Web Services</xsd:documentation>
      </xsd:annotation>
      <xsd:restriction base="ReleaseIdentifier">
        <xsd:enumeration value="r30"/>
      </xsd:restriction>
    </xsd:simpleType>

```

aseXML_r30.xsd

Text added is given in bold:

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="urn:aseXML:r30" xmlns:xsd="http://www.w3.org/2001/XMLSchema" targetNamespace="urn:aseXML:r30">
  <xsd:annotation>
    <xsd:documentation>

```

Purpose — Top level aseXML schema

... unmodified text removed for brevity ...

```

</xsd:documentation>
  </xsd:annotation>
  <del><xsd:include schemaLocation="Events_r29.xsd"></del>
  <xsd:include schemaLocation="Events_r30.xsd">
    <xsd:annotation>
      <xsd:documentation>

```

Purpose — Include data types for status reporting

```

    </xsd:documentation>
  </xsd:annotation>
</xsd:include>

```

... unmodified text removed for brevity ...

```

</xsd:annotation>
</xsd:include>
<del><xsd:include schemaLocation="GasMarketWholesale_r20.xsd"></del>
<xsd:include schemaLocation=" GasMarketWholesale _r30.xsd">
  <xsd:annotation>
    <xsd:documentation>

```

Purpose - Include data types for gas market wholesale functionality.

... *unmodified text removed for brevity* ...

Enumerations.xsd

... *unmodified text removed for brevity* ...

```
-- WKSH - WORKSHOP
Version 5.0 additions
- Element AustralianFlatOrUnitType has been restricted to 4 characters
</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="4"/>
    <xsd:enumeration value="ANT"/>
  </xsd:restriction>
</xsd:annotation>
```

... *unmodified text removed for brevity* ...

```
-- SB - SUB-BASEMENT
-- Version 5.0 additions
-- Element AustralianFloorOrLevelType has been restricted to 2 characters
</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="2"/>
    <xsd:enumeration value="B"/>
    <xsd:enumeration value="FL"/>
  </xsd:restriction>
</xsd:annotation>
```

... *unmodified text removed for brevity* ...

```
-- WTWY - WATERWAY
-- WWAY - WATERWAY
-- Version 5.0 additions
-- Element AustralianStreetType has been restricted to 4 characters
</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="4"/>
    <xsd:enumeration value="ACCS"/>
    <xsd:enumeration value="ALLY"/>
  </xsd:restriction>
</xsd:annotation>
```

... *unmodified text removed for brevity* ...

```
-- OT - OUTER
-- Version 5.0 additions
-- Element AustralianStreetSuffix has been restricted to 2 characters
</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="2"/>
    <xsd:enumeration value="CN"/>
  </xsd:restriction>
</xsd:annotation>
```

... *unmodified text removed for brevity* ...

Purpose - Define postal delivery types as per Australian Standard AS4590:2006
 Detail - There are several additions in this list over and above what is in AS4590:2006. The extra types have been derived from the Australia Post AMAS standard.

```
-- Version 5.0 additions
-- Element AustralianPostalDeliveryType has been restricted to 11 characters
</xsd:documentation>
</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="11"/>
    <xsd:enumeration value="CARE PO"/>
  </xsd:restriction>
</xsd:annotation>
```

... *unmodified text removed for brevity* ...

5. Schema Manifest

The table below shows the schema files included in this release. Files that have been added, removed or modified for this release are marked.

File	Modified
Acknowledgements_r15.xsd	
aseXML_r30.xsd	Yes
BAR_r15.xsd	
BulkDataTool_r15.xsd	

File	Modified
CATSReports_r28.xsd	
CATSTableReplication_r29.xsd	
ClientInformation_r15.xsd	
Common_r29.xsd	
CustomerDetails_r19.xsd	
CustomerTransfer_r29.xsd	
ElectricityHighSpeedMonitoring_r26.xsd	
ElectricityMasterStandingData.xsd	
ElectricityMMS_r28.xsd	
Electricity_r25.xsd	
Enumerations.xsd	Yes
Events_r30.xsd	Yes
Faults_r15.xsd	
GasMarketWholesale_r30.xsd	Yes
Gas_r29.xsd	
Header_r28.xsd	
HighSpeedMonitoring_r26.xsd	
MarketWholesale_r20.xsd	
MDMTRReports_r15.xsd	
MeterDataManagement_r29.xsd	
NetworkBilling_r15.xsd	
NMIDataAccess_r17.xsd	
NOSAssessment_r28.xsd	
NOSBooking_r28.xsd	
NOSCommon_r28.xsd	
NOSEquipment_r18.xsd	
OneWayNotification_r25.xsd	
Reports_r22.xsd	
ServiceOrder_r17.xsd	
TableReplication_r15.xsd	
Transactions_r28.xsd	

6. Schema Test

6.1. Agreed Test Platforms

These are the platforms that we agree to test:

- XMLSpy 2010
- MSXML4
- MSXML6
- Xerces 2.9.1

6.2. Test

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

6.2.1 Test Platforms

Supplied samples have been tested using the following parsers:

- All agreed test platforms as per section 6.1
- Xerces 2.2.1

6.2.2 Test Cases

GasRetrieveRequestData_AMDQNominationCGD.xml
 GasRetrieveRequestData_AMDQId.xml
 GasRetrieveRequestData_AMDQSearch.xml
 GasRetrieveResponseData_AMDQ.xml
 GasRetrieveResponseData_AMDQNominationCGD.xml
 GasSearchRequestData_AMDQNomination.xml
 GasSearchResponseData_AmdqNomination.xml
 GasSubmitRequestData_AmdqNomination.xml
 GasSubmitResponseData_AmdqNomination.xml
 GasRetrieveResponseData_InjectionNomination.xml
 GasSearchResponseData_AgencyNomination.xml
 GasSubmitRequestData_AgencyNomination.xml
 GasSubmitRequestData_AgencyNominationConfirmation.xml
 GasSubmitRequestData_IHN.xml
 GasSubmitResponseData_AgencyNominationConfirmation.xml
 Invalid-GasSubmitResponseData_AmdqNomination.xml
 InvalidGasRetrieveRequestData_AMDQId.xml

6.2.3 Test Process

1. Obtain a copy of the 5 existing regression test suite XML files
 - a. nem_samples_r29 zip.zip
 - b. nem_wholesale_samples_r29 zip.zip
 - c. nemb2b_samples_r29 zip.zip
 - d. sawa_samples_r29 zip.zip
 - e. vicgas_samples_r29 zip.zip
2. Obtain a copy of the new R30 test suite XML files
3. Unzip all test XML files a folder
4. Replace “xmlns:ase=urn:aseXML:r29” with “xmlns:ase=urn:aseXML:r30”
5. Replace “xsi:schemaLocation=urn:aseXML:r29
http://www.nemmco.com.au/aseXML/schemas/r29/aseXML_r29.xsd” with
 “xsi:schemaLocation=urn:aseXML:r30 d:/r30schema/aseXML_r30.xsd”
6. Check every single test XML file individually to detect variances in the above xsi:schemaLocation approach, e.g. hardcoded “O:/<filename>” instances and other occurrences not picked up by the

standard search/replace above need to be manually fixed. It would be good if a single search/replace could be used for this step, and the test XML files had consistent headers.

7. Run the test process against the XML Toolkits specified in 6.2.1 ~~Test Platforms~~ ~~Test Platforms~~.
8. Check output log for any successful parse results, as well as expected or unexpected errors.

6.2.4 Test Results

All OK on all Test Platforms, see section 6.2.1

- All test XML files intended to fail, typically with "Invalid" as part of the file name, failed as expected.
- All other test files passed with no parse error.

7. ASWG Endorsement

The ASWG votes for endorsement of the schema, with the included aseXML Change Requests, and the voting results are forwarded to AEMO for approval. When 75% of those ASWG members who voted endorse a schema, this represents an ASWG Recommendation for that schema. AEMO will not reject an ASWG Recommendation without first consulting with the ASWG.

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

Date of Vote: 15/06/2012

Option	# Votes	% Vote
For	5	100%
Against	0	0%
Abstained	0	0%
Total Members Present (Total of 6 voting members)	5	100%

8. AEMO Approval

The schema approval and approval date are identified below

Status	Date	Authorised by
Approved – The schema has been approved by AEMO and is formally released for use	15 Jun 2012	A. Screen