

aseXML SCHEMA CHANGE REQUEST

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DRAFT/FINAL FINAL

Version Release History

Version	Date	By	Changes
1.0	15/03/2012	Pius Kurian	Include AMDQ transactions to Gas Wholesale Transactions
1.1	18/04/2012	Pius Kurian	Modified the following Elements to align it closely to B30 Browser interface: <ol style="list-style-type: none">1. AMDQS to IHNS2. AMDQ to IHN3. CloseProxPoint to CloseProximityPoint4. NMI to CloseProximityPoint
1.2	2/05/2012	Pius Kurian	Modified GasANHeaderType and GasANAMDQType to include more optional elements to be able to deliver all information available on the screen.

Glossary

Abbreviation	Description

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1 Change Proposal

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.

1.1 Description of the proposed change

The proposed changes are listed in the following table.

Item#	Change Description	Change Type ¹
1	Modified complex types: GasRetrieveRequestData GasRetrieveResponseData GasSearchRequestData GasSearchResponseData GasSubmitRequestData GasSubmitResponseData GasRetrieveTransactionType GasSearchTransactionType GasSubmissionTransactionType	Enhancement
	New simple types: GasAmdqNominationSearchType GasAmdqNominationsType GasANType GasANHeaderType GasANAMDQSType GasANAMDQType	New

Table 1-1, Proposed Changes

1.2 Reason for Change

To ensure that the new GMC2010 web services aseXML schema is capable of supporting the new business procedures associated with the new AMDQ Nomination services provided through the web exchanger.

Perceived benefits:

- Inclusion of new AMDQ transaction to support Web Services automation for the new AMDQ nominations as requested by business functional requirement.

1.3 Supplied Documents

1.3.1 Business process document

1. GMP Participant Build Pack document (to be supplied)

1.3.2 Other

aseXML_r29_Draft_zip

¹ Change Type can be one of

- New
- Enhancement, or
- Bug Fix

1.4 Baseline Schema

The schema used as a basis for this proposal is **aseXML_r29.xsd**

2 Approval Proposal

2.1 Proposed Change #1²

2.1.1 Draft schema

Please refer to the schema files included with this proposal. The base schema is aseXML_r29 and one file has been modified as detailed in the next section.

2.1.2 Change log

The following changes have been implemented in this draft:

Chg #	Item #	Description of change	Filename
1	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 GasAgencyConfirmationHeaderType GasAgencyConfirmationSearchType GasAgencyNomHeaderType GasAgencyNominationSearchType GasIHNAMEQSType GasIHNTType and added GasAmdqNominationSearchType GasAmdqNominationsType, GasANType, GasANHeaderType GasANAMEQSType, GasANAMEQType	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	

Table 2-1 Change Log

² This section may be repeated if more than one option is considered

2.1.3 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.

2.1.3.1 *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

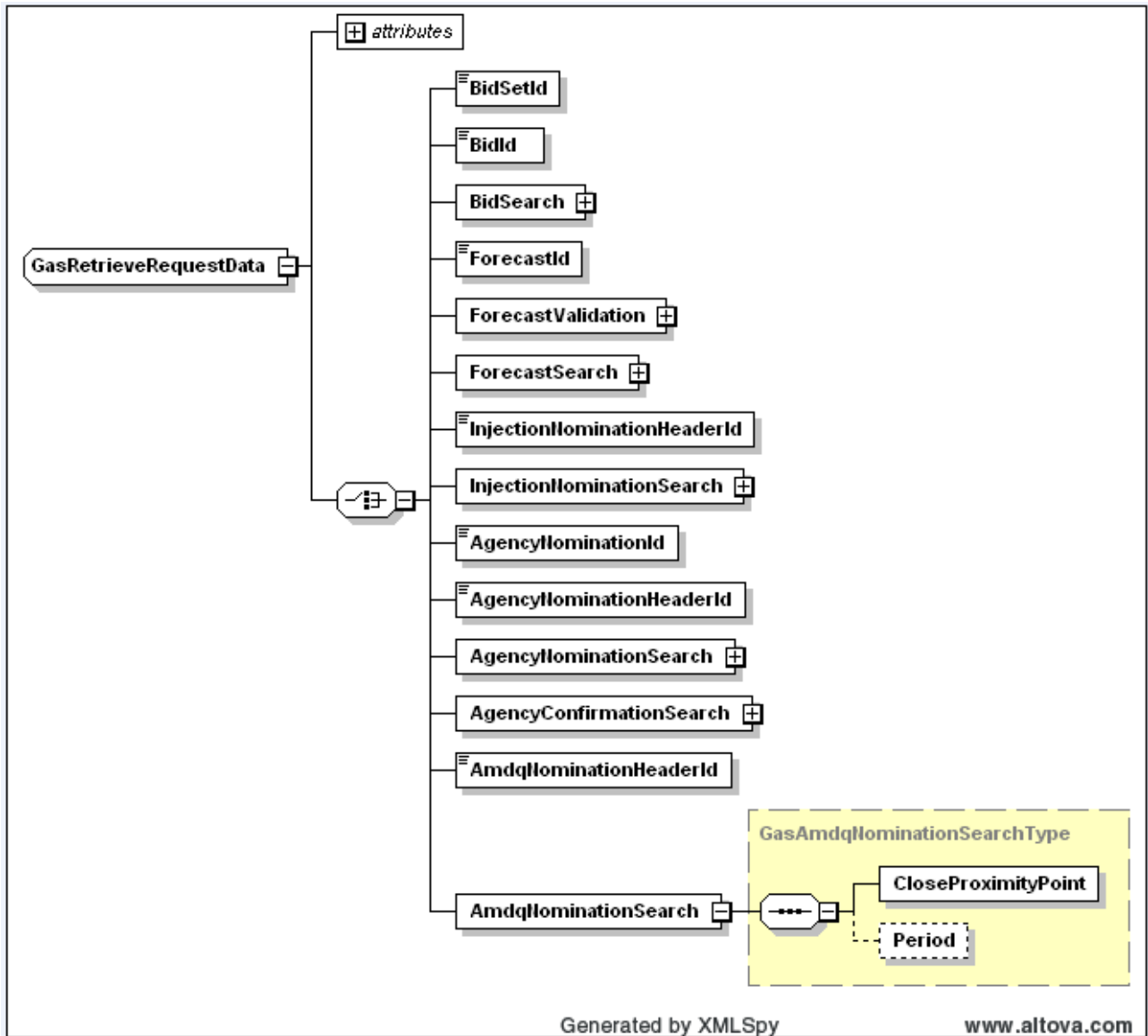


Figure 2-1 GasRetrieveRequestData

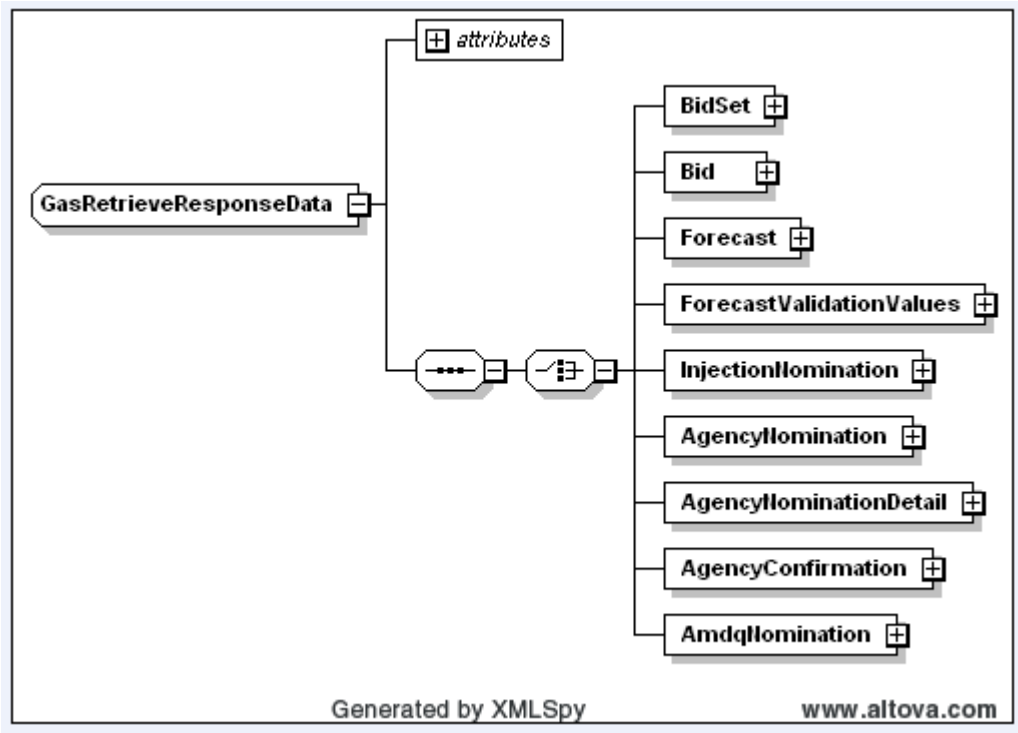


Figure 2-2 GasRetrieveResponseData

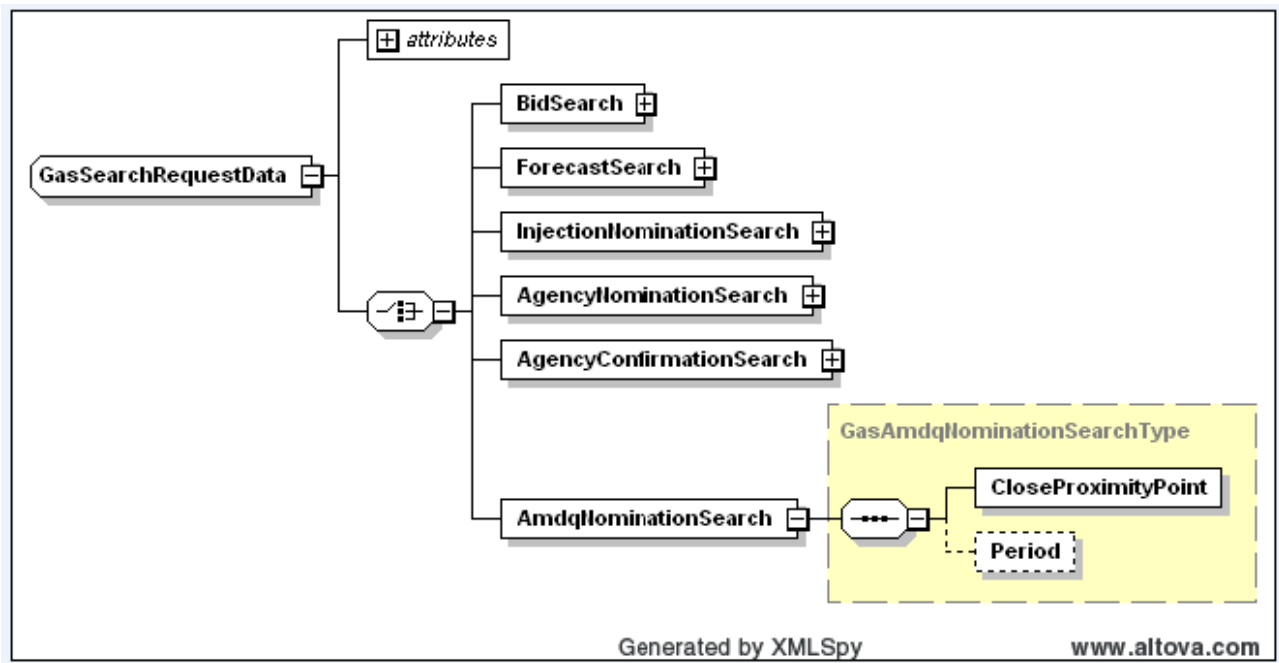


Figure 2-3 GasSearchRequestData

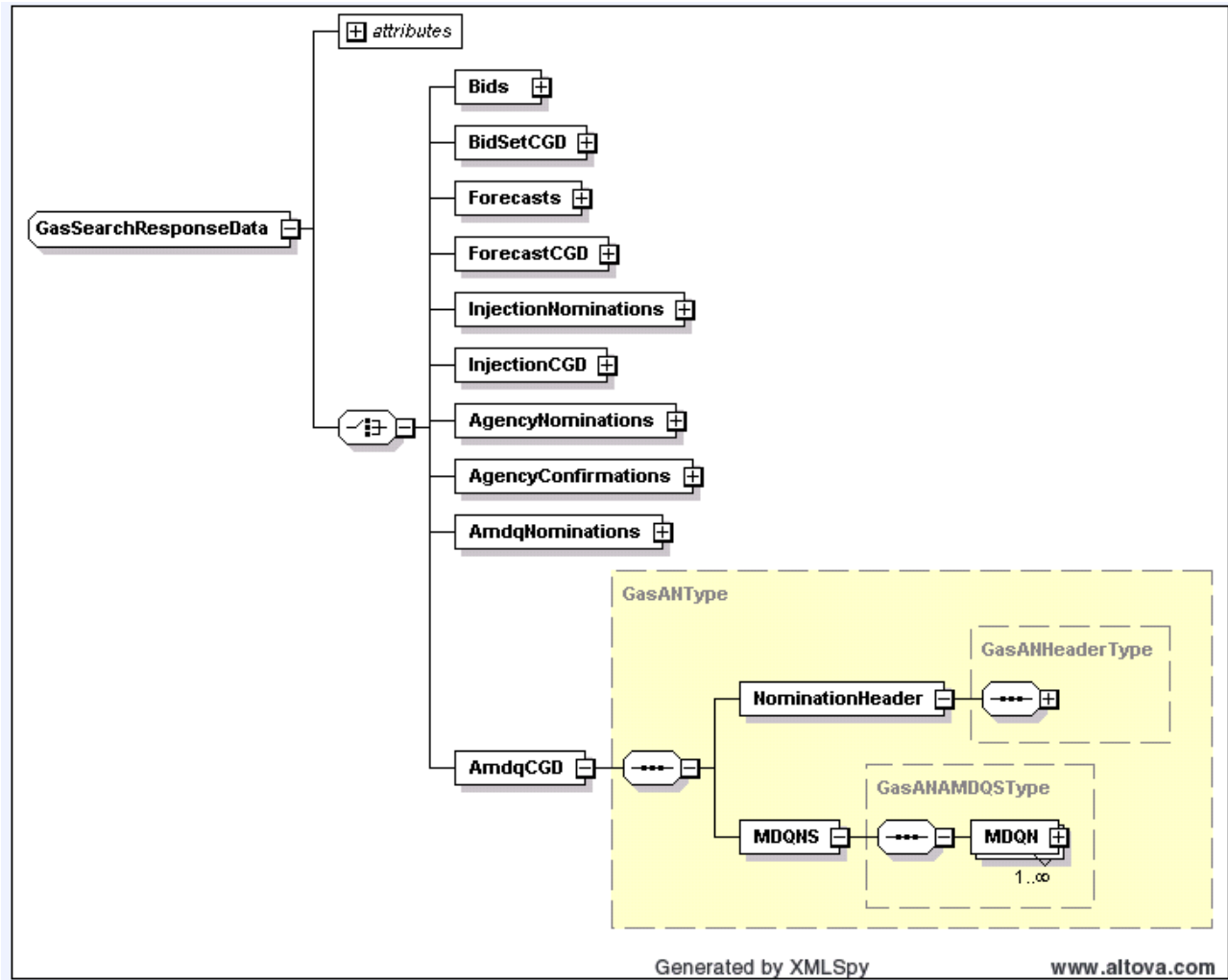


Figure 2-4 GasSearchResponseData - CGD

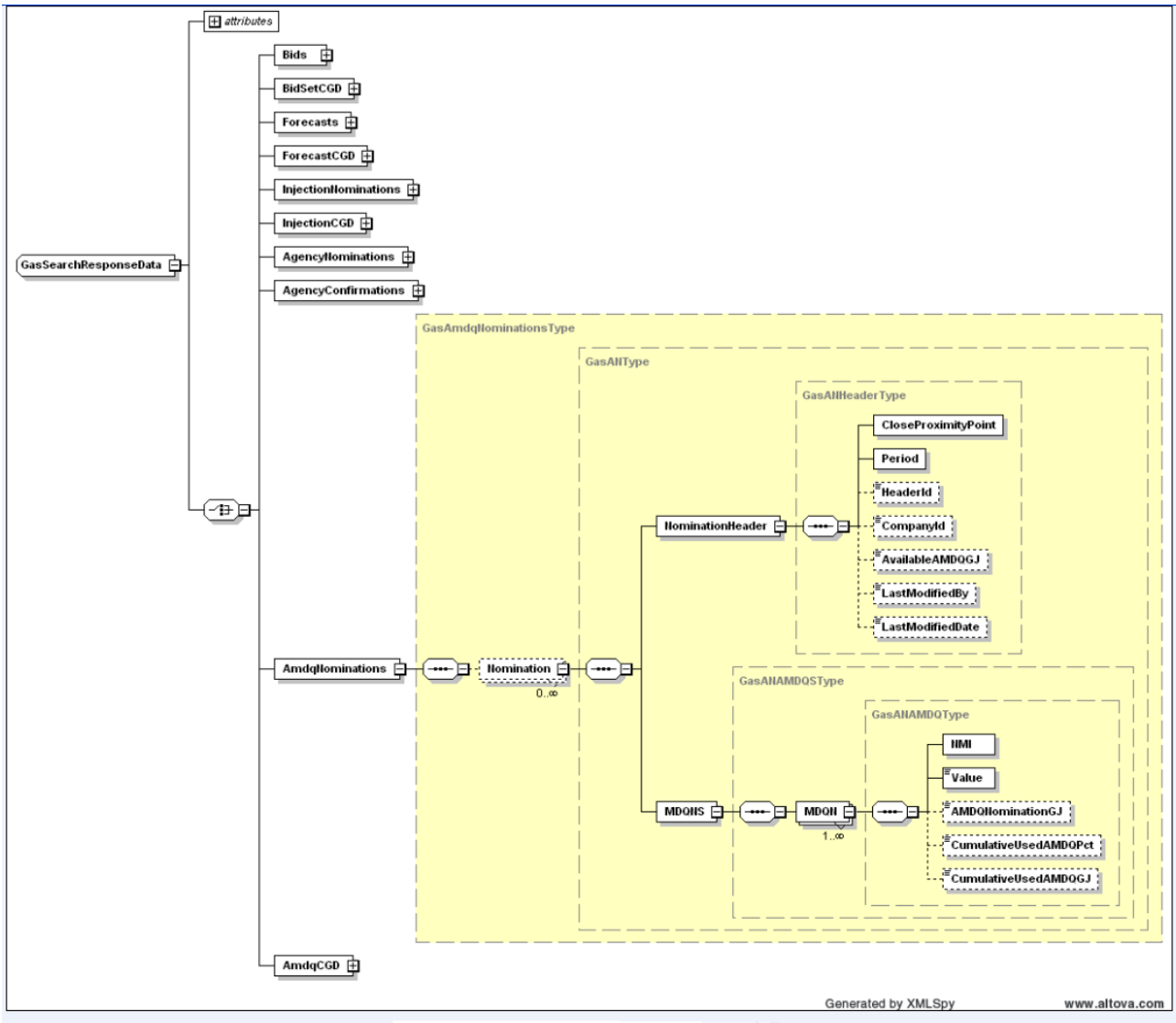


Figure 2-5 GasSearchResponseData - List

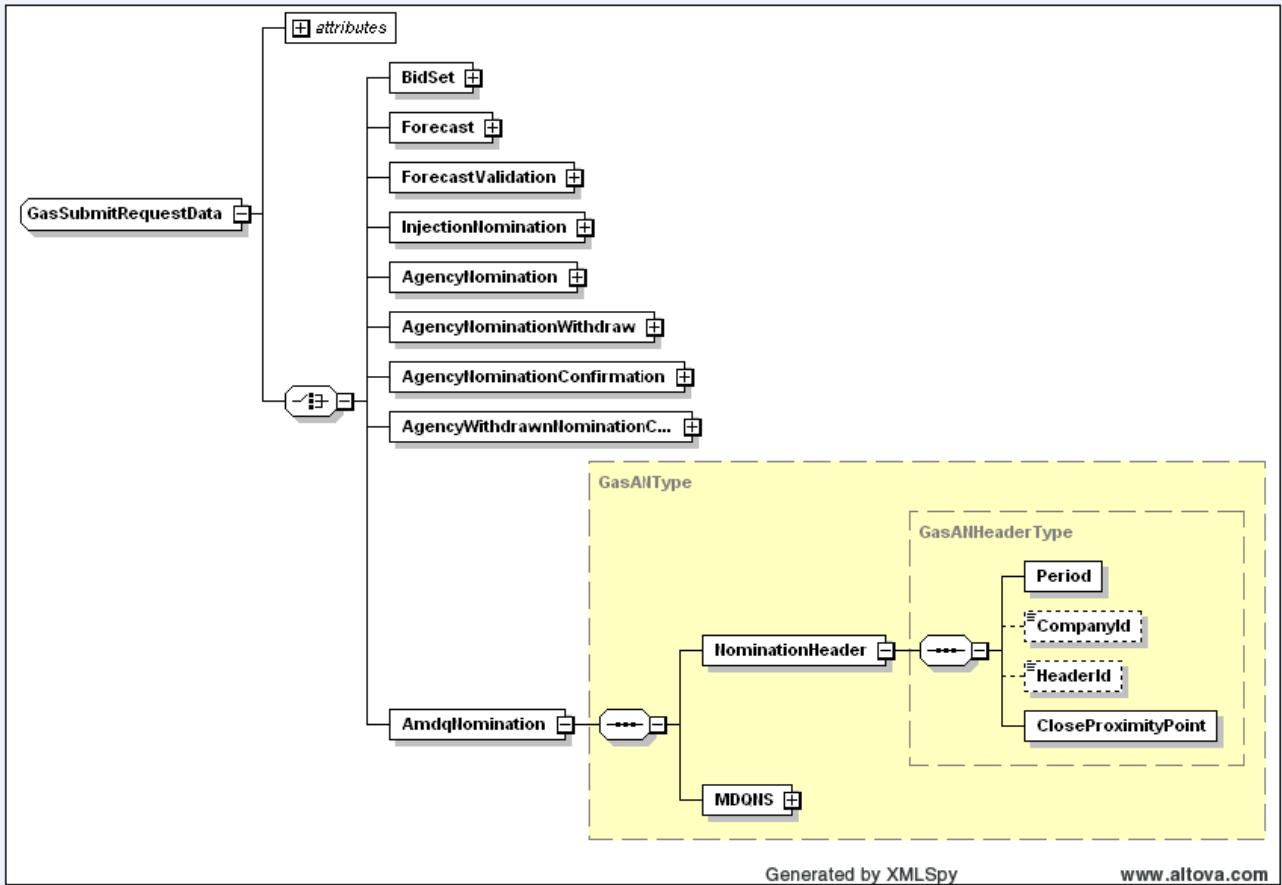


Figure 2-6 GasSubmitRequestData

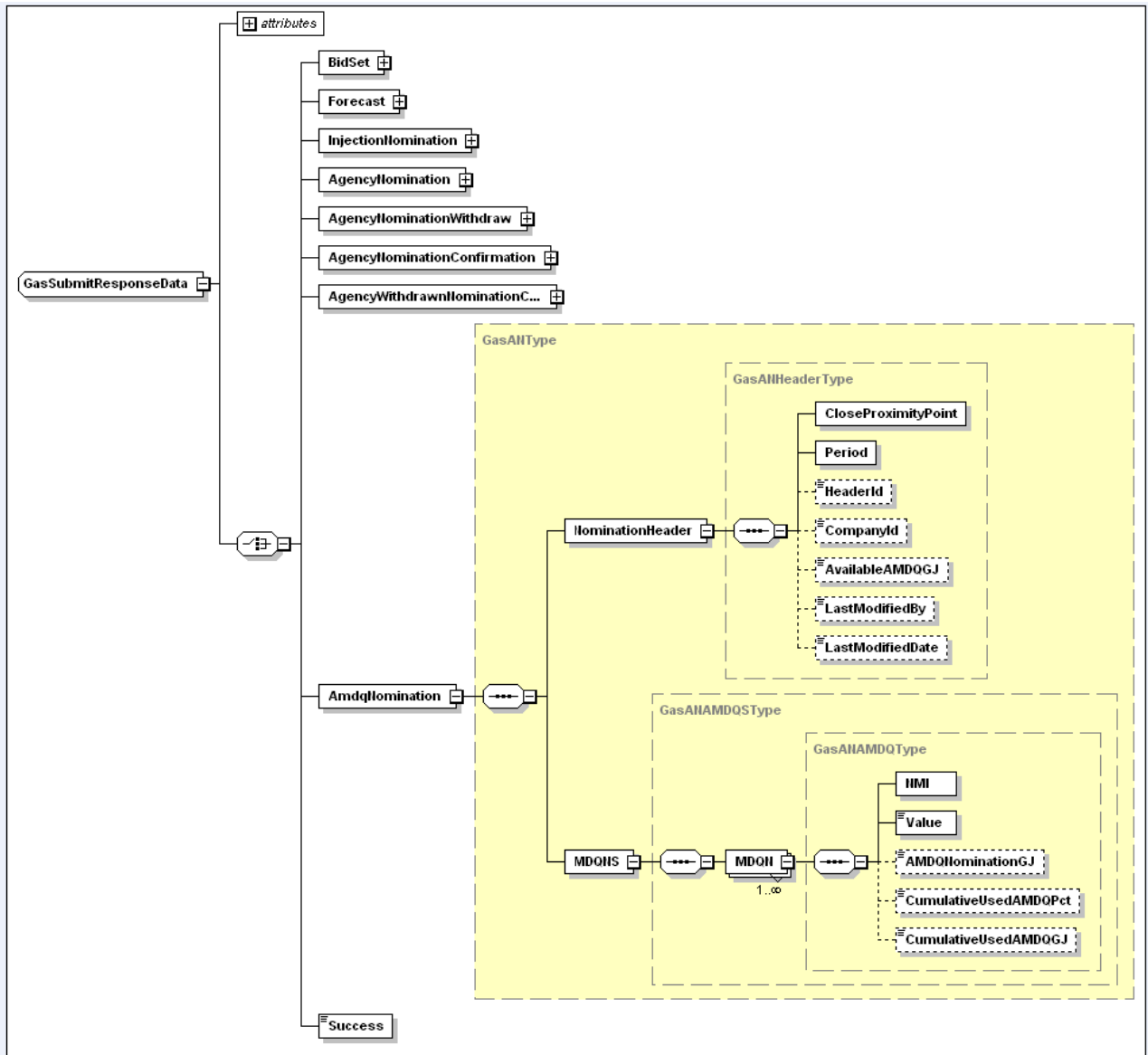


Figure 2-7 GasSubmitResponseData

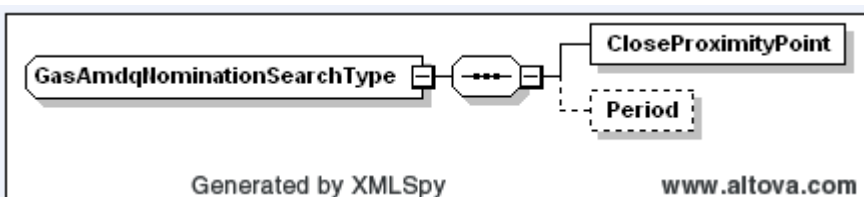


Figure 2-8 GasAmdqNominationSearchType

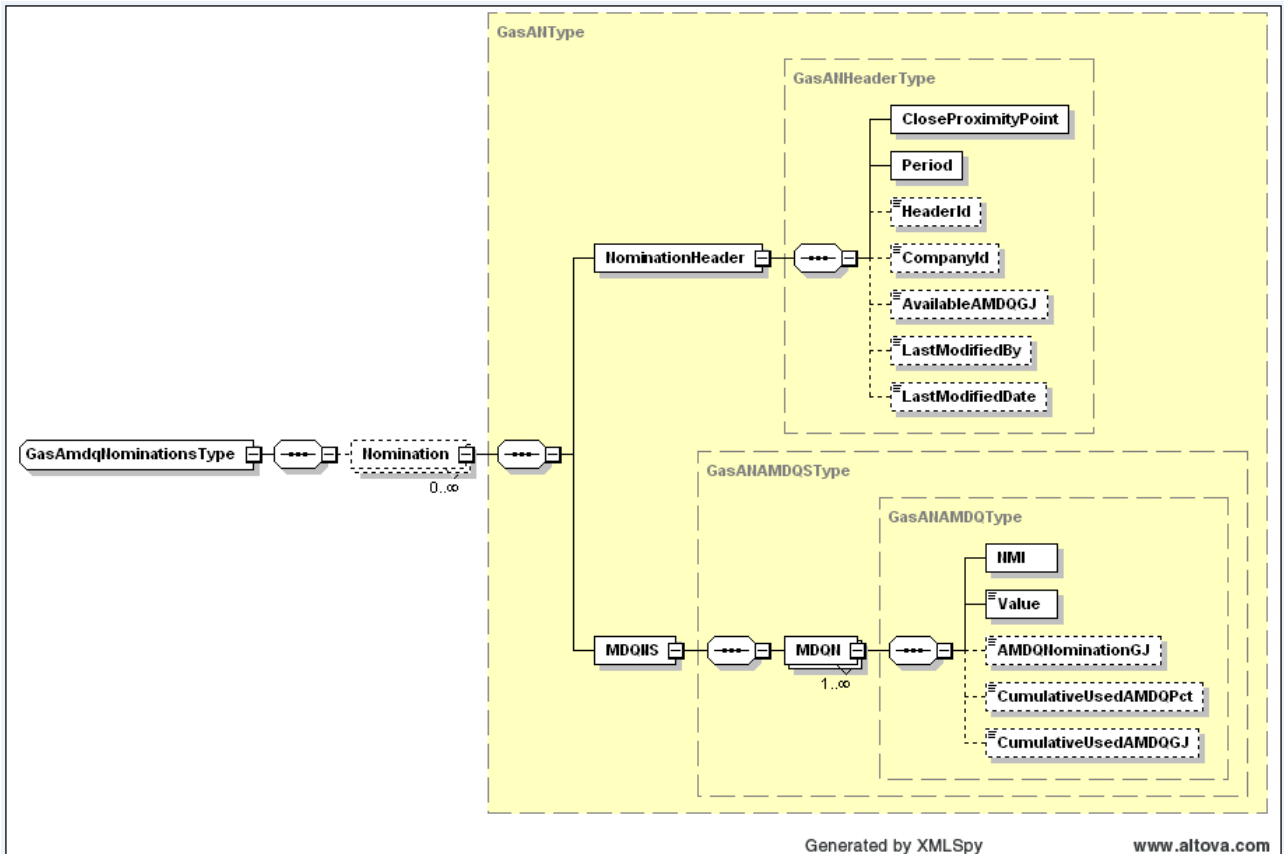


Figure 2-9 GasAmdqNominationsType

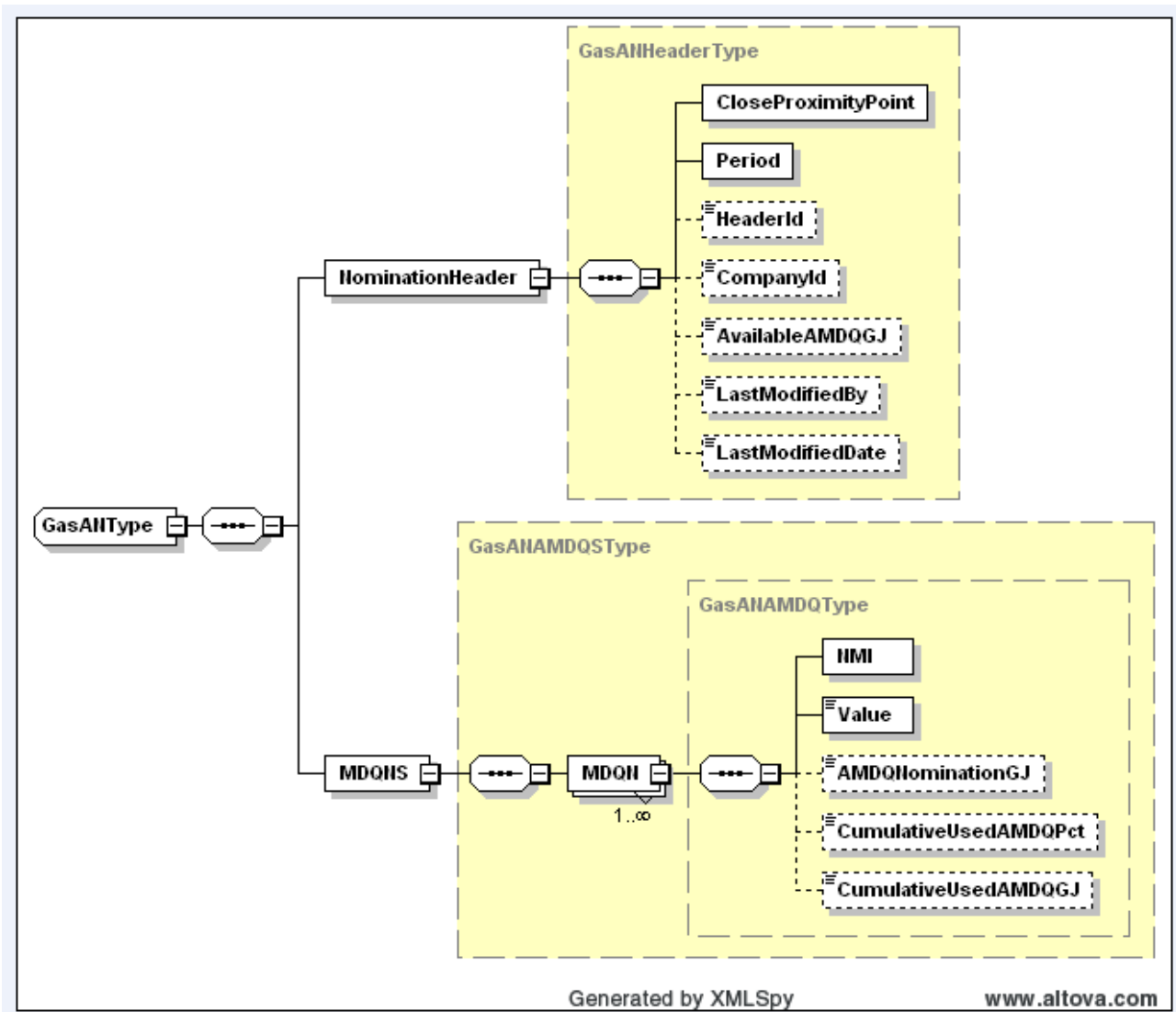


Figure 2-10 GasANType

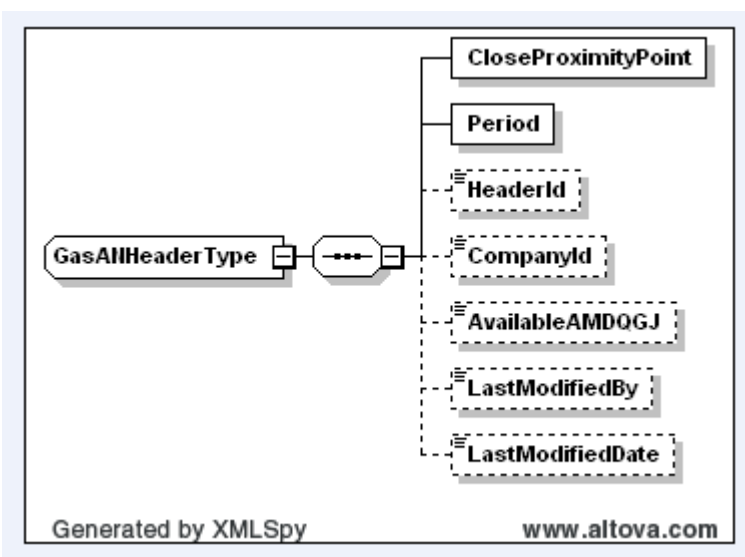


Figure 2-11 GasANHeaderType

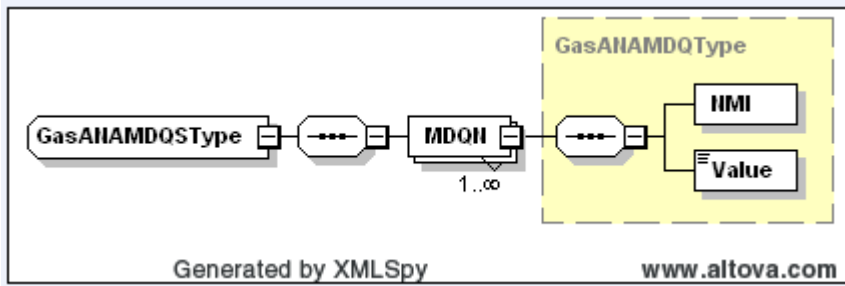


Figure 2-12 GasANAMDQSType

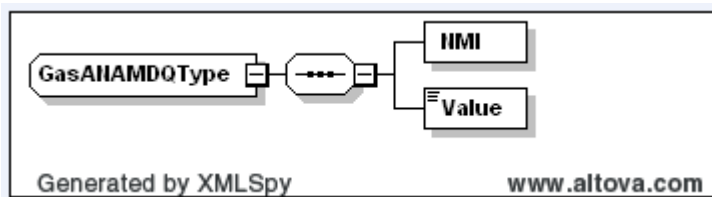


Figure 2-13 GasANAMDQSType

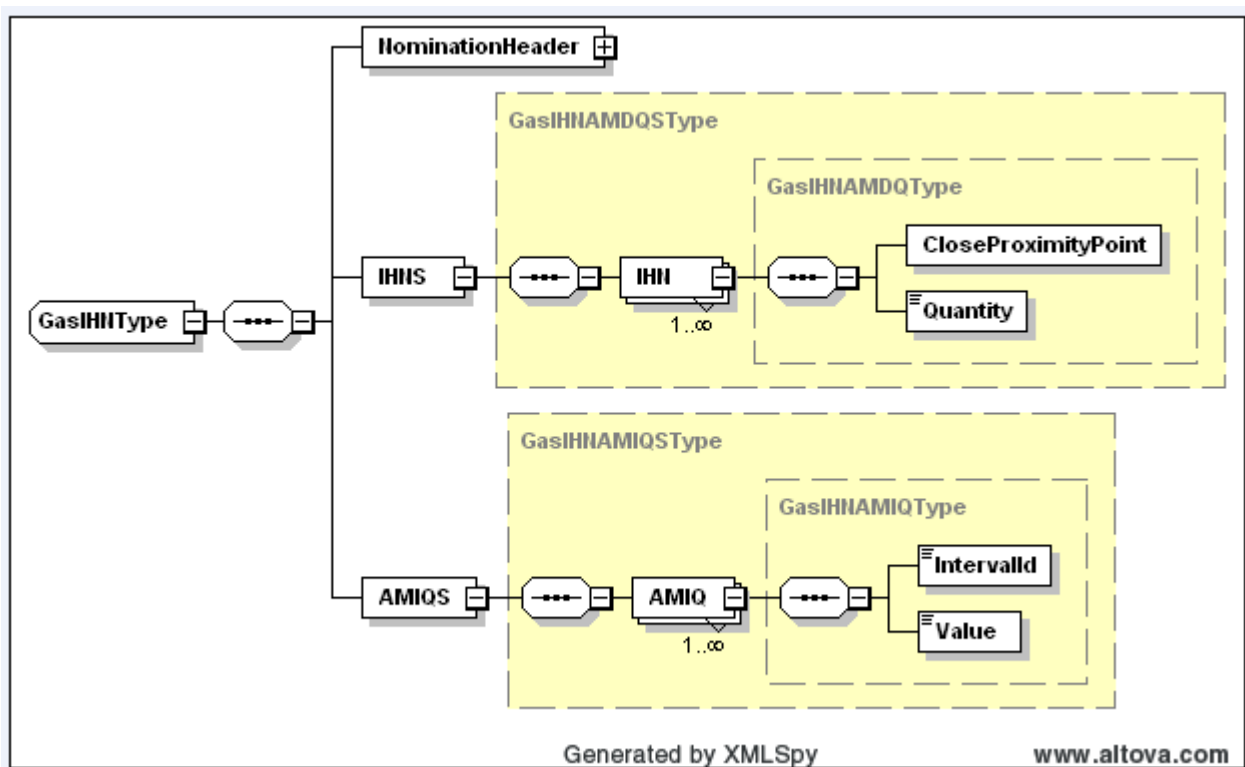


Figure 2-14 GasIHNTType

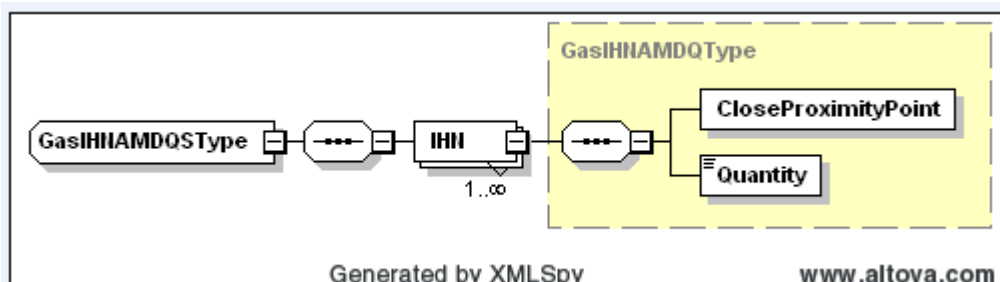


Figure 2-15 GasIHNTType

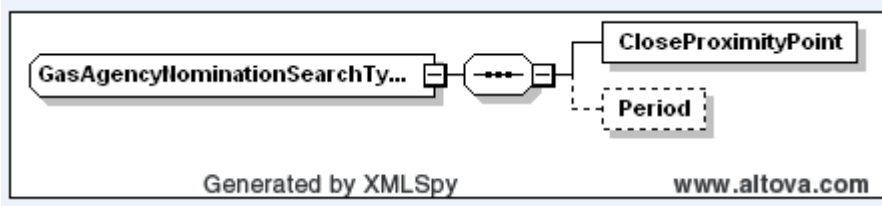


Figure 2-16 GasAgencyNominationSearchType

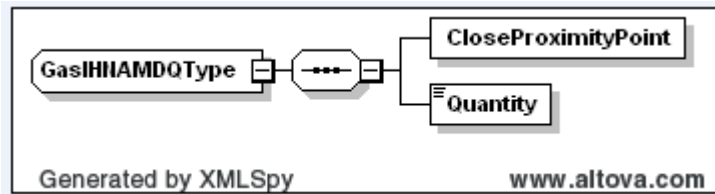


Figure 2-17 GasIHNAMEQType

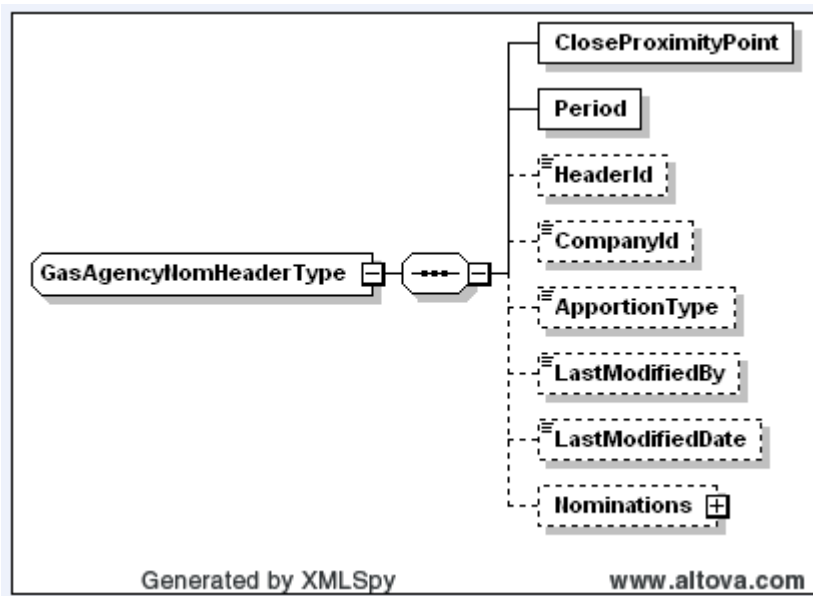


Figure 2-18 GasAgencyNomHeaderType

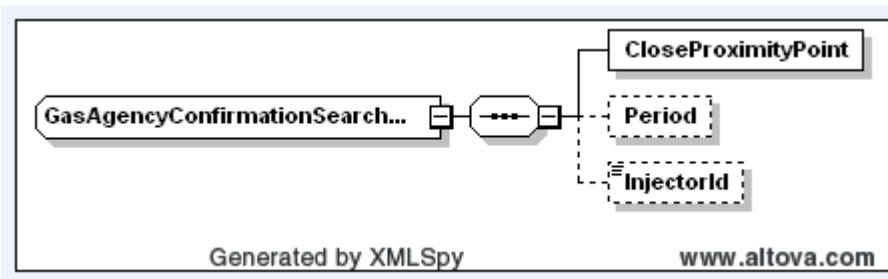


Figure 2-19 GasAgencyConfirmationSearchType

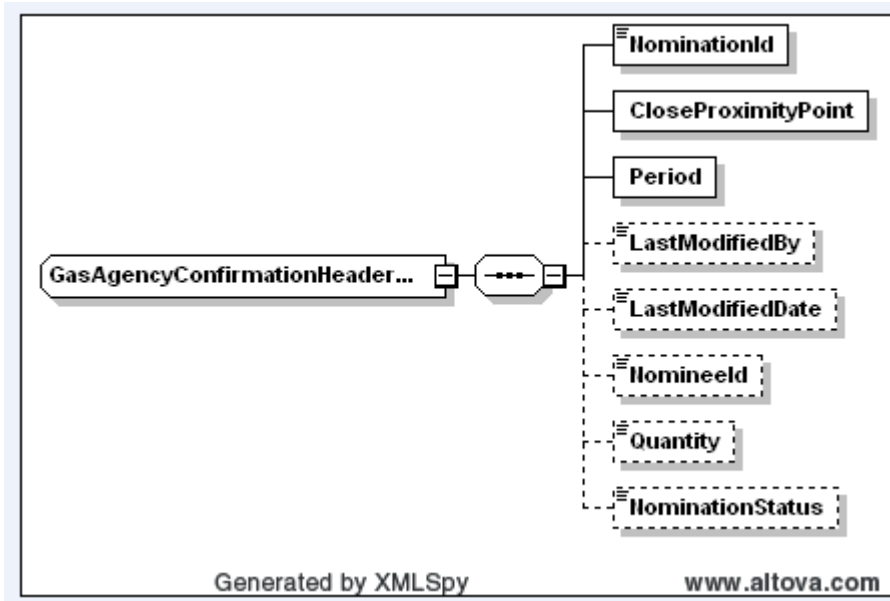


Figure 2-20 GasAgencyConfirmationHeaderType

```

<?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:choice>
        </xsd:sequence>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:schema>

```

```

type="GasAgencyNomHeaderType"/>
type="GasAgencyNomDetailType"/>
type="GasAgencyConfirmationHeaderType"/>
    <xsd:element name="InjectionNomination" type="GasIHNTType"/>
    <xsd:element name="AgencyNomination"
    <xsd:element name="AgencyNominationDetail"
    <xsd:element name="AgencyConfirmation"
    <xsd:element name="AmdqNomination" type="GasANTType"/>
  </xsd:choice>
</xsd:sequence>
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<xsd:attribute name="contextType" type="GasRetrieveTransactionType" use="required"/>
</xsd:extension>
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</xsd:complexType>
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  <xsd:complexContent>
    <xsd:extension base="WholesaleSearchRequestData">
      <xsd:choice>
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        <xsd:element name="ForecastSearch" type="GasForecastSearchType"/>
        <xsd:element name="InjectionNominationSearch"
        <xsd:element name="AgencyNominationSearch"
        <xsd:element name="AgencyConfirmationSearch"
        <xsd:element name="AmdqNominationSearch"
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasSearchResponseData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleSearchResponseData">
      <xsd:choice>
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        <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="GasANTType"/>
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
<xsd:complexType name="GasSubmitRequestData">
  <xsd:complexContent>
    <xsd:extension base="WholesaleSubmitRequestData">
      <xsd:choice>
        <xsd:element name="BidSet" type="GasBidSetType"/>
        <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"
        <xsd:element name="AgencyNominationConfirmation"
        <xsd:element name="AgencyWithdrawnNominationConfirmed"
        <xsd:element name="AmdqNomination" type="GasANTType"/>
      </xsd:choice>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
type="GasAgencyConfirmationType"/>
type="GasAgencyConfirmationType"/>
type="GasAgencyConfirmationType"/>
  <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>

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  <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">
      <xsd:attribute name="version" type="r20" use="optional" default="r20"/>
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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="MarketIntervallInfo" type="MarketIntervallInfoType"/>
      </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: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"/>
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  <xsd:sequence>
    <xsd:element name="BidSteps" type="GasBidStepsType"/>
  </xsd:sequence>

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<xsd:element name="BidSetId" type="xsd:long" minOccurs="0"/>
<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"/>
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  <xsd:sequence>
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    <xsd:element name="DailyQuantity" type="xsd:int"/>
    <xsd:element name="BidId" type="xsd:long" minOccurs="0"/>
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          <xsd:whiteSpace value="collapse"/>
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    </xsd:element>
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<xsd:complexType name="GasBidSearchType">
  <xsd:sequence>
    <xsd:element name="BidType" type="GasInjectWithdrawType"/>
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    <xsd:element name="Period" type="Period" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
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  <xsd:sequence>
    <xsd:element name="SpecificSite" type="xsd:boolean"/>
    <xsd:element name="NMI" type="NMI" minOccurs="0"/>
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</xsd:complexType>
<xsd:complexType name="GasForecastSearchType">
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    <xsd:element name="NMI" type="NMI" minOccurs="0"/>
    <xsd:element name="Period" type="Period" minOccurs="0"/>
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<xsd:complexType name="GasForecastsType">
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</xsd:complexType>
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  <xsd:sequence>
    <xsd:element name="Period" type="Period"/>
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    <xsd:element name="ForecastId" type="xsd:long" minOccurs="0"/>
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    <xsd:element name="SpecificSite" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="NMI" type="NMI" minOccurs="0"/>
    <xsd:element name="LastModifiedBy" minOccurs="0">
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          <xsd:minLength value="1"/>
          <xsd:whiteSpace value="collapse"/>
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    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

```

```

        </xsd:element>
        <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
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        <xsd:element name="ForecastValue" minOccurs="24" maxOccurs="24">
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                    <xsd:extension base="xsd:int">
                        <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: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="GasIHNAMDQType" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNAMDQType">
    <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="GasIHNAMIQType" maxOccurs="unbounded"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasIHNAMIQType">
    <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="NomineId" 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:sequence>
</xsd:complexType>

```

```

        <xsd:element name="LastModifiedDate" type="xsd:dateTime" minOccurs="0"/>
        <xsd:element name="Nomineeld" 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="GasIntervallInfoType">
    <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="MarketIntervallInfoType">
    <xsd:sequence>
        <xsd:element name="CurrentInterval" type="GasIntervallInfoType"/>
        <xsd:element name="NextInterval" type="GasIntervallInfoType"/>
    </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:element name="LastModifiedDate" minOccurs="0"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="GasANAMDQSType">
    <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="IntervallInfo"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="GasInjectWithdrawType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="INJEC"/>
    <xsd:enumeration value="CTLW"/>
  </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>

```

2.1.3.2 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>

```

2.1.3.3 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
    </xsd:documentation>

```

... unmodified text removed for brevity ...

```

</xsd:documentation>
</xsd:annotation>
  <xsd:include schemaLocation="Events_r29.xsd">
  <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>
  <xsd:include schemaLocation="GasMarketWholesale_r20.xsd">
  <xsd:include schemaLocation="GasMarketWholesale_r30.xsd">
    <xsd:annotation>
      <xsd:documentation>
        Purpose - Include data types for gas market wholesale functionality.
      </xsd:documentation>
    </xsd:annotation>
  </xsd:include>

```

2.1.4 Impact Summary

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

- Modified types - is a full list of types changed by this Change Request
- 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 as a result of this Change Request
- 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 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
GasRetrieveRequestData GasRetrieveResponseData GasSearchRequestData GasSearchResponseData GasSubmitRequestData GasSubmitResponseData GasRetrieveTransactionType GasSearchTransactionType GasSubmissionTransactionType GasAgencyConfirmationHeaderType GasAgencyConfirmationSearchType GasAgencyNomHeaderType GasAgencyNominationSearchType GasIHNAMEQSType GasIHNTType	None	GasRetrieveRequestData GasRetrieveResponseData GasSearchRequestData GasSearchResponseData GasSubmitRequestData GasSubmitResponseData	WholesaleRetrieveRequest WholesaleRetrieveResponse WholesaleSearchRequest WholesaleSearchResponse WholesaleSubmitRequest WholesaleSubmitResponse	GasMarketWholesale_r30.xsd

Table 2-2, Impact Summary

2.1.5 Developer Test

2.1.5.1 Test Platforms

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

- XMLSpy 2010
- MSXML6 SP1
- Xerces 2.2.1 and 2.9.1

2.1.5.2 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 6.0 SP1
- Xerces 2.2.1
- Xerces 2.9.1
- XMLSpy 2010

3.1.2 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

3.1.3 Test Results

All OK on XMLSpy (as of now)

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_r30.xsd		TBA

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#	Item#	Description and Discussion	Status ³	Resolution
1				

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 AEMO for approval. When 75% of those ASWG members who voted endorse a specific option, this represents an ASWG Recommendation for that option. AEMO will not reject an ASWG Recommendation without first consulting with the ASWG.

5.1 ASWG Endorsement

The results of the ASWG vote are as follows:

Date of Vote: 18/05/2012 (proposed)

Option	# Votes	% Vote
Option 1 (section 2.1)		
Option 2 (section 2.2)		
Option # (section 2.#)		
Abstained		
Total Members Present		

³ Either 'Open' or 'Closed'

Table 5-1, ASWG Vote Results