

**Schema Release**  
**AseXML Schema Working Group**  
**Release r31**

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## Document History

Version	Date	Authors	Comments
1.0	17 Dec 2012	Pius Kurian Greg Matthews	

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## 1. Introduction

Version r31 of the aseXML schema has been developed from r30. 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
49	<p>This Change Proposal is to make the version attribute of all transactions optional with a default value.</p> <p>These schema changes are necessary to implement business changes in Agency Injection Hedge Nomination – AIHN.</p>
50	<p>This Change Proposal consists of two changes.</p> <ul style="list-style-type: none"> <li>• New NMI Discovery of Type3, which amends the existing transaction NMI Standing Data Request to help retailers to find out the current or most recent retailer for a NMI. In situations such as erroneous transfers, site abolishment, retailers need get this information. The need for this has been discussed, assessed and approved in the B2B &amp; MSATS Reference Group (BMRG)</li> <li>• Remove enumeration restriction on the simple type DataStreamType</li> <li>• Add From Date and To Date to NMI, Role, Stream, Meter and Register response data</li> </ul>

These Change Requests are available from the ASWG or the aseXML website ([http://au.groups.yahoo.com/group/aseXMLTech/files/aseXML\\_Schemas/Schema\\_Change\\_Requests/](http://au.groups.yahoo.com/group/aseXMLTech/files/aseXML_Schemas/Schema_Change_Requests/)) for review by all impacted parties.

## 3. Glossary

Abbreviation	Description
TUOS	Transmission Usage of System
TSDf	Transmission System Demand Forecasting

## 4. 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.

### 4.1. CR49 Changes

Modified type	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
GasIHNTtype	GasInjectionNominationsType	GasRetrieveResponseData GasSubmitResponseData GasSearchResponseData GasSubmitRequestData	WholesaleRetrieveResponse WholesaleSubmitResponse WholesaleSearchResponse WholesaleSubmitRequest	GasMarketWholesale_r30.xsd

### 4.2. CR50 Changes

Modified type	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
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Modified type	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
DataStreamType MDMTReportsDataStreamType	ElectricityNMIDataStreamGroup ElectricityDataStream ElectricityDataStreams	ElectricityNMIDataStreamRow ElectricityNMIDataStreamRowBDT ElectricityCATSChangeRequestNMIDataStreamRow ElectricityStandingData	ReplicationNotification ReportResponse NMIDiscoveryResponse NMIStrandingDataResponse CATSChangeRequest CATSNotification CATSDataRequest ServiceOrderRequest ServiceOrderResponse AmendMeterRouteDetails AccountCreationNotification MeterReadInputNotification SpecialReadRequest SpecialReadResponse NMIStrandingDataUpdateNotification CATSBulkDataRequest	CATSTableReplication_r31.xsd Electricity_r31.xsd MDMTReports_r31.xsd
NMIStrandingDataRequestType (New) NMIStrandingDataRequestReason (New)		NMIStrandingDataRequest	NMIStrandingDataRequest	NMIDataAccess_r31.xsd

Modified type	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
RoleAssignment	RoleAssignments ParticipantQuantityType ShipperChangeRequestType QuantityNotification	AllocationNotification ReconciliationNotification SwingServiceNotification  ElectricityStandingData  GasStandingData	ReconciliationNotification AllocationNotification SwingServiceNotification  NMIDiscoveryResponse NMIStandingDataResponse CATSChangeRequest CATSNotification CATSDataRequest ServiceOrderRequest ServiceOrderResponse AmendMeterRouteDetails AccountCreationNotification MeterReadInputNotification SpecialReadRequest SpecialReadResponse NMIStandingDataUpdateNotification CATSBulkDataRequest	Common_r31.xsd BAR_r31.xsd Electricity_r31.xsd Gas_r31.xsd
ElectricityMeterRegisterDetail	ElectricityMeterRegisterConfiguration ElectricityMeter ElectricityMeters	ElectricityStandingData	NMIDiscoveryResponse NMIStandingDataResponse CATSChangeRequest CATSNotification CATSDataRequest ServiceOrderRequest ServiceOrderResponse AmendMeterRouteDetails AccountCreationNotification MeterReadInputNotification SpecialReadRequest SpecialReadResponse NMIStandingDataUpdateNotification CATSBulkDataRequest	Electricity_r31.xsd

Modified type	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
ElectricityMasterStandingData		ElectricityStandingData	NMIDiscoveryResponse NMISstandingDataResponse CATSChangeRequest CATSNotification CATSDataRequest ServiceOrderRequest ServiceOrderResponse AmendMeterRouteDetails AccountCreationNotification MeterReadInputNotification SpecialReadRequest SpecialReadResponse NMISstandingDataUpdateNotification CATSBulkDataRequest	ElectricityMasterStandingData.xsd Electricity_r31.xsd
ElectricityMeter	ElectricityMeters	ElectricityStandingData	NMIDiscoveryResponse NMISstandingDataResponse CATSChangeRequest CATSNotification CATSDataRequest ServiceOrderRequest ServiceOrderResponse AmendMeterRouteDetails AccountCreationNotification MeterReadInputNotification SpecialReadRequest SpecialReadResponse NMISstandingDataUpdateNotification CATSBulkDataRequest	Electricity_r31.xsd



Modified type	Derived types	Versioned types affected	Transactions potentially affected	Schema files affected
ElectricityDataStream	ElectricityDataStreams	ElectricityStandingData	NMIDiscoveryResponse NMISstandingDataResponse CATSChangeRequest CATSNotification CATSDataRequest ServiceOrderRequest ServiceOrderResponse AmendMeterRouteDetails AccountCreationNotification MeterReadInputNotification SpecialReadRequest SpecialReadResponse NMISstandingDataUpdateNotification CATSBulkDataRequest	Electricity_r31.xsd

## 5. File Change Summary

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

### 5.1. aseXML

- Changed aseXML namespace to urn:aseXML:r31

### 5.2. Changes

#### 5.2.1 Changes from CR49

Item#	Change Description	Change Type <sup>1</sup>
1	Change URN and version for the schema	Enhancement
2	Add new simpleType for version r31	Enhancement
4	Make the IHNS element in GasIHNTYPE optional	Enhancement

#### 5.2.2 Changes from CR50

The first change is to amend existing transaction NMI Standing Data Request to help retailers determine the current or most recent retailer for a NMI.

Retailers require this information in situations such as erroneous transfers, site abolishment. The need for this has been discussed, assessed and approved in the B2B & MSATS Reference Group (BMRG).

The second change relates to way AEMO addresses the needs of TUOS (Transmission Usage of System) and TSDF (Transmission System Demand Forecasting) in the state of Victoria.

MSATS will be used to address the needs of TUOS and TSDF.

That requires additional data-stream types than are currently available (e.g. data stream which store reactive energy that is not used for market settlement).

This need has been met by removing the enumeration restriction on data-stream simple type. This enables alterations to data-stream types in future without having to undertake schema version upgrade. The validation around data-stream types will be forced in respective market systems. These changes are scheduled for release into the Production systems in early May 2013.

Item#	Change Description	Change Type <sup>1</sup>
1	Change URN and version for the schema, change links to files where the xsd files have changed.	Enhancement
2	Add new simple Type for version r31	New
3	Add simple type NMISstandingDataRequestType	New
4	Add simple type NMISstandingDataRequestReason	New
5	Add optional Type of NMISstandingDataRequestType type and Reason of NMISstandingDataRequestReason type to NMISstandingDataRequest complex type	Enhancement
6	Change the version attribute of the NMISstandingDataRequest	Enhancement

<sup>1</sup> Change Type can be one of

- New
- Enhancement, or
- Bug Fix

Item#	Change Description	Change Type <sup>1</sup>
7	Add FromDate and ToDate to RoleAssignment complex type	Enhancement
8	Change the version attribute of versioned types impacted by change to RoleAssignment	Enhancement
9	Add FromDate and ToDate to ElectricityMeterRegisterDetail complex type	Enhancement
10	Change the version attribute of versioned types impacted by change to ElectricityMeterRegisterDetail	Enhancement
11	Add FromDate and ToDate to ElectricityMasterStandingData complex type	Enhancement
12	Change the version attribute of versioned types impacted by change to ElectricityMasterStandingData	Enhancement
13	Add FromDate and ToDate to ElectricityMeter complex type	Enhancement
14	Change the version attribute of versioned types impacted by change to ElectricityMeter	Enhancement
15	Add FromDate and ToDate to ElectricityDataStream complex type	Enhancement
16	Change the version attribute of versioned types impacted by change to ElectricityDataStream Type	Enhancement
17	Remove the enumeration restriction on simple type DataStreamType	Enhancement
18	Remove the enumeration restriction on simple type MDMTReportsDataStreamType which is restricted to be of type DataStreamType but has the enumeration values redefined.	Enhancement
19	Change the version attribute of versioned types impacted by change to DataStreamType	Enhancement

Table 2-1 Change Log

### 5.3. Schema change description

#### 5.3.1 CR49 Changes

The changes to the AIHN web service incorporates the addition of an optional element WithdrawalFromGasDay and to allow for the optional entry of the element IHNS element.

The changes are primarily contained in the file GasMarketWholesale\_r31.xsd. Events\_r31.xsd and aseXML\_r31.xsd changed to support the schema version change

#### **aseXML\_r31.xsd**

Changed the URN and references to XSD files changed i.e. GasMarketWholesale\_r31.xsd and Events\_r31.xsd

#### **Events\_r31.xsd**

Added simple type r31 to support the schema change.

#### **GasMarketWholesale\_r31.xsd**

The following changes are done in this file

- Modified complex type GasIHNTtype, changed element IHNS by specifying minOccurs=0

- Changed the version attribute of following complex types from r30, default and optional to version r31 default and optional
  - GasRetrieveResponseData
  - GasSearchResponseData
  - GasSubmitRequestData
  - GasSubmitResponseData

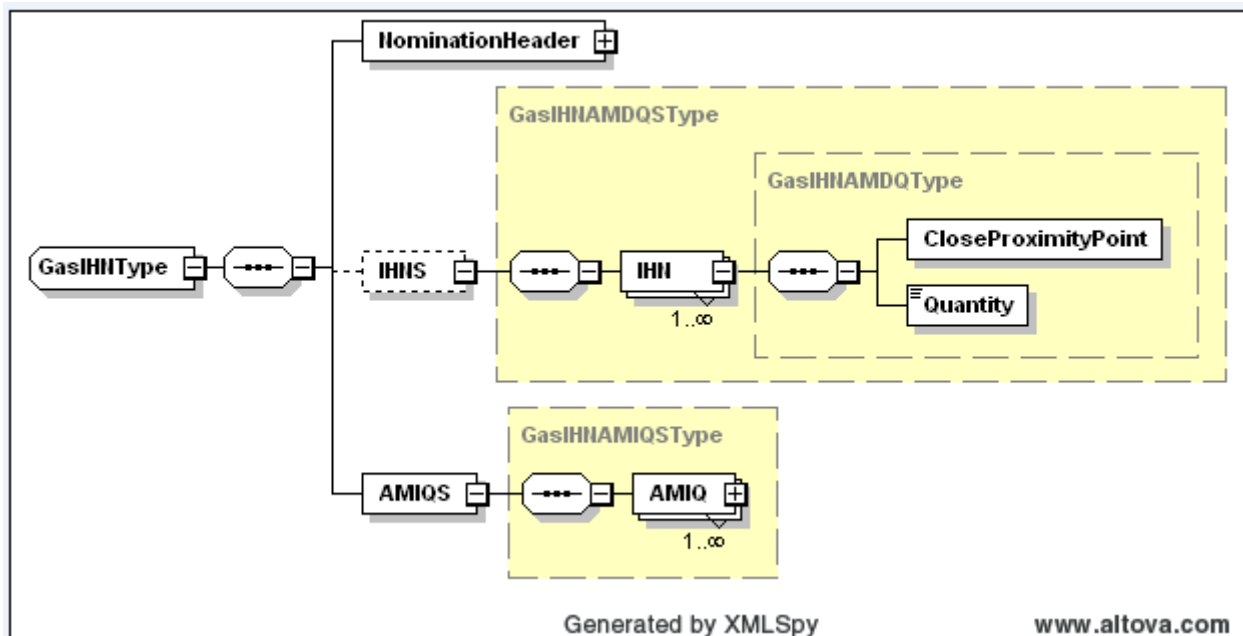


Figure 1 GasIHNTType

### 5.3.2 CR50 Changes

#### aseXML\_r31.xsd

Changed the URN and references to XSD files changed i.e. CATSTableReplication\_r31.xsd, , NMIDataAccess\_r31.xsd, Electricity\_r31.xsd, Events\_r31.xsd, BAR\_r31.xsd and Gas\_r31.

#### Events\_r31.xsd

Added simple type r31 to support the schema change.

#### NMIDataAccess\_r31.xsd

Amend complex type NMISstandingDataRequest as follows:

```

<xsd:complexType name="NMIStandingDataRequest">
  <xsd:annotation>
    <xsd:documentation>
      Application - NMI Data Access
      TransactionExchange - NMI Standing Data
      TransactionGroup - NMID
      Priority - High
      Purpose - Request the current standing data for a particular NMI
      Detail - The checksum should be provided with the NMI.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="NMI" type="NMIWithChecksum" />
    <xsd:element name="Type" type="NMIStandingDataRequestType" minOccurs="0" />
    <xsd:element name="Reason" type="NMIStandingDataRequestReason" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r31" use="optional" default="r31"/>
</xsd:complexType>

```

### Electricity\_r31.xsd

Add a simple type called NMIStandingDataRequestType to support the new transaction

```

<xsd:simpleType name="NMIStandingDataRequestType">
  <xsd:annotation>
    <xsd:documentation>
      The type of NMI Discovery. This will be mandatory in transaction of
      NMI Discovery of Type 3.
      The values will be codified in the MSATS back end system. The types
      are not being implemented in schema as enumerations. That is to avoid
      making a schema version upgrade for a change types.
      Currently the reasons proposed to be implemented in MSATS backend are
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="15"/>
  </xsd:restriction>
</xsd:simpleType>

```

Add a simple type called NMIStandingDataRequestReason to support the new transaction

```

<xsd:simpleType name="NMIStandingDataDiscoveryRequestReason">
  <xsd:annotation>
    <xsd:documentation>
      The reason for performing NMI Discovery. This will be mandatory
      in transaction of NMI Discovery of Type 3
      The reasons will be codified in the MSATS back end system. The
      reasons are not being implemented in schema as enumerations. That
      is to avoid making a schema version upgrade for a change to
      reason codes.

      Currently the reasons proposed to be implemented in MSATS backend
      are:

      MCR - Missed CR1500 error
      ITD - Incorrect transfer date error
      NNS - New NMI Setup error
      TRM - Transfer missed error
      TRI - Transferred in error
      OTR - Other transfer errors
      SAB - Site Aabolishment
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:maxLength value="15"/>
  </xsd:restriction>

```

```

</xsd:restriction>
</xsd:simpleType>

```

### Remove enumeration restriction on simple type DataStreamType

```

<xsd:simpleType name="DataStreamType">
  <xsd:annotation>
    <xsd:documentation>
      Purpose - Identify data stream type
      MSATS Data Model Column - DataStreamType
      Detail - Non Interval has the same meaning as consumption.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string" />
  <xsd:enumeration value="Interval"/>
  <xsd:enumeration value="Non-Interval"/>
  <xsd:enumeration value="Consumption"/>
  <xsd:enumeration value="Profile"/>
</xsd:restriction>
</xsd:simpleType>

```

Change the version attribute of versioned type ElectricityStandingData impacted by removal of enumeration of DataStreamType RoleAssignment, ElectricityMeterRegisterDetail, ElectricityMasterStandingData, ElectricityMeter, ElectricityDataStream Types :

Change from : <xsd:attribute name="version" type="r25" use="optional"/>

Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

Add FromDate and ToDate to ElectricityMeter, ElectricityDataStream and ElectricityMeterRegisterDetail.

```

<xsd:complexType name="ElectricityMeterRegisterDetail">
  <xsd:annotation>
    <xsd:documentation>
      Purpose - container for information about a register within an electricity meter
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="RegisterID" type="MeterRegisterIdentifier" minOccurs="0"/>
    <xsd:element name="NetworkTariffCode" type="NetworkTariffCode" nillable="true"
      minOccurs="0"/>
    <xsd:element name="NetworkAdditionalInformation"
      type="MeterNetworkAdditionalInformation" nillable="true" minOccurs="0"/>
    <xsd:element name="UnitOfMeasure" type="MeterUnitOfMeasure" nillable="true" minOccurs="0"/>
    <xsd:element name="TimeOfDay" type="MeterTimeOfDay" nillable="true" minOccurs="0"/>
    <xsd:element name="Multiplier" type="MeterMultiplier" nillable="true" minOccurs="0"/>
    <xsd:element name="DialFormat" type="MeterDialFormat" nillable="true" minOccurs="0"/>
    <xsd:element name="Suffix" type="NMIDataStreamSuffix" nillable="true" minOccurs="0"/>
    <xsd:element name="ControlledLoad" type="MeterControlledLoad" nillable="true" minOccurs="0"/>
    <xsd:element name="ConsumptionType" type="MeterConsumptionType" nillable="true"
      minOccurs="0"/>
    <xsd:element name="Demand1" type="MeterDemand" nillable="true" minOccurs="0"/>
    <xsd:element name="Demand2" type="MeterDemand" nillable="true" minOccurs="0"/>
    <xsd:element name="Status" type="MeterRegisterStatusCode" nillable="true" minOccurs="0"/>
    <xsd:element name="DirectionIndicator" type="DirectionIndicator" nillable="true"
      minOccurs="0"/>
    <xsd:element name="PreviousReading" type="ElectricityMeterReadData" nillable="true"
      minOccurs="0"/>
    <xsd:element name="HighLowConsumption" type="HighLowConsumption" nillable="true"
      minOccurs="0"/>
    <xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

```

```

<xsd:complexType name="ElectricityMeter">
  <xsd:annotation>
    <xsd:documentation>
      Purpose - container for electricity meter information
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="SerialNumber" type="MeterSerialNumber" nillable="true" minOccurs="0"/>
    <xsd:element name="NextScheduledReadDate" type="xsd:date" nillable="true" minOccurs="0"/>
    <xsd:element name="Location" type="MeterLocation" nillable="true" minOccurs="0"/>
    <xsd:element name="Hazard" type="MeterHazard" nillable="true" minOccurs="0"/>
    <xsd:element name="InstallationTypeCode" type="MeterInstallationTypeCode" nillable="true"
      minOccurs="0"/>
    <xsd:element name="Route" type="MeterRoute" nillable="true" minOccurs="0"/>
    <xsd:element name="Use" type="MeterUse" nillable="true" minOccurs="0"/>
    <xsd:element name="Point" type="MeterPoint" nillable="true" minOccurs="0"/>
    <xsd:element name="Manufacturer" type="MeterManufacturer" nillable="true" minOccurs="0"/>
    <xsd:element name="Model" type="MeterModel" nillable="true" minOccurs="0"/>
    <xsd:element name="TransformerLocation" type="MeterTransformerLocation" nillable="true"
      minOccurs="0"/>
    <xsd:element name="TransformerType" type="MeterTransformerType" nillable="true"
      minOccurs="0"/>
    <xsd:element name="TransformerRatio" type="MeterTransformerRatio" nillable="true"
      minOccurs="0"/>
    <xsd:element name="Constant" type="MeterConstant" nillable="true" minOccurs="0"/>
    <xsd:element name="LastTestDate" type="xsd:date" nillable="true" minOccurs="0"/>
    <xsd:element name="NextTestDate" type="xsd:date" nillable="true" minOccurs="0"/>
    <xsd:element name="TestResultAccuracy" type="MeterTestResultAccuracy" nillable="true"
      minOccurs="0"/>
    <xsd:element name="TestResultNotes" type="MeterTestResultNotes" nillable="true"
      minOccurs="0"/>
    <xsd:element name="TestPerformedBy" type="MeterTestPerformedBy" nillable="true"
      minOccurs="0"/>
    <xsd:element name="MeasurementType" type="MeterMeasurementType" nillable="true"
      minOccurs="0"/>
    <xsd:element name="ReadTypeCode" type="MeterReadTypeCode" nillable="true"
      minOccurs="0"/>
    <xsd:element name="RemotePhoneNumber" type="MeterRemotePhoneNumber" nillable="true"
      minOccurs="0"/>
    <xsd:element name="CommunicationsEquipmentType" type="MeterCommunicationsEquipmentType"
      nillable="true" minOccurs="0"/>
    <xsd:element name="CommunicationsProtocol" type="MeterCommunicationsProtocol" nillable="true"
      minOccurs="0"/>
    <xsd:element name="DataConversion" type="MeterDataConversion" nillable="true" minOccurs="0"/>
    <xsd:element name="DataValidations" type="MeterDataValidations" nillable="true"
      minOccurs="0"/>
    <xsd:element name="Status" type="MeterStatusCode" minOccurs="0"/>
    <xsd:element name="Program" type="MeterProgram" nillable="true" minOccurs="0"/>
    <xsd:element name="AdditionalSiteInformation" type="MeterAdditionalSiteInformation"
      nillable="true" minOccurs="0"/>
    <xsd:element name="EstimationInstructions" type="MeterEstimationInstructions" nillable="true"
      minOccurs="0"/>
    <xsd:element name="AssetManagementPlan" type="MeterAssetManagementPlan" nillable="true"
      minOccurs="0"/>
    <xsd:element name="CalibrationTables" type="MeterCalibrationTables" nillable="true"
      minOccurs="0"/>
    <xsd:element name="UserAccessRights" type="MeterUserAccessRights" nillable="true"
      minOccurs="0"/>
    <xsd:element name="Password" type="MeterPassword" nillable="true" minOccurs="0"/>
    <xsd:element name="TestCalibrationProgram" type="MeterTestCalibrationProgram" nillable="true"
      minOccurs="0"/>
    <xsd:element name="KeyCode" type="KeyCode" nillable="true" minOccurs="0"/>
    <xsd:element name="CustomerFundedMeter" type="CustomerFundedMeter" nillable="true"
      minOccurs="0"/>
    <xsd:element name="DisplayType" type="DisplayType" nillable="true" minOccurs="0"/>
    <xsd:element name="RegisterConfiguration" type="ElectricityMeterRegisterConfiguration"
      nillable="true" minOccurs="0"/>
  </xsd:sequence>
</complexType>

```

```

    <xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ElectricityDataStream">
  <xsd:annotation>
    <xsd:documentation>
      Purpose - container for electricity data stream information
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="Suffix" type="NMIDataStreamSuffix" nillable="true"/>
    <xsd:element name="ProfileName" type="ProfileName" nillable="true" minOccurs="0"/>
    <xsd:element name="AveragedDailyLoad" type="AveragedDailyLoad" nillable="true"
      minOccurs="0"/>
    <xsd:element name="DataStreamType" type="DataStreamType" nillable="true" minOccurs="0"/>
    <xsd:element name="Status" type="NMIStatusCode" nillable="true" minOccurs="0"/>
    <xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

```

### CATSTableReplication\_r31.xsd

Change the version attribute of versioned type ElectricityNMIDataStreamRow impacted by removal of enumeration of DataStreamType :

Change from : <xsd:attribute name="version" type="r9" use="optional"/>  
 Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

Change the version attribute of versioned type ElectricityNMIDataStreamRowBDT impacted by removal of enumeration of DataStreamType :

Change from : <xsd:attribute name="version" type="r9" use="optional"/>  
 Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

Change the version attribute of versioned type ElectricityCATSChangeRequestNMIDataStreamRow impacted by removal of enumeration of DataStreamType :

Change from : <xsd:attribute name="version" type="r29" use="optional" default="r29"/>  
 Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

### MDMTReports\_r31.xsd

Remove the enumeration restriction on MDMTReportsDataStreamType

```

<xsd:simpleType name="MDMTReportsDataStreamType">
  <xsd:annotation>
    <xsd:documentation>
      Purpose - MDM Reports only provide support for "Interval" and "Consumption"
      data streams. That restriction is implemented in MSATS.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="DataStreamType" />
  <xsd:enumeration value="Interval"/>
  <xsd:enumeration value="Consumption"/>
  </xsd:restriction>
</xsd:simpleType>

```



## ElectricityMasterStandingData.xsd

Add FromDate and ToDate ElectricityMasterStandingData type:

```
<xsd:complexType name="ElectricityMasterStandingData">
  <xsd:annotation>
    <xsd:documentation>
      Purpose - container for non-repeating standing data associated with an
      electricity NMI
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="JurisdictionCode" type="JurisdictionCode" nillable="true"
      minOccurs="0"/>
    .
    .
    <xsd:element name="CustomerThresholdCode" type="EMSDCustomerThresholdCode"
      nillable="true" minOccurs="0"/>
    <xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

## Common\_r31.xsd

Add FromDate and ToDate to RoleAssignment.

```
<xsd:complexType name="RoleAssignment">
  <xsd:annotation>
    <xsd:documentation>
      Purpose - Associate a party with a role they are performing or intend to perform.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="Party" type="PartyIdentifier" nillable="true" minOccurs="0"/>
    <xsd:element name="Role" type="RoleIdentifier"/>
    <xsd:element name="FromDate" type="xsd:date" minOccurs="0"/>
    <xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

## Gas\_r31.xsd

Change the version attribute of versioned GasStandingData type impacted by changing of RoleAssignments type:

Change from : <xsd:attribute name="version" type="r29" use="optional" default="r29"/>  
 Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

## Bar\_r31.xsd

Change the version attribute of versioned AllocationNotification type impacted by changing of ShipperChangeRequestType type:

Change from : <xsd:attribute name="version" type="r13" use="required"/>  
 Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

Change the version attribute of versioned AllocationNotification type impacted by changing of QuantityNotification type:

Change from : <xsd:attribute name="version" type="r13" use="required"/>

Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

Change the version attribute of versioned ReconciliationNotification type impacted by changing of QuantityNotification type:

Change from : <xsd:attribute name="version" type="r13" use="required"/>

Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

Change the version attribute of versioned SwingServiceNotification type impacted by changing of QuantityNotification type:

Change from : <xsd:attribute name="version" type="r13" use="required"/>

Change to : <xsd:attribute name="version" type="r31" use="optional" default="r31"/>

## 6. 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	Status
Acknowledgements_r15.xsd	
aseXML_r31.xsd	Modified
BAR_r31.xsd	Modified
BulkDataTool_r15.xsd	
CATSReports_r28.xsd	
CATSTableReplication_r31.xsd	Modified
ClientInformation_r15.xsd	
Common_r31.xsd	Modified
CustomerDetails_r19.xsd	
CustomerTransfer_r29.xsd	
Electricity_r31.xsd	Modified
ElectricityHighSpeedMonitoring_r26.xsd	
ElectricityMasterStandingData.xsd	Modified
ElectricityMMS_r28.xsd	
Enumerations.xsd	
Events_r31.xsd	Modified
Faults_r15.xsd	
Gas_r31.xsd	Modified
GasMarketWholesale_r31.xsd	Modified
Header_r28.xsd	
HighSpeedMonitoring_r26.xsd	
MarketWholesale_r20.xsd	
MDMTReports_r31.xsd	Modified
MeterDataManagement_r29.xsd	
NetworkBilling_r15.xsd	
NMIDataAccess_r31.xsd	Modified
NOSAssessment_r28.xsd	

File	Status
NOSBooking_r28.xsd	
NOSCommon_r28.xsd	
NOSEquipment_r18.xsd	
OneWayNotification_r25.xsd	
Reports_r22.xsd	
ServiceOrder_r17.xsd	
TableReplication_r15.xsd	
Transactions_r28.xsd	

## 7. Schema Test

### 7.1. Test

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

#### 7.1.1 Test Platforms

Supplied samples have been tested using the following parsers:

- MSXML 6.0
- MSXML 4.0
- Xerces 2.2.1
- Xerces 2.9.1
- XMLSpy 2011

#### 7.1.2 CR49 Test Cases

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_r31.xml  
 VICGAS\_GasRetrieveResponseData\_InjectionNomination\_r31NOIHNS.xml  
 VICGAS\_GasSubmitRequestData\_IHN\_NOIHNS\_r31.xml  
 VICGAS\_GasSubmitRequestData\_IHN\_r31.xml  
 VICGAS\_SearchResponse\_Data\_IHN\_NOIHNS\_r31.xml  
 VICGAS\_SearchResponse\_Data\_IHN\_r31.xml  
 VICGAS\_SubmitResponseData\_IHN\_Invalid\_r31.xml  
 VICGAS\_SubmitResponseData\_IHN\_NOIHNS\_r31.xml  
 VICGAS\_SubmitResponseData\_IHN\_r31.xml

#### 7.1.3 CR50 Test Cases

NEMMSATS\_NMIDiscoveryRequestType2\_r31.xml  
 NEMMSATS\_NMIDiscoveryRequestType3\_r31.xml  
 NEMMSATS\_NMIDiscoveryRequestType3\_Invalid\_r31.xml  
 NEMMSATS\_NMIDiscoveryType3\_Response\_ITD\_r31.xml  
 NEMMSATS\_NMIDiscoveryType3\_Response\_NNS\_OTR\_SAB\_r31.xml  
 NEMMSATS\_NMIDiscoveryType3\_Response\_MCR\_TRM\_r31.xml  
 NEMMSATS\_NMIDiscoveryType3\_Response\_TRI\_r31.xml

NEMMSATS\_catsm\_energypatch\_2501\_CustClass\_r31.xml  
 NEMMSATS\_ReportResponseNMIMasterMeterConfig\_r31.xml  
 NEMMSATS\_catsm\_energypatch\_2501\_CustClass\_r31.xml  
 NEMMSATS\_catsm\_NMIStandingDataResponse\_r31.xml  
 NEMMSATS\_ChangeRequestAllFieldsMeterConfig\_r31.xml  
 NEMMSATS\_NMIStandingDataResponseMeterConfig\_r31.xml  
 NEMMSATS\_SnapshotReportMasterDataStreams\_r31.xml

### 7.1.4 Test Process

1. Obtain a copy of the 5 existing regression test suite XML files
  - a. nem\_samples\_r30.zip
  - b. nem\_wholesale\_samples\_r30.zip
  - c. nemb2b\_samples\_r30.zip
  - d. sawa\_samples\_r30.zip
  - e. vicgas\_samples\_r30.zip
2. Obtain a copy of the new R30 test suite XML files. Replace old files with new files where the names match.
3. Unzip all test XML files a folder
4. Replace “xmlns:ase=urn:aseXML:r30” with “xmlns:ase=urn:aseXML:r31”
5. Replace “xsi:schemaLocation=urn:aseXML:r30” with [http://www.nemmco.com.au/aseXML/schemas/r30/aseXML\\_r30.xsd](http://www.nemmco.com.au/aseXML/schemas/r30/aseXML_r30.xsd) with “xsi:schemaLocation=urn:aseXML:r31 d:/r31schema/aseXML\_r31.xsd”
6. Run the test process using the 4 supported XML Toolkits.
7. Check output log for any successful parse results, as well as expected or unexpected errors.
  - a. Regression test results for files suffixed with “invalid” is an (expected) error.
  - b. Otherwise, a successful parse result is expected.

### 7.1.5 Test Results

All OK on all Test Platforms, see section 7.1.1

- 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.

## 8. 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: 21/12/2012

Option	# Votes	% Vote
For	6	100
Against	-	-
Abstained	-	-
Total Members Present	6	100%

## 9. AEMO Approval

The schema approval and approval date are identified below

Status	Date	Authorised by
<b>Approved</b> – The schema has been approved by AEMO and is formally released for use		