

Schema Release Notes
AseXML Schema Working Group
Release r19

Document History

Version	Date	Authors	Comments
1.0	22/06/2006	Bhawna Kapoor	Initial draft
1.1	23/06/2006	Bhawna Kapoor	Updated as per ASWG review comments
1.2	26/06/2006	Bhawna Kapoor	Updated as per ASWG review comments
2.0	5/57/2006	Darren Field	Version approved for release

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1. Introduction

Version r19 of the aseXML schema has been developed from r18. The r19 version was created to:

- Provide bug fixes and enhancements relating to the Market Settlement and Transfer Solution (MSATS) system of NEMMCO.
- Provide changes and enhancements relating to the WA Electricity market.

This document identifies the changes made to the schema for this release.

2. Change Requests

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

CR#	Description
26	WA Electricity Market Requirements for Changes to aseXML
27	MSATS Enhancements

3. 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 names	Added	Removed	Modified
Acknowledgements_r15.xsd			
aseXML_r19.xsd			X
BAR_r15.xsd			
BulkDataTool_r15.xsd			
CATSReports_r19.xsd			X
CATSTableReplication_r19.xsd			X
ClientInformation_r15.xsd			
Common_r19.xsd			X
CustomerDetails_r19.xsd			X
CustomerTransfer_r19.xsd			X
Electricity_r19.xsd			X
Enumerations.xsd			
Events_r19.xsd			X
Faults_r15.xsd			
Gas_r19.xsd			X
Header_r15.xsd			
MDMTReport_r15.xsd			
MeterDataManagement_r19.xsd			X
NetworkBilling_r15.xsd			
NMIDataAccess_r17.xsd			
NOSAssessment_r18.xsd			
NOSBooking_r18.xsd			
NOSCommon_r18.xsd			
NOSEquipment_r18.xsd			
Reports_r15.xsd			
ServiceOrder_r17.xsd			
TableReplication_r15.xsd			
Transactions_r19.xsd			X
No of files added	0		
No of files removed		0	
		No of files modified	11
		Total No of files	28

4. File Change Summary

4.1. Acknowledgements

- No change.

4.2. aseXML

- Changed aseXML namespace to urn:aseXML:r19
- r19 files included: CATSReports_r19, CATSTableReplication_r19, Common_r19, CustomerDetails_r19, CustomerTransfer_r19, Electricity_r19, Events_r19, Gas_r19, MeterDataManagement_r19, Transactions_r19.

4.3. BAR

- No change.

4.4. BulkDataTool

- No change.

4.5. CATSReports

- Added CATSSStandingDataQualityReportParameters.
 - <xsd:complexType name="CATSSStandingDataQualityReportParameters">
 - <xsd:annotation>
 - <xsd:documentation> Purpose - Parameter definition for Standing Data Report Report Name - Participant Standing Data report MSATS Report - STANDING DATA QUALITY </xsd:documentation>
 - </xsd:annotation>
 - <xsd:complexContent>
 - <xsd:extension base="BaseReportParameters">
 - <xsd:sequence>
 - <xsd:element name="RunDate" type="xsd:dateTime"/>
 - </xsd:sequence>
 - <xsd:attribute name="version" type="r19" use="optional"/>
 - </xsd:extension>
 - </xsd:complexContent>
 - </xsd:complexType>
- Added CATSSDRTrafficLightReportParameters.
 - <xsd:complexType name="CATSSDRTrafficLightReportParameters">
 - <xsd:annotation>

```

- <xsd:documentation> Purpose - Parameter definition for SDR Traffic Light Report
  Report Name - SDR Export MSATS Report - STND DAT TRAFFICLGHT
</xsd:documentation>
</xsd:annotation>
- <xsd:complexContent>
- <xsd:extension base="BaseReportParameters">
- <xsd:sequence>
  <xsd:element name="StatsDate" type="xsd:date"/>
</xsd:sequence>
- <xsd:attribute name="version" type="r19" use="optional"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

- Added MDMTMeterDataDeliveryReportParameters.

```

- <xsd:complexType name="MDMTMeterDataDeliveryReportParameters">
- <xsd:annotation>
- <xsd:documentation> Purpose - Parameter definition for Meter Data Delivery Report
  Report Name - SDD Export MSATS Report - MTR DATA DEL XML CRT
</xsd:documentation>
</xsd:annotation>
- <xsd:complexContent>
- <xsd:extension base="BaseReportParameters">
- <xsd:sequence>
  <xsd:element name="FromDate" type="xsd:date"/>
  <xsd:element name="ToDate" type="xsd:date"/>
</xsd:sequence>
- <xsd:attribute name="version" type="r19" use="optional"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

- Changed the CATSSnapshotReport documentation.

```

<xsd:complexType name="CATSSnapshotReportParameters">
- <xsd:annotation>
- <xsd:documentation> Purpose - Parameters for a CATS Snapshot Report. Report
  Name - Snapshot MSATS Report - C8 Purpose - Parameters for a CATS Snapshot
  Report. Report Name Snapshot MSATS Report </xsd:documentation>

```

```

</xsd:annotation>
</xsd:complexType>

```

- DataRangeReportParameters added for Security Report.
 - <xsd:complexType name="DataRangeReportParameters">
 - <xsd:annotation>
 - <xsd:documentation> Purpose - Parameters for a CATS Security Report Report
 - Name - Security </xsd:documentation>
 - </xsd:annotation>
 - <xsd:complexContent>
 - <xsd:extension base="BaseReportParameters">
 - <xsd:sequence>
 - <xsd:element name="FromDate" type="xsd:dateTime"/>
 - <xsd:element name="ToDate" type="xsd:dateTime"/>
 - </xsd:sequence>
 - <xsd:attribute name="version" type="r19"/>
 - </xsd:extension>
 - </xsd:complexContent>
 - </xsd:complexType>

4.6. CATSTableReplication

- Added following optional elements to ElectricityNMIMasterGroup.
 - DistanceFromSubstation
 - VoltageType
 - PoleNumber
 - AccessDetails
- Changed the version attribute of ElectricityNMIMasterRow to r19.
 - <xsd:complexType name="ElectricityNMIMasterRow" ... >
 - <xsd:complexContent>
 - <xsd:extension base="ReplicationDateRangeRow" ... >
 - <xsd:attribute name="version" use="optional" type="r19"/>
 - </xsd:extension>
 - </xsd:complexContent>
 - </xsd:complexType>
- Added following optional elements to ElectricityNMIMeterGroup.

- KeyCode
- CustomerFundedMeter
- Changed the version attribute of ElectricityNMIMeterRow to r19.
 - `<xsd:complexType name="ElectricityNMIMeterRow" ... >`
 - `<xsd:complexContent>`
 - `<xsd:extension base="ReplicationDateRangeRow" ... >`
 - `<xsd:attribute name="version" use="optional" type="r19"/>`
 - `</xsd:extension>`
 - `</xsd:complexContent>`
 - `</xsd:complexType>`
- Changed the version attribute of ElectricityNMIMasterRowBDT to r19.
 - `<xsd:complexType name="ElectricityNMIMasterRowBDT" ... >`
 - `<xsd:complexContent>`
 - `<xsd:extension base="ReplicationDateRangeRow" ... >`
 - `<xsd:attribute name="version" use="optional" type="r19"/>`
 - `</xsd:extension>`
 - `</xsd:complexContent>`
 - `</xsd:complexType>`
- Changed the version attribute of ElectricityNMIMeterRowBDT to r19.
 - `<xsd:complexType name="ElectricityNMIMeterRowBDT" ... >`
 - `<xsd:complexContent>`
 - `<xsd:extension base="ReplicationDateRangeRow" ... >`
 - `<xsd:attribute name="version" use="optional" type="r19"/>`
 - `</xsd:extension>`
 - `</xsd:complexContent>`
 - `</xsd:complexType>`
- Changed the version attribute of ElectricityCATSChangeRequestNMIMasterRow to r19.
 - `<xsd:complexType name="ElectricityCATSChangeRequestNMIMasterRow" ... >`
 - `<xsd:complexContent>`
 - `<xsd:extension base="ReplicationBaseRow" ... >`
 - `<xsd:attribute name="version" use="optional" type="r19"/>`
 - `</xsd:extension>`
 - `</xsd:complexContent>`
 - `</xsd:complexType>`

- Changed the version attribute of ElectricityCATSChangeRequestNMIMeterRow to r19.
 - `<xsd:complexType name="ElectricityCATSChangeRequestNMIMeterRow" ... >`
 - `<xsd:complexContent>`
 - `<xsd:extension base="ReplicationBaseRow" ... >`
 - `<xsd:attribute name="version" use="optional" type="r10r19"/>`
 - `</xsd:extension>`
 - `</xsd:complexContent>`
 - `</xsd:complexType>`

- Added a new simpleType MSATSCodeValueType
 - `<xsd:simpleType name="MSATSCodeValueType">`
 - `<xsd:annotation>`
 - `<xsd:documentation> MSATS Data Model Column - ObjRuleDesc`
 - `</xsd:documentation>`
 - `</xsd:annotation>`
 - `<xsd:restriction base="xsd:string">`
 - `<xsd:maxLength value="15"/>`
 - `<xsd:minLength value="1"/>`
 - `<xsd:whiteSpace value="collapse"/>`
 - `</xsd:restriction>`
 - `</xsd:simpleType>`

- Added a new simpleType MSATSCodeValueDescription
 - `<xsd:simpleType name="MSATSCodeValueDescription">`
 - `<xsd:annotation>`
 - `<xsd:documentation> MSATS Data Model Column - ObjRuleDesc`
 - `</xsd:documentation>`
 - `</xsd:annotation>`
 - `<xsd:restriction base="xsd:string">`
 - `<xsd:maxLength value="200"/>`
 - `<xsd:minLength value="1"/>`
 - `<xsd:whiteSpace value="collapse"/>`
 - `</xsd:restriction>`
 - `</xsd:simpleType>`

- Added a simpleType MSATSCodeValue.
 - `<xsd:simpleType name="MSATSCodeValue">`
 - `<xsd:annotation>`

- <xsd:documentation> MSATS Data Model Column - ObjRuleDesc
</xsd:documentation>
</xsd:annotation>
 - <xsd:restriction base="xsd:string">
<xsd:maxLength value="15"/>
<xsd:minLength value="1"/>
<xsd:whiteSpace value="collapse"/>
</xsd:restriction>
</xsd:simpleType>

- Replication row MSATSCodeValuesRow added
 - <xsd:complexType name="MSATSCodeValuesRow">
 - <xsd:annotation>
 - <xsd:documentation> Purpose - Row of the CATSChangeStatusCodes table
MSATS Data Model Table - CATS_CR Status Codes Replication Table Name -
CATSChangeStatusCodes </xsd:documentation>
 - </xsd:annotation>
 - <xsd:complexContent>
 - <xsd:extension base="ReplicationBaseRow">
 - <xsd:sequence>
 - <xsd:element name="Type" type="MSATSCodeValueType"/>
 - <xsd:element name="Value" type="MSATSCodeValue"/>
 - <xsd:element name="Description" type="MSATSCodeValueDescription"/>
 - </xsd:sequence>
 - <xsd:attribute name="version" type="r19" use="optional"/>
 - </xsd:extension>
 - </xsd:complexContent>
 - </xsd:complexType>

- CATSTransactionFieldValidationRow, ProvideRole element uses type RoleIdentifier in file
 - <xsd:complexType name="CATSTransactionFieldValidationRow" ... >
 - <xsd:complexContent>
 - <xsd:extension base="ReplicationDateRangeRow" ... >
 - <xsd:sequence>
 - <xsd:element name="ProvideRole" nillable="true" minOccurs="0"
type="YesNoRoleIdentifier"/>
 - </xsd:sequence>
 - <xsd:attribute name="version" type="r19" use="optional"/>

```

        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>

```

- CATSTransactionFieldValidationRow version attribute added and set to r19.

4.7. ClientInformation

- No change.

4.8. Common

- Added an effectiveDateTime attribute to NMISstandingData.
 - `<xsd:complexType name="NMISstandingData" abstract="true" ... >`
 - `<xsd:attribute name="effectiveDateTime" type="xsd:dateTime"/>`

4.9. CustomerDetails

- Added an optional element CustomerType to SiteAddressDetails.
 - `<xsd:complexType name="SiteAddressDetails" ... >`
 - `<xsd:sequence>`
 - `<xsd:element name="CustomerType" type="CustomerType" minOccurs="0"/>`
 - `</xsd:sequence>`
 - `</xsd:complexType>`
- Updated the version attribute of SiteAccessDetails
 - `<xsd:complexType name="SiteAccessDetails" ... >`
 - `<xsd:complexContent>`
 - `<xsd:extension base="NMISstandingData" ... >`
 - `<xsd:attribute name="version" use="required" type="r19"/>`
 - `</xsd:extension>`
 - `</xsd:complexContent>`
 - `</xsd:complexType>`
- Updated the version attribute of AmendMeterRouteDetails to r19
 - `<xsd:complexType name="AmendMeterRouteDetails" ... >`
 - `<xsd:attribute name="version" use="required" type="r19"/>`
 - `</xsd:complexType>`

4.10. CustomerTransfer

- Added a new type AccessContract.
 - <xsd:complexType name="AccessContract">
 - <xsd:sequence>
 - <xsd:element name="Name" minOccurs="0">
 - <xsd:simpleType>
 - <xsd:restriction base="xsd:string">
 - <xsd:maxLength value="50"/>
 - <xsd:minLength value="1"/>
 - <xsd:whiteSpace value="collapse"/>
 - </xsd:restriction>
 - </xsd:simpleType>
 - </xsd:element>
 - <xsd:element name="Date" type="xsd:date" minOccurs="0"/>
 - </xsd:sequence>
 - </xsd:complexType>

- Added an optional element AccessContract to CATSChangeRequestData
 - <xsd:complexType name="CATSChangeRequestData" ... >
 - <xsd:sequence>
 - <xsd:element name="AccessContract" type="AccessContract" minOccurs="0"/>
 - </xsd:sequence>
 - </xsd:complexType>

- Updated the version attribute of CATSChangeRequest and CATSNotification to r19.
- Added NMISStatus to CATSNotification
 - <xsd:complexType name="CATSNotification" ... >
 - <xsd:sequence>
 - <xsd:element name="NMISStatus" type="NMISStatusCode" minOccurs="0"/>
 - </xsd:sequence>
 - <xsd:attribute name="version" use="required" type="r10r19"/>
 - </xsd:complexType>

4.11. Electricity

- Added following new elements:
 - KeyCode
 - CustomerFundedMeter
 - DisplayType

- HighLowConsumption
- DistanceFromSubstation
- VoltageType
- PoleNumber

- Extended ServiceOrderSubType enumerations
 - `<xsd:simpleType name="ServiceOrderSubType" ... >`
 - `<xsd:restriction base="xsd:string" ... >`
 - `<xsd:enumeration value="Warning"/>`
 - `<xsd:enumeration value="Onsite Test"/>`
 - `<xsd:enumeration value="Lab Test"/>`
 - `<xsd:enumeration value=""/>`
 - `</xsd:restriction>`
 - `</xsd:simpleType>`

- Updated the version attribute of ElectricityServiceOrderType to r19.
- Extended ElectricityMasterStandingData enumerations
 - `<xsd:complexType name="ElectricityMasterStandingData" ... >`
 - `<xsd:sequence>`
 - `<xsd:element name="DistanceFromSubstation" type="DistanceFromSubstation" nillable="true" minOccurs="0"/>`
 - `<xsd:element name="VoltageType" type="VoltageType" nillable="true" minOccurs="0"/>`
 - `<xsd:element name="PoleNumber" type="PoleNumber" nillable="true" minOccurs="0"/>`
 - `<xsd:element name="AccessDetails" type="AccessDetail" minOccurs="0"/>`
 - `</xsd:sequence>`
 - `</xsd:complexType>`

- Extended ElectricityMeterRegisterDetail enumerations
 - `<xsd:complexType name="ElectricityMeterRegisterDetail" ... >`
 - `<xsd:sequence>`
 - `<xsd:element name="PreviousReading" type="ElectricityMeterReadData" nillable="true" minOccurs="0"/>`
 - `<xsd:element name="HighLowConsumption" type="HighLowConsumption" nillable="true" minOccurs="0"/>`
 - `</xsd:sequence>`
 - `</xsd:complexType>`

- Extended ElectricityMeter enumerations
 - <xsd:complexType name="ElectricityMeter" ... >
 - <xsd:sequence>
 - <xsd:element name="KeyCode" nillable="true" minOccurs="0">
 - <xsd:simpleType>
 - <xsd:restriction base="KeyCode"/>
 - </xsd:simpleType>
 - </xsd:element>
 - <xsd:element name="CustomerFundedMeter" type="CustomerFundedMeter" nillable="true" minOccurs="0"/>
 - <xsd:element name="DisplayType" type="DisplayType" nillable="true" minOccurs="0"/>
 - </xsd:sequence>
 - </xsd:complexType>
- Updated the version attribute of ElectricityStandingData to r19.

4.12. Enumerations

- No change.

4.13. Events

- r19 version type added.

4.14. Faults

- No change.

4.15. Gas

- GasStandingData version attribute updated to r19 as result of NMISStandingData change.

4.16. Header

- No change.

4.17. MDMTRReport

- No change.

4.18. MeterDataManagement

- Added following new Elements:
 - MeterReadingGroupType
 - <xsd:simpleType name="MeterReadingGroupType">
 - <xsd:annotation>

- <xsd:documentation> This is a method of grouping meters that belong to either one end-use customer (NMI), one Builder via all portable meters being defined as belonging to one Site (the builders address even though these meters are temporarily installed at building sites), or finally for a large company (eg Water Corp) by grouping all the Meters into one or more Routes (Route ID). Values used by WA market are NMI, SITE or ROUTE.</xsd:documentation>

</xsd:annotation>

- <xsd:restriction base="xsd:string">

<xsd:enumeration value="NMI"/>

<xsd:enumeration value="Site"/>

<xsd:enumeration value="Route"/>

</xsd:restriction>

</xsd:simpleType>

o MeterReadingGroupId

- <xsd:simpleType name="MeterReadingGroupId">

<xsd:annotation>

- <xsd:documentation> This element is used to define the ID associated with the Meter Reading Group Type.</xsd:documentation>

</xsd:annotation>

- <xsd:restriction base="xsd:string">

<xsd:minLength value="1"/>

<xsd:whiteSpace value="collapse"/>

</xsd:restriction>

</xsd:simpleType>

o MeterReadingGroup

- <xsd:complexType name="MeterReadingGroup">

<xsd:sequence>

- <xsd:element name="MeterReadingGroupId" type="MeterReadingGroupId"/>

</xsd:sequence>

- <xsd:attribute name="context" type="MeterReadingGroupType" use="optional"/>

</xsd:complexType>

- Added an optional element CustomerGroup to MeterDataNotification.
- Updated the version attribute of the MeterDataNotification to r19.
- Added an optional element MeterReadingGroup to MeterDataNotification.

- <xsd:complexType name="MeterDataNotification" ... >


```

- <xsd:sequence>
  - <xsd:element name="MeterReadingGroup" type="MeterReadingGroup"
    minOccurs="0"/>
</xsd:sequence>
- <xsd:attribute name="version" use="required" type="r17r19"/>
</xsd:complexType>

```

- Added two new transactions:

- MeterReadingReferenceDataRequest

```

- <xsd:complexType name="MeterReadingReferenceDataRequest">
  - <xsd:annotation>
    - <xsd:documentation> For a given Reading Group Type (NMI, Site or Route), this
      transaction is used by an external system to request details of the meters related to
      the group id, such that an external system can accept meter readings and perform
      basic validation before submission to the Meter Reading
      System.</xsd:documentation>
  </xsd:annotation>
  - <xsd:sequence>
    - <xsd:element name="MeterReadingGroup" type="MeterReadingGroup"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r19"/>
</xsd:complexType>

```

- MeterReadingReferenceDataResponse

```

- <xsd:complexType name="MeterReadingReferenceDataResponse">
  - <xsd:sequence>
    - <xsd:element name="MeterReadingGroup" type="MeterReadingGroup"/>
    - <xsd:element name="NMIStandingData" type="NMIStandingData"/>
    - <xsd:element name="Event" type="Event" nillable="true" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="version" type="r19"/>
</xsd:complexType>

```

4.19. NetworkBilling

- No change.

4.20. NMIDataAccess

- No change.

4.21. NOSAssessment

- No change.

4.22. NOSBooking

- No change.

4.23. NOSCommon

- No change.

4.24. NOSEquipment

- No change.

4.25. Reports

- No change.

4.26. ServiceOrder

- No change.

4.27. TableReplication

- No change.

4.28. Transactions

- Two new transactions added:
 - MeterReadingReferenceDataRequest
 - MeterReadingReferenceDataResponse

5. Disclaimer

Independent Confirmation - ASWG strongly advises that all information or material contained in this file should be independently verified before use. The user may need to inform themselves of other relevant information or business processes.

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