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| Schema Release  AseXML Schema Working Group  Release r39 |

May 2020

Draft Release Date: 25/05/2020

Final Release Date: 01/06/2020

Version Control

|  |  |  |
| --- | --- | --- |
| Version | Release date | Changes |
| #1.0 | 25/05/2020 | Initial draft |
| #1.1 | 01/06/2020 | Final version for publication |
|  |  |  |

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# Introduction

Version r39 of the aseXML schema has been developed from r38. 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.

# Change Requests

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

|  |  |
| --- | --- |
| **CR#** | **Description** |
| 64 | aseXML Schema Change Request – 5MS |
| 65 | aseXML Schema Change Request – Customer Switching |

These Change Requests are available from the ASWG Link page for members (<https://link.aemo.com.au/aswg/SitePages/Home.aspx>) or the aseXML page on the AEMO website upon publication (<https://www.aemo.com.au/energy-systems/market-it-systems/asexml-standards/asexml-schemas>) for review by all impacted parties.

# 

# 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.

1. Impacted items

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modified types** | **Derived types** | **Versioned types affected** | **Transactions potentially affected** | **Schema files affected** |
|  |  |  |  | aseXML\_r39.xsd |
| R39 |  |  |  | Events\_r39.xsd |
|  |  | CATSChangeManagementReportParameters  CATSMasterReportParameters  CATSNMIDiscoveryReportParameters  CATSSnapshotReportParameters | ReportRequest ReportResponse | CATSReport\_r39.xsd |
| ElectricityMasterStandingData |  | ElectricityNMIMasterGroup  ElectricityStandingData | MeterDataVerifyRequest  MeterDataMissingNotification  NMIStandingDataResponse  NMIDiscoveryResponse  CATSChangeRequest  CATSNotification  CATSDataRequest  ReplicationNotification  ReportResponse | ElectriityMasterStandingData\_r39.xsd |
|  |  | MDMTSettlementDateGroup  MDMTSettlementCaseGroup  MDMTMSPLoadAggregationErrorReportParameters  MDMTPPSReportParameters  MDMTHighPriorityMissingDataReportParameters  MDMTDataStreamMissingDataReportParameters  MDMTMismatchDataReportParameters  UFEFactorValuesByLocalAreaReportParameters  UFEValidationReportParameters | ReportRequest ReportResponse | MDMTReports\_r39.xsd |
|  |  | CATSReports  MDMDTReports | ReportResponse | Reports\_r39.xsd |
| NMIStandingDataResponse |  | NMIStandingDataResponse | NMIStandingDataResponse | NMIDataAccess\_r39.xsd |
| Reading |  |  | NMIStandingDataResponse | Common\_r39.xsd |
| PreviousReadings |  |  | NMIStandingDataResponse | Common\_r39.xsd |

# File Change Summary

The following file changes are implemented to create the r39 schema version

## aseXML

Changed aseXML namespace to urn:aseXML:r39

## Changes

|  |  |  |  |
| --- | --- | --- | --- |
| **Chg #** | **Item #** | **Description of change** | **Filename** |
| 1 | 1,2,3,4 | Replace version of schema from r38 to r39 | aseXML\_r39.xsd |
| 2 | 1 | Inclusion of RM Reports: RM37. RM38, RM39, RM43, RM46 | MDMTReports\_r39.xsd |
| 3 | 2 | Update of existing ‘Last Sequence Number’ elements to optional | MDMTReports\_r39.xsd |
| 4 | 2 | Update of existing ‘Last Sequence Number’ elements to optional | CATSReports\_r39.xsd |
| 5 | 3 | Addition of new x of y message block | Reports\_r39.xsd |
| 6 | 4 | Addition of new Second TNI number for Cross boundary NMIs | ElectricityMasterStandingData\_r39.xsd |
| 7 | 1,2,3,4 | Registration of r39 release | Events\_r39.xsd |
| 8 |  | Define new complex types | Common\_r39.xsd |
| 9 |  | Add element ‘PreviousReadings’ to ‘NMIStandingDataResponse’ | NMIDataAccess\_r39.xsd |
| 10 |  | Update ‘NMIStandingDataResponse’ version type to r39 | NMIDataAccess\_r39.xsd |

1. Table 2‑1 Change Log

### Schema change description

#### aseXml\_r39.xsd

New file to replace aseXML\_r38.xsd and include the four r39 file versions listed below.

<xsd:schema xmlns="urn:aseXML:r39" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" targetNamespace="urn:aseXML:r39" version="r39" xsi:schemaLocation="urn:aseXML:r39 aseXML\_r39.xsd">

<xsd:include schemaLocation="Events\_r39.xsd">

<xsd:include schemaLocation="Reports\_r39.xsd">

<xsd:include schemaLocation="ElectricityMasterStandingData\_r39.xsd"/>

<xsd:include schemaLocation="CATSReports\_r39.xsd">

<xsd:include schemaLocation="MDMTReports\_r39.xsd">

<xsd:include schemaLocation="NMIDataAccess\_r39.xsd">

<xsd:include schemaLocation="Common\_r39.xsd"/>

#### CATSReports\_r39.xsd

Update “LastSequenceNumber” to optional

<xsd:complexType name="CATSChangeManagementReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameters for a CATS Change Management Report

Report Name - ChangeManagement

MSATS Report - C3

</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:element name="AsAtDate" type="xsd:dateTime"/>

<xsd:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

<xsd:choice>

<xsd:element name="NMI" type="NMI"/>

<xsd:sequence>

<xsd:element name="NMIClassificationCode" type="NMIClassificationCode"/>

<xsd:element name="JurisdictionCode" type="JurisdictionCode"/>

</xsd:sequence>

</xsd:choice>

<xsd:element name="ExcludeParticipant" type="YesNo" minOccurs="0"/>

<xsd:element name="Participant" type="PartyIdentifier"/>

<xsd:element name="ExcludeRole" type="YesNo" minOccurs="0"/>

<xsd:element name="Role" type="RoleIdentifier" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="CATSMasterReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameters for a CATS Master Report

Report Name - Master

MSATS Report - C4

</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:element name="AsAtDate" type="xsd:date"/>

<xsd:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

<xsd:choice>

<xsd:element name="NMI" type="NMI"/>

<xsd:sequence>

<xsd:element name="NMIClassificationCode" type="NMIClassificationCode"/>

<xsd:element name="JurisdictionCode" type="JurisdictionCode"/>

</xsd:sequence>

</xsd:choice>

<xsd:element name="ExcludeParticipant" type="YesNo" minOccurs="0"/>

<xsd:element name="Participant" type="PartyIdentifier"/>

<xsd:element name="ExcludeRole" type="YesNo" minOccurs="0"/>

<xsd:element name="Role" type="RoleIdentifier"/>

<xsd:element name="ReportType">

<xsd:simpleType>

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

<xsd:enumeration value="Summary"/>

<xsd:enumeration value="Detailed"/>

</xsd:restriction>

</xsd:simpleType>

</xsd:element>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="CATSNMIDiscoveryReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameters for a CATS NMI Discovery Report

Report Name - NMIDiscovery

MSATS Report - C6

Detail - The NMI/Jurisdiction choice is ignored if a report type of Source and Content is selected. One of NMI/Jurisdiction should however be provided for a report type of Statistic.

</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:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

<xsd:choice minOccurs="0">

<xsd:element name="NMI" type="NMI"/>

<xsd:element name="JurisdictionCode" type="JurisdictionCode"/>

</xsd:choice>

<xsd:element name="Participant" type="PartyIdentifier"/>

<xsd:element name="ReportType">

<xsd:simpleType>

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

<xsd:enumeration value="SourceContent"/>

<xsd:enumeration value="Statistic"/>

</xsd:restriction>

</xsd:simpleType>

</xsd:element>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="CATSSnapshotReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameters for a CATS Snapshot Report. Report Name

Snapshot MSATS Report

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="BaseReportParameters">

<xsd:sequence>

<xsd:element name="Participant" type="PartyIdentifier"/>

<xsd:element name="AsAtDateTime" type="xsd:dateTime"/>

<xsd:element name="Tables" type="Tables"/>

<xsd:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

#### ElectricityMasterStandingData\_r39.xsd

Addition of new element

<xsd:group name="ElectricityNMIMasterGroup">

<xsd:annotation>

<xsd:documentation>

Purpose - Common NMI Master elements across Standing Data and Change Requests

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="JurisdictionCode" type="JurisdictionCode" nillable="true" minOccurs="0"/>

<xsd:element name="NMIClassificationCode" type="NMIClassificationCode" nillable="true" minOccurs="0"/>

<xsd:element name="TransmissionNodeIdentifier" type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="DistributionLossFactorCode" type="DistributionLossFactorCode" nillable="true" minOccurs="0"/>

<xsd:element name="ParentEmbeddedNetworkIdentifier" type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="ChildEmbeddedNetworkIdentifier" type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="Address" type="AustralianPartialAddress" nillable="true" minOccurs="0"/>

<xsd:element name="Aggregate" type="YesNo" nillable="true" minOccurs="0"/>

<xsd:element name="Status" type="NMIStatusCode" nillable="true" minOccurs="0"/>

<xsd:element name="FlatOrUnitType" type="AustralianFlatOrUnitType" nillable="true" minOccurs="0"/>

<xsd:element name="FlatOrUnitNumber" type="AustralianFlatOrUnitNumber" nillable="true" minOccurs="0"/>

<xsd:element name="FloorOrLevelType" type="AustralianFloorOrLevelType" nillable="true" minOccurs="0"/>

<xsd:element name="FloorOrLevelNumber" type="AustralianFloorOrLevelNumber" nillable="true" minOccurs="0"/>

<xsd:element name="BuildingOrPropertyName" type="AustralianBuildingOrPropertyName" nillable="true" minOccurs="0"/>

<xsd:element name="BuildingOrPropertyName2" type="AustralianBuildingOrPropertyName" nillable="true" minOccurs="0"/>

<xsd:element name="LocationDescriptor" type="AustralianLocationDescriptor" nillable="true" minOccurs="0"/>

<xsd:element name="HouseNumber" type="AustralianHouseNumber" nillable="true" minOccurs="0"/>

<xsd:element name="HouseNumberSuffix" type="AustralianHouseNumberSuffix" nillable="true" minOccurs="0"/>

<xsd:element name="HouseNumber2" type="AustralianHouseNumber" nillable="true" minOccurs="0"/>

<xsd:element name="HouseNumber2Suffix" type="AustralianHouseNumberSuffix" nillable="true" minOccurs="0"/>

<xsd:element name="LotNumber" type="AustralianLotNumber" nillable="true" minOccurs="0"/>

<xsd:element name="StreetName" type="AustralianStreetName" nillable="true" minOccurs="0"/>

<xsd:element name="StreetType" type="AustralianStreetType" nillable="true" minOccurs="0"/>

<xsd:element name="StreetSuffix" type="AustralianStreetSuffix" nillable="true" minOccurs="0"/>

<xsd:element name="AddressLine1" type="AustralianAddressLine" nillable="true" minOccurs="0"/>

<xsd:element name="AddressLine2" type="AustralianAddressLine" nillable="true" minOccurs="0"/>

<xsd:element name="AddressLine3" type="AustralianAddressLine" nillable="true" minOccurs="0"/>

<xsd:element name="SuburbOrPlaceOrLocality" type="AustralianSuburbOrPlaceOrLocality" nillable="true" minOccurs="0"/>

<xsd:element name="StateOrTerritory" type="AustralianStateOrTerritory" nillable="true" minOccurs="0"/>

<xsd:element name="PostCode" type="AustralianPostCode" nillable="true" minOccurs="0"/>

<xsd:element name="DeliveryPointIdentifier" type="AustralianDeliveryPointIdentifier" nillable="true" minOccurs="0"/>

<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" nillable="true" minOccurs="0"/>

<xsd:element name="FeederClass" type="FeederClass" nillable="true" minOccurs="0"/>

<xsd:element name="CustomerClassificationCode" type="EMSDCustomerClassificationCode" nillable="true" minOccurs="0"/>

<xsd:element name="CustomerThresholdCode" type="EMSDCustomerThresholdCode" nillable="true" minOccurs="0"/>

<xsd:element name="TransmissionNodeIdentifier2" type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>

</xsd:sequence>

</xsd:group>

<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="NMIClassificationCode" type="NMIClassificationCode" nillable="true" minOccurs="0"/>

<xsd:element name="TransmissionNodeIdentifier" type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="DistributionLossFactorCode" type="DistributionLossFactorCode" nillable="true" minOccurs="0"/>

<xsd:element name="ParentEmbeddedNetworkIdentifier" type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="ChildEmbeddedNetworkIdentifier" type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>

<xsd:element name="Address" type="AustralianPartialAddress" nillable="true" minOccurs="0"/>

<xsd:element name="Aggregate" type="YesNo" nillable="true" minOccurs="0"/>

<xsd:element name="Status" type="NMIStatusCode" nillable="true" minOccurs="0"/>

<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" nillable="true" minOccurs="0"/>

<xsd:element name="FeederClass" type="FeederClass" nillable="true" minOccurs="0"/>

<xsd:element name="CustomerClassificationCode" type="EMSDCustomerClassificationCode" nillable="true" minOccurs="0"/>

<xsd:element name="CustomerThresholdCode" type="EMSDCustomerThresholdCode" nillable="true" minOccurs="0"/>

<xsd:element name="ControlEquipments" type="ControlEquipments" nillable="true" minOccurs="0"/>

<xsd:element name="NetworkDevices" type="NetworkDevices" nillable="true" minOccurs="0"/>

<xsd:element name="EnergisationStatus" type="EnergisationStatus" nillable="true" minOccurs="0"/>

<xsd:element name="PrimaryVoltage" type="PrimaryVoltage" nillable="true" minOccurs="0"/>

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

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

<xsd:element name="TransmissionNodeIdentifier2" type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>

</xsd:sequence>

</xsd:complexType>

#### Events\_r39.xsd

Define new simple type “r39”

<xsd:simpleType name="r39">

<xsd:annotation>

<xsd:documentation>Purpose - Release r39 identifier.</xsd:documentation>

</xsd:annotation>

<xsd:restriction base="ReleaseIdentifier">

<xsd:enumeration value="r39"/>

</xsd:restriction>

#### </xsd:simpleType>MDMTReports\_r39.xsd

Update “LastSequenceNumber” to optional

<xsd:group name="MDMTSettlementDateGroup">

<xsd:annotation>

<xsd:documentation>

Purpose - Settlement Date Information Group

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="FromDate" type="xsd:date"/>

<xsd:element name="ToDate" type="xsd:date"/>

<xsd:element name="AsAtDate" type="xsd:dateTime"/>

<xsd:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

</xsd:sequence>

</xsd:group>

<xsd:group name="MDMTSettlementCaseGroup">

<xsd:annotation>

<xsd:documentation>

Purpose - Settlement Case Identifier plus date range Information Group

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="SettlementCase" type="MDMSettlementCaseIdentifier"/>

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

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

<xsd:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

</xsd:sequence>

</xsd:group>

<xsd:complexType name="MDMTMSPLoadAggregationErrorReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for a MSP Load Aggregation Error Report

Report Name - MSPLoadAggregationError

MSATS Report - RM10

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="BaseReportParameters">

<xsd:sequence>

<xsd:element name="SettlementCase" type="MDMSettlementCaseIdentifier"/>

<xsd:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="MDMTPPSReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for a PPS Report

Report Name - PPS

MSATS Reports - RM20

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="BaseReportParameters">

<xsd:sequence>

<xsd:choice>

<xsd:element name="SettlementCase" type="MDMSettlementCaseIdentifier"/>

<xsd:element name="AsAtDate" type="xsd:dateTime"/>

</xsd:choice>

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

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

<xsd:element name="LastSequenceNumber" type="ReplicationSequenceNumber" minOccurs="0"/>

<xsd:element name="ProfileName" type="ProfileName" minOccurs="0"/>

<xsd:element name="MDPVersion" type="xsd:string" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

Addition of new report types

<xsd:complexType name="MDMTHighPriorityMissingDataReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for HighPriorityMissingData

Report Name - HighPriorityMissingData

MSATS Reports - RM37

</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:element name="AsAtDate" type="xsd:dateTime"/>

<xsd:element name="MDP" type="PartyIdentifier" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="MDMTDataStreamMissingDataReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for Data Stream Missing Data Report

Report Name - DataStreamMissingData

MSATS Reports - RM38

</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:element name="AsAtDate" type="xsd:dateTime"/>

<xsd:element name="MDP" type="PartyIdentifier" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="MDMTMismatchDataReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for Mismatch Data Report

Report Name - MismatchData

MSATS Reports - RM39

</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:element name="AsAtDate" type="xsd:dateTime"/>

<xsd:element name="MDP" type="PartyIdentifier" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="UFEFactorValuesByLocalAreaReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for UFE Factor Values By Local Area Report

Report Name - UFEFactorValuesByLocalArea

MSATS Reports - RM43

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="BaseReportParameters">

<xsd:sequence>

<xsd:element name="SettlementCase" type="MDMSettlementCaseIdentifier"/>

<xsd:element name="LocalArea" type="ProfileName" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

<xsd:complexType name="UFEValidationReportParameters">

<xsd:annotation>

<xsd:documentation>

Purpose - Parameter definition for UFE Validation Report

Report Name - UFEValidation

MSATS Reports - RM46

</xsd:documentation>

</xsd:annotation>

<xsd:complexContent>

<xsd:extension base="BaseReportParameters">

<xsd:sequence>

<xsd:element name="SettlementCase" type="MDMSettlementCaseIdentifier"/>

<xsd:element name="LocalArea" type="ProfileName" minOccurs="0"/>

</xsd:sequence>

</xsd:extension>

</xsd:complexContent>

</xsd:complexType>

</xsd:schema>

#### Reports\_r39.xsd

Addition of results block

<xsd:complexType name="ReportResponse">

<xsd:annotation>

<xsd:documentation>

Application - Reports

TransactionExchange - Report Request

TransactionGroup - CATS for CATSReportRequest, MDMT for MDMReportRequest

Priority - Low

Purpose - Return the results of a report

Detail - This is a generic transaction that relies on the details of the exact report format returned being determined by the xsi:type attribute provided by the sender on the ReportParameters and ReportResults elements. At least one Event element must be present in the response to indicate the success or otherwise of the report.

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element name="ReportParameters" type="BaseReportParameters"/>

<xsd:element name="ResultBlock" type="MRBlockParameterType" minOccurs="0"/>

<xsd:element name="ReportResults" type="BaseReportFormat" minOccurs="0"/>

<xsd:element name="Event" type="Event" maxOccurs="unbounded"/>

</xsd:sequence>

<xsd:attribute name="version" type="r39" use="optional" default="r39"/>

</xsd:complexType>

#### NMIDataAccess\_r39.xsd

Addition of new element and update of attribute type

<xsd:complexType name="NMIStandingDataResponse">

<xsd:annotation>

<xsd:documentation>

Application - NMI Data Access

TransactionExchange - NMI Standing Data

TransactionGroup – NMID

Priority – High

Purpose - Provide the results of a request for the current standing data for a particular NMI

Detail - Usage of the NMIStandingData type allows the transaction to carry variable content according to fuel and jurisdictional requirements. At least one Event element must be present in the response to indicate the success or otherwise of the search.

</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element type="NMIStandingData" name="NMIStandingData" minOccurs="0"/>

<xsd:element type="PreviousReadDates" name="PreviousReadDates" minOccurs="0"/>

<xsd:element type="Event" name="Event" maxOccurs="unbounded"/>

</xsd:sequence>

<xsd:attribute type="r39" name="version" default="r39" use="optional"/>

</xsd:complexType>

#### Common\_r39.xsd

Define new complex types

<xsd:complexType name="PreviousReadDate">

<xsd:annotation>

<xsd:documentation>Purpose - Date and quality of a previous NMI reading</xsd:documentation>

</xsd:annotation>

<xsd:sequence>

<xsd:element type="xsd:date" name="ReadDate"/>

<xsd:element name="ReadQuality">

<xsd:simpleType>

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

<xsd:maxLength value="1"/>

</xsd:restriction>

</xsd:simpleType >

</xsd:element>

</xsd:sequence>

</xsd:complexType>

<xsd:complexType name="PreviousReadDates">

<xsd:annotation>

<xsd:documentation>Purpose - List of previous NMI read dates</xsd:documentation>

</xsd:annotation>

<xsd:choice>

<xsd:element type="PreviousReadDate" name="PreviousReadDate" maxOccurs="unbounded"/>

<xsd:element type="Event" name="Event" maxOccurs="1"/>

</xsd:choice>

</xsd:complexType>

# 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.

1. Schema Files

|  |  |
| --- | --- |
| File | Modified |
| Acknowledgements\_r15.xsd |  |
| aseXML\_r39.xsd | \* |
| BAR\_r31.xsd |  |
| BulkDataTool\_r33.xsd |  |
| CATSReports\_r39.xsd | \* |
| CATSTableReplication\_r35.xsd |  |
| ClientInformation\_r36.xsd |  |
| Common\_r39.xsd | \* |
| CustomerDetails\_r38.xsd |  |
| CustomerTransfer\_r29.xsd |  |
| ElectricityEnumerations.xsd |  |
| ElectricityHighSpeedMonitoring\_r2 |  |
| ElectricityMasterStandingData\_r39.xsd | \* |
| ElectricityMMS\_r33.xsd |  |
| Electricity\_r36.xsd |  |
| Enumerations.xsd |  |
| Events\_r39.xsd | \* |
| Faults\_r33.xsd |  |
| GasMarketWholesale\_r34.xsd |  |
| Gas\_r36.xsd |  |
| Header\_r37.xsd |  |
| HighSpeedMonitoring\_r33.xsd |  |
| HubManagement\_r37.xsd |  |
| MarketWholesale\_r20.xsd |  |
| MDMTReports\_r39.xsd | \* |
| MeterDataManagement\_r36.xsd |  |
| NetworkBilling\_r34.xsd |  |
| NMIDataAccess\_r39.xsd | \* |
| NOSAssessment\_r38.xsd |  |
| NOSBooking\_r38.xsd |  |
| NOSCommon\_r38.xsd |  |
| NOSEquipment\_r33.xsd |  |
| OneWayNotification\_r36.xsd |  |
| P2P\_r36.xsd |  |
| Reports\_r39.xsd | \* |
| ServiceOrder\_r36.xsd |  |
| TableReplication\_r33.xsd |  |
| Transactions\_r38.xsd |  |

# Schema Test

## Test

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

### Test Platforms

Supplied samples have been tested using the following parsers:

* MSXML 6.0
* Xerces 2.2.1
* Xerces 2.9.1
* XMLSpy 2014

### Test Cases

* NOTE: Sample filenames have been modified, where they contained a space in the name, as these failed Xerces validation

HMGT\_HubFlowControlAlertNotification\_-\_Hub\_Sending\_StopFile\_Alerts\_to\_Participants\_r39.xml

HMGT\_HubFlowControlReport\_-\_Hub\_responding\_to\_Participant\_Request\_on\_list\_of\_StopFiles\_r37.xml

HMGT\_HubQueueReport\_-\_Hub\_responding\_to\_Participant\_Request\_on\_list\_of\_msgs\_in\_HubQueue\_r39.xml

HMGT\_PayloadExceptionAlert\_-\_Hub\_alerting\_Participants\_on\_Response\_payload\_validation\_failure\_r39.xml

NEMB2B\_CustomerDetailsNotification\_SiteVacant\_r39.xml

NEMB2B\_CustomerDetailsNotification\_Update\_BusinessName\_r39.xml

NEMB2B\_CustomerDetailsNotification\_Update\_r39.xml

NEMB2B\_CustomerDetailsNotification\_Update\_Response\_r39.xml

NEMB2B\_CustomerDetailsReconciliation\_r39.xml

NEMB2B\_CustomerDetailsRequest\_Other\_r39.xml

NEMB2B\_CustomerDetailsRequest\_r39.xml

NEMB2B\_DisputeNotification\_vic\_a\_r39.xml

NEMB2B\_DisputeResponse\_vic\_a\_r39.xml

NEMB2B\_HSMMonitorData\_Request\_r39.xml

NEMB2B\_hsm\_capability.all.hsmdm\_r39.xml

NEMB2B\_hsm\_capability.normal.hsmdm\_gpupp\_r39.xml

NEMB2B\_hsm\_capability.selective.hsmdm\_r39.xml

NEMB2B\_hsm\_data.continuous.hsmdl\_r39.xml

NEMB2B\_hsm\_data.continuous.normal.hsmdl\_gpupp\_r39.xml

NEMB2B\_hsm\_data.triggered.hsmdl\_r39.xml

NEMB2B\_hsm\_data.triggered.normal.hsmdl\_gpupp\_r39.xml

NEMB2B\_hsm\_inventory.all.hsmdh\_r39.xml

NEMB2B\_hsm\_inventory.normal.hsmdh\_gpupp\_r39.xml

NEMB2B\_hsm\_inventory.selective.hsmdh\_r39.xml

NEMB2B\_hsm\_monitors\_statusall\_request\_r39.xml

NEMB2B\_hsm\_monitors\_statusrequest\_nil\_r39.xml

NEMB2B\_hsm\_monitors\_statusrequest\_r39.xml

NEMB2B\_hsm\_rollcall.all.hsmdh\_hsm\_r39.xml

NEMB2B\_hsm\_rollcall.normal.hsmdh\_gpupp\_r39.xml

NEMB2B\_hsm\_rollcall.selective.hsmdh\_hsm\_r39.xml

NEMB2B\_hsm\_triggers.all.hsmdm\_hsm\_r39.xml

NEMB2B\_hsm\_triggers.normal.hsmdm\_gpupp\_r39.xml

NEMB2B\_hsm\_triggers.selective.hsmdm\_hsm\_r39.xml

NEMB2B\_LifeSupportNotification\_Deregistered\_r39.xml

NEMB2B\_LifeSupportNotification\_None\_r39.xml

NEMB2B\_LifeSupportNotification\_Reconciliation\_r39.xml

NEMB2B\_LifeSupportNotification\_Update\_r39.xml

NEMB2B\_LifeSupportRequest\_Other\_r39.xml

NEMB2B\_LifeSupportRequest\_r39.xml

NEMB2B\_MeterDataMissingNotification\_r39.xml

NEMB2B\_MeterDataNotificationConsumption\_r39.xml

NEMB2B\_MeterDataNotification\_Consumption\_r39.xml

NEMB2B\_MeterDataNotification\_Interval\_r39.xml

NEMB2B\_MeterDataVerifyRequest\_basic\_HighReading\_r39.xml

NEMB2B\_MeterDataVerifyRequest\_Interval\_NMIConfig\_r39.xml

NEMB2B\_MeterFaultAndIssueNotification\_r39.xml

NEMB2B\_NoticeOfMeteringWorks\_r39.xml

NEMB2B\_NotifiedParty\_Ack\_r39.xml

NEMB2B\_NotifiedParty\_Rejection\_r39.xml

NEMB2B\_NotifiedParty\_Txn\_r39.xml

NEMB2B\_PlannedInterruptionNotification\_r39.xml

NEMB2B\_PTPDataExchange\_r39.xml

NEMB2B\_RemoteServiceRequest\_r39.xml

NEMB2B\_RemoteServiceResponse\_nonasexmlpayload\_r39.xml

NEMB2B\_RemoteServiceResponse\_r39.xml

NEMB2B\_ServiceOrderAppointmentNotification\_r39.xml

NEMB2B\_ServiceOrderRequest.Adds\_n\_Alts\_r39.xml

NEMB2B\_ServiceOrderRequest.Alloc\_NMI\_r39.xml

NEMB2B\_ServiceOrderRequest.DeEnergise\_r39.xml

NEMB2B\_ServiceOrderRequest.DeEnergise\_Simple\_r39.xml

NEMB2B\_ServiceOrderRequest.MeterInvestigation\_r39.xml

NEMB2B\_ServiceOrderRequest.MeterReconfig\_r39.xml

NEMB2B\_ServiceOrderRequest.Miscellaneous\_r39.xml

NEMB2B\_ServiceOrderRequest.ReEnergise\_r39.xml

NEMB2B\_ServiceOrderRequest.ReEnergise\_Simple\_r39.xml

NEMB2B\_ServiceOrderRequest.SpecialRead\_r39.xml

NEMB2B\_ServiceOrderRequest.SupplyAbolishment\_r39.xml

NEMB2B\_ServiceOrderRequestNewConnection\_r39.xml

NEMB2B\_ServiceOrderRequestNewConnection\_Simple\_r39.xml

NEMB2B\_ServiceOrderRequest\_Cancel\_r39.xml

NEMB2B\_ServiceOrderRequest\_Re-energisation\_sc1\_cancel\_r39.xml

NEMB2B\_ServiceOrderRequest\_Re-energisation\_sc1\_r39.xml

NEMB2B\_ServiceOrderResponse\_C\_r39.xml

NEMB2B\_ServiceOrderResponse\_N\_r39.xml

NEMB2B\_ServiceOrderResponse\_O\_r39.xml

NEMB2B\_ServiceOrderResponse\_Re-energisation\_sc1\_cancel\_r39.xml

NEMB2B\_ServiceOrderResponse\_Simple\_C\_r39.xml

NEMB2B\_SiteAccessDetails\_r39.xml

NEMB2B\_SiteAccessRequest\_r39.xml

NEMB2B\_SiteAddressDetails\_r39.xml

NEMB2B\_TransAck\_Rejection\_r39.xml

NEMMSATS\_C1\_METER\_REGISTER\_r39.xml

NEMMSATS\_catsm\_energyapbatch\_2501\_CustClass\_r39.xml

NEMMSATS\_catsm\_energyap\_5054\_CustClass\_r39.xml

NEMMSATS\_catsm\_generic\_C3\_request\_r39.xml

NEMMSATS\_catsm\_generic\_C4\_request\_r39.xml

NEMMSATS\_catsm\_generic\_noParameters\_response\_r39.xml

NEMMSATS\_catsm\_generic\_test\_response\_r39.xml

NEMMSATS\_catsm\_NMIStandingDataResponse-1\_r39.xml

NEMMSATS\_catsm\_NMIStandingDataResponse-2\_r39.xml

NEMMSATS\_catsm\_NMIStandingDataResponse-3\_r39.xml

NEMMSATS\_catsm\_NMIStandingDataResponse-4\_r39.xml

NEMMSATS\_catsm\_NMIStandingDataResponse\_r39.xml

NEMMSATS\_catsm\_poolnsw\_CR2501\_r39.xml

NEMMSATS\_catsm\_ReplicationNotificationAddress\_r39.xml

NEMMSATS\_catsm\_wbaympa\_C1\_NMI\_DATA\_CustClass\_r39.xml

NEMMSATS\_CATSNotification\_r39.xml

NEMMSATS\_CATSSDRTrafficLightReportResponse\_r39.xml

NEMMSATS\_CATSStandingDataQualityReportResponse\_r39.xml

NEMMSATS\_ChangeRequest2501\_r39.xml

NEMMSATS\_ChangeRequestAllFieldsMeterConfig\_r39.xml

NEMMSATS\_ChangeRequestAllFields\_r39.xml

NEMMSATS\_ChangeRequestMsgAck\_r39.xml

NEMMSATS\_ChangeRequestMsgTnsAck\_r39.xml

NEMMSATS\_ChangeRequestNotification\_seq03\_r39.xml

NEMMSATS\_ChangeRequestResponseBad\_seq02\_r39.xml

NEMMSATS\_ChangeRequestResponseGood\_seq002\_r39.xml

NEMMSATS\_ChangeRequestTnsAckErr\_r39.xml

NEMMSATS\_ChangeRequestTnsAck\_r39.xml

NEMMSATS\_ChangeRequest\_r39.xml

NEMMSATS\_ChangeRequest\_seq01\_r39.xml

NEMMSATS\_CustomerDetailsNotification\_MovementType\_r39.xml

NEMMSATS\_CustomerDetailsRequest\_RequestReason\_r39.xml

NEMMSATS\_DataRequestReplicationNotification\_r39.xml

NEMMSATS\_DataRequest\_r39.xml

NEMMSATS\_MDMReportRM11\_2\_r39.xml

NEMMSATS\_MDMReportRM11\_r39.xml

NEMMSATS\_MDMReportRM16\_2\_r39.xml

NEMMSATS\_MDMReportRM16\_r39.xml

NEMMSATS\_MDMReportRM20\_r39.xml

NEMMSATS\_MDMReportRM21\_r39.xml

NEMMSATS\_MDMReportRM26\_r39.xml

NEMMSATS\_MDMTMeterDataDeliveryReportResponse\_r39.xml

NEMMSATS\_MeterDataNotificationConsumptionMulti\_r39.xml

NEMMSATS\_MeterDataNotificationConsumption\_r39.xml

NEMMSATS\_MeterDataNotificationInterval\_r39.xml

NEMMSATS\_MeterDataNotificationProfile\_r39.xml

NEMMSATS\_MeterDataResponseConsumption\_r39.xml

NEMMSATS\_MsatsLimits\_r39.xml

NEMMSATS\_MsatsLimits\_ReportRequest\_r39.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_group\_r39.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_nogroup\_1\_r39.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_nogroup\_r39.xml

NEMMSATS\_MsatsLimits\_ReportResponse\_r39.xml

NEMMSATS\_NMIDiscoveryRequestDPID\_r39.xml

NEMMSATS\_NMIDiscoveryRequestMeter\_2\_r39.xml

NEMMSATS\_NMIDiscoveryRequestMeter\_r39.xml

NEMMSATS\_NMIDiscoveryRequestType2\_r39.xml

NEMMSATS\_NMIDiscoveryRequestType3\_r39.xml

NEMMSATS\_NMIDiscoveryResponseErr\_r39.xml

NEMMSATS\_NMIDiscoveryResponse\_2\_r39.xml

NEMMSATS\_NMIDiscoveryResponse\_ITD\_r39.xml

NEMMSATS\_NMIDiscoveryResponse\_MCR\_TRM\_r39.xml

NEMMSATS\_NMIDiscoveryResponse\_NNS\_OTR\_SAB\_r39.xml

NEMMSATS\_NMIDiscoveryResponse\_r39.xml

NEMMSATS\_NMIDiscoveryResponse\_TRI\_r39.xml

NEMMSATS\_NMIStandingDataRequest\_r39.xml

NEMMSATS\_NMIStandingDataResponseMeterConfig\_r39.xml

NEMMSATS\_NMIStandingDataResponse\_2\_r39.xml

NEMMSATS\_NMIStandingDataResponse\_r39.xml

NEMMSATS\_ObjectionNotification\_seq06\_r39.xml

NEMMSATS\_Objection\_seq04\_r39.xml

NEMMSATS\_ParticipantSystemStatus\_ReportRequest\_01\_r39.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_01\_r39.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_02\_r39.xml

NEMMSATS\_ParticipantSystemStatus\_ReportResponse\_03\_r39.xml

NEMMSATS\_ReplicationNotificationAddress\_r39.xml

NEMMSATS\_ReplicationNotificationCATSChangeResponse\_r39.xml

NEMMSATS\_ReplicationNotificationCATSStreamlinedCRCodes\_2\_r39.xml

NEMMSATS\_ReplicationNotificationCATSStreamlinedCRCodes\_r39.xml

NEMMSATS\_ReplicationNotificationEmbeddedNetworkIdentifiers\_r39.xml

NEMMSATS\_ReplicationNotificationMeterConfig\_r39.xml

NEMMSATS\_ReplicationNotificationMeter\_r39.xml

NEMMSATS\_ReplicationNotificationNetworkTariffCodes\_r39.xml

NEMMSATS\_ReplicationNotificationNMIRanges\_r39.xml

NEMMSATS\_ReplicationNotificationStandingDataAccessRules\_r39.xml

NEMMSATS\_ReportRequestChangeManagement\_r39.xml

NEMMSATS\_ReportRequestMaster\_r39.xml

NEMMSATS\_ReportRequestMeterConfig\_r39.xml

NEMMSATS\_ReportRequestNewParticipantAccess\_r39.xml

NEMMSATS\_ReportRequestNMIAudit\_r39.xml

NEMMSATS\_ReportRequestNMIDiscovery\_r39.xml

NEMMSATS\_ReportResponseChangeManagement\_r39.xml

NEMMSATS\_ReportResponseHighPriorityMissingData\_r39.xml

NEMMSATS\_ReportResponseNMIAudit\_r39.xml

NEMMSATS\_ReportResponseNMIMasterMeterConfig\_r39.xml

NEMMSATS\_ReportResponseStatistics\_r39.xml

NEMMSATS\_SnapshotReportMasterDataStreams\_r39.xml

NEMMSATS\_WithdrawChangeRequest\_seq09\_r39.xml

NEMMSATS\_WithdrawObjectionNotification\_seq08\_r39.xml

NEMMSATS\_WithdrawObjection\_seq07\_r39.xml

NEMMSATS\_WithdrawRequestNotification\_seq10\_r39.xml

NEMMSATS\_\_NMIStandingDataRequest\_r39.xml

NEMWholesale\_emmsh\_63bigbigbig\_r39.xml

NEMWholesale\_emmsh\_r39.xml

NEMWholesale\_MMSIntermittentAvailability\_01\_r39.xml

NEMWholesale\_MMSIntermittentAvailability\_02\_r39.xml

NEMWholesale\_MMSIntermittentAvailability\_03\_r39.xml

NEMWholesale\_MMSIntermittentAvailability\_big\_r39.xml

NEMWholesale\_MMSWindAvailabilityRequest\_TooBig\_r39.xml

NEMWholesale\_NOSAck\_r39.xml

NEMWholesale\_NOSAssessmentInsertStatusInfoResponse\_r39.xml

NEMWholesale\_NOSAssessmentInsMultiOutageInfoResponse\_r39.xml

NEMWholesale\_NOSAssessmentUpdateIndoubtInfoResponse\_r39.xml

NEMWholesale\_NOSAssessmentUpdateNoteInfoResponse\_r39.xml

NEMWholesale\_NOSAssessmentWithdrawInfoResponse\_r39.xml

NEMWholesale\_NOSBookingDeleteOutageFromRepeating\_r39.xml

NEMWholesale\_NOSBookingInfoRequest\_r39.xml

NEMWholesale\_NOSBookingInfoResponse7276\_r39.xml

NEMWholesale\_NOSBookingInfoResponse\_r39.xml

NEMWholesale\_NOSBookingOutageActutalUpdate\_r39.xml

NEMWholesale\_NOSBookingResponse\_r39.xml

NEMWholesale\_NOSBookingWithAttachment\_r39.xml

NEMWholesale\_NOSBooking\_r38\_2.xml

NEMWholesale\_NOSBooking\_r38\_3.xml

NEMWholesale\_NOSBooking\_r38\_9.xml

NEMWholesale\_NOSBooking\_r39.xml

NEMWholesale\_NOSEquipmentInfoRequest\_r39.xml

NEMWholesale\_NOSEquipmentInfoResponse\_r39.xml

NEMWholesale\_NOSEquipmentResponse\_r39.xml

NEMWholesale\_NOSEquipmentSubmitType\_r39.xml

NEMWholesale\_NOSNAck\_r39.xml

NEMWholesale\_NOSValidCertainty\_r39.xml

NEMWholesale\_NOSValidResubmit\_r39.xml

NEMWholesale\_NOSWithDrawBooking\_r39.xml

NEMWholesale\_outghtransgpd\_valid\_r39.xml

NEMWholesale\_outghtransgpd\_valid\_resubmit\_r39.xml

NSWGAS\_AccountCreationNotification\_JGN\_r39.xml

NSWGAS\_AccountCreationNotification\_Mandatoryr39.xml

NSWGAS\_AccountCreationNotification\_Multmeter\_Mandatoryr39.xml

NSWGAS\_AccountCreationNotification\_WWT\_r39.xml

NSWGAS\_AmendSiteAccessDetails\_JGN\_r39.xml

NSWGAS\_AmendSiteAccessDetails\_WWT\_r39.xml

NSWGAS\_CATSChangeRequest\_ErrorCorrection\_r39.xml

NSWGAS\_CATSChangeRequest\_MoveIn\_r39.xml

NSWGAS\_CATSChangeRequest\_r39.xml

NSWGAS\_CATSChangeRequest\_txn214\_r39.xml

NSWGAS\_CATSDataRequest\_2\_r39.xml

NSWGAS\_CATSDataRequest\_r39.xml

NSWGAS\_CATSNotification-COM\_r39.xml

NSWGAS\_CATSNotification-COM\_to\_DB\_error\_correction\_WWT\_r39.xml

NSWGAS\_CATSNotification-COM\_to\_DB\_WWT\_r39.xml

NSWGAS\_CATSNotification-PEN\_r39.xml

NSWGAS\_CATSNotification\_txn219\_r39.xml

NSWGAS\_CATSObjectionRequest\_-DB\_r39.xml

NSWGAS\_CATSObjectionRequest\_r39.xml

NSWGAS\_CustomerDetailsNotification\_r39.xml

NSWGAS\_ERFTTotalGasInjectedNotification\_r39.xml

NSWGAS\_ERFTTotalGasInjectedNotification\_WWT\_r39.xml

NSWGAS\_FieldWorkNotification\_r39.xml

NSWGAS\_IAIT\_ImbalanceTradeRequest\_r39.xml

NSWGAS\_IAIT\_ParticipantImbalanceAmountRequest\_r39.xml

NSWGAS\_LinepackAndUnaccountedForGasData\_r39.xml

NSWGAS\_LinepackAndUnaccountedForGasData\_WWT\_r39.xml

NSWGAS\_MarkeReport\_T2130HeatingValueDailyRpt\_r39.xml

NSWGAS\_MarketReport\_-\_BasicConsumptionRpt\_int874\_r39.xml

NSWGAS\_MarketReport\_-\_ChangeOfStandingData\_int803\_r39.xml

NSWGAS\_MarketReport\_-\_CustomerChurnRpt\_int886\_r39.xml

NSWGAS\_MarketReport\_-\_DailyNSLRpt\_int871\_r39.xml

NSWGAS\_MarketReport\_-\_EstimationResultsToNWORpt\_r39.xml

NSWGAS\_MarketReport\_-\_EstimationResultsToUserRpt\_int804\_r39.xml

NSWGAS\_MarketReport\_-\_MeterReadingToUserNonSTTMRpt\_int854a\_r39.xml

NSWGAS\_MarketReport\_-\_MeterReadingToUserRpt\_int854\_r39.xml

NSWGAS\_MarketReport\_-\_ReconciliationResultsRpt\_int802\_r39.xml

NSWGAS\_MarketReport\_-\_RevisedEstimationResultsToNWORpt\_r39.xml

NSWGAS\_MarketReport\_-\_RevisedEstimationResultsToUserRpt\_int805\_r39.xml

NSWGAS\_MarketReport\_-\_TotalGasInjectedRpt\_int811\_r39.xml

NSWGAS\_MarketReport\_ApportionmentPercentageRpt\_int809\_r39.xml

NSWGAS\_MarketReport\_DailyToUserRpt\_int812\_r39.xml

NSWGAS\_MarketReport\_DPRExtractRpt\_r39.xml

NSWGAS\_MarketReport\_EffectiveDegreeDayRpt\_int891\_r39.xml

NSWGAS\_MarketReport\_ERFTReconciliationResultsRpt\_r39.xml

NSWGAS\_MarketReport\_ExpiredImbalanceTradeRpt\_int817\_r39.xml

NSWGAS\_MarketReport\_MatchedImbalanceTradeRpt\_int816\_r39.xml

NSWGAS\_MarketReport\_MonthlyToUserRpt\_int814\_r39.xml

NSWGAS\_MarketReport\_ParticipantImbalanceAmountRpt\_int818\_r39.xml

NSWGAS\_MarketReport\_RevisedImbalanceRpt\_int815\_r39.xml

NSWGAS\_MarketReport\_T2270TotalCLPRpt\_int828\_r39.xml

NSWGAS\_MarketReport\_T2275TotalCLPRpt\_r39.xml

NSWGAS\_MarketReport\_T298NewStreetListingRpt\_r39.xml

NSWGAS\_MarketReport\_T299CompleteMIRNListingRpt\_r39.xml

NSWGAS\_MarketReport\_WeeklyToUserRpt\_int813\_r39.xml

NSWGAS\_MeterDataNotification\_r39.xml

NSWGAS\_MeterDataNotification\_to\_AEMO\_Basic\_meters\_r39.xml

NSWGAS\_MeterDataNotification\_to\_AEMO\_Interval\_meters\_r39.xml

NSWGAS\_MeterDataResponse\_r39.xml

NSWGAS\_MeterDataVerifyRequest\_JGN\_r39.xml

NSWGAS\_MeterDataVerifyRequest\_WWT\_r39.xml

NSWGAS\_MeterDataVerifyResponse\_JGN\_r39.xml

NSWGAS\_MeterDataVerifyResponse\_WWT\_r39.xml

NSWGAS\_MeterFix\_JGN\_r39.xml

NSWGAS\_MeterFix\_WWT\_r39.xml

NSWGAS\_MeterNotificationMIRNStatusUpdate\_r39.xml

NSWGAS\_MeterReadInputNotification\_(MMSD)\_r39.xml

NSWGAS\_MeterReadInputNotification\_r39.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffA\_r39.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffB\_r39.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffD\_WWT\_r39.xml

NSWGAS\_NetworkDUoSBillingNotification\_TariffV\_WWT\_r39.xml

NSWGAS\_NMIDiscoveryResponse\_JGN\_r39.xml

NSWGAS\_NMIDiscoveryResponse\_WWT\_r39.xml

NSWGAS\_NMIStandingDataRequest\_-\_JGN\_r39.xml

NSWGAS\_NMIStandingDataResponse\_JGN\_r39.xml

NSWGAS\_NMIStandingDataResponse\_WWT\_r39.xml

NSWGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_BaseLoad\_r39.xml

NSWGAS\_ServiceOrderRequest\_MFX\_example\_-\_JGN\_r39.xml

NSWGAS\_ServiceOrderRequest\_MFX\_example\_-\_WWT\_r39.xml

NSWGAS\_ServiceOrderResponse\_completion\_WWT\_r39.xml

NSWGAS\_ServiceOrderResponse\_initial\_WWT\_r39.xml

NSWGAS\_ServiceOrderResponse\_NoAcess(special\_read)\_r39.xml

NSWGAS\_TransAck\_Accept\_r39.xml

SAWAGAS\_GasMeterNotification\_MeterFix\_SAGAS\_r39.xml

SAWAGAS\_GasMeterNotification\_MeterFix\_WAGAS\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_BaseLoad\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_DCN\_HeatingRate\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_ECNET\_CU\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_SAGAS\_TFR\_CU\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DCN\_GasZone\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DCN\_MeterType\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_DIS\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_ECNET\_CU\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_ECNET\_NO\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_NDP\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_PR\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_REC\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_SU\_CU\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_TFR\_CU\_r39.xml

SAWAGAS\_NMIStandingDataUpdateNotification\_WAGAS\_TFR\_NO\_r39.xml

VICGAS\_AccCreationNotification\_r39.xml

VICGAS\_AmendMeterRouteDetails(RouteChange)\_r39.xml

VICGAS\_AmendMeterRouteDetails(SiteAccess)\_r39.xml

VICGAS\_AmendMeterRouteDetails(SiteAddress)\_r39.xml

VICGAS\_CATSChangeAlertToNFRO\_r39.xml

VICGAS\_CATSChangeAlertToVENCorp\_r39.xml

VICGAS\_CATSChangeRequestAlternateRetro\_r39.xml

VICGAS\_CATSChangeRequestAlternate\_r39.xml

VICGAS\_CATSChangeRequestRetro\_r39.xml

VICGAS\_CATSChangeRequestStandingDataResponseRetro\_r39.xml

VICGAS\_CATSChangeRequestStandingDataResponse\_r39.xml

VICGAS\_CATSChangeRequest\_r39.xml

VICGAS\_CATSChangeResponse\_r39.xml

VICGAS\_CATSChangeWithdrawal\_r39.xml

VICGAS\_CATSDataRequest\_r39.xml

VICGAS\_CATSNoticeOfReadFailure\_r39.xml

VICGAS\_CATSNotificationCDB\_r39.xml

VICGAS\_CATSNotificationCFRO\_r39.xml

VICGAS\_CATSNotificationCompletedCDB\_r39.xml

VICGAS\_CATSNotificationPendingCFRO\_r39.xml

VICGAS\_CATSNotificationWithdrawalCDB\_r39.xml

VICGAS\_CATSNotificationWithdrawalCFRO\_r39.xml

VICGAS\_CATSNotification\_01\_r39.xml

VICGAS\_CATSNotification\_02\_r39.xml

VICGAS\_CATSObjectionNotification\_r39.xml

VICGAS\_CATSObjectionRequest\_r39.xml

VICGAS\_CATSObjectionResponse\_r39.xml

VICGAS\_CATSObjectionWithdrawal\_r39.xml

VICGAS\_CurrentRetailerConfirmationRequest\_r39.xml

VICGAS\_CurrentRetailerConfirmationResponse\_r39.xml

VICGAS\_FieldWorkNotification\_r39.xml

VICGAS\_GasInformationRequestData\_r39.xml

VICGAS\_GasRetrieveRequestData\_AMDQId\_r39.xml

VICGAS\_GasRetrieveRequestData\_AMDQNominationCGD\_r39.xml

VICGAS\_GasRetrieveRequestData\_AMDQSearch\_r39.xml

VICGAS\_GasRetrieveRequestData\_r39.xml

VICGAS\_GasRetrieveResponseData\_AMDQNominationCGD\_2\_r39.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_NOIHNS\_r39.xml

VICGAS\_GasRetrieveResponseData\_InjectionNomination\_r39.xml

VICGAS\_GasRetrieveResponseData\_r39.xml

VICGAS\_GasSearchRequestData\_r39.xml

VICGAS\_GasSearchResponseData\_AmdqNomination\_r39.xml

VICGAS\_GasSearchResponseData\_r39.xml

VICGAS\_GasSearchResponseData\_StandingWithdrawn\_r39.xml

VICGAS\_GasSubmitRequestData\_AgencyNominationConfirmation\_r39.xml

VICGAS\_GasSubmitRequestData\_AmdqNomination\_r39.xml

VICGAS\_GasSubmitRequestData\_IHN\_NOIHNS\_r39.xml

VICGAS\_GasSubmitRequestData\_IHN\_r39.xml

VICGAS\_GasSubmitRequestData\_r39.xml

VICGAS\_GasSubmitResponseData\_AmdqNomination\_2\_r39.xml

VICGAS\_GasSubmitResponseData\_r39.xml

VICGAS\_MeterDataHistoryRequest\_r39.xml

VICGAS\_MeterDataHistoryResponse\_r39.xml

VICGAS\_MeterDataMissingNotification\_r39.xml

VICGAS\_MeterDataNotification\_r39.xml

VICGAS\_MeterDataResponse\_r39.xml

VICGAS\_MeterDataVerifyRequest\_r39.xml

VICGAS\_MeterDataVerifyResponse\_r39.xml

VICGAS\_MeteredSupplyPointsCount\_r39.xml

VICGAS\_MeterNotificationMeterFix\_r39.xml

VICGAS\_MeterNotificationMIRNStatusUpdate\_r39.xml

VICGAS\_MeterReadInputNotification\_r39.xml

VICGAS\_NetworkDUoSBillingNotification\_DisputeRes\_r39.xml

VICGAS\_NetworkDUoSBillingNotification\_Dispute\_r39.xml

VICGAS\_NetworkDUoSBillingNotification\_PaymentAdvice\_r39.xml

VICGAS\_NetworkDUoSBillingNotification\_r39.xml

VICGAS\_NMIDiscoveryResponseGas\_r39.xml

VICGAS\_NMIStandingDataResponseGas\_r39.xml

VICGAS\_NMIStandingDataUpdateNotificationResponse\_r39.xml

VICGAS\_NMIStandingDataUpdateNotification\_r39.xml

VICGAS\_SearchResponse\_Data\_IHN\_NOIHN\_r39.xml

VICGAS\_SearchResponse\_Data\_IHN\_r39.xml

VICGAS\_ServiceOrderRequest(MeterFix)\_01\_r39.xml

VICGAS\_ServiceOrderRequest(MeterFix)\_02\_r39.xml

VICGAS\_ServiceOrderRequest(NewConnection)\_r39.xml

VICGAS\_ServiceOrderResponse(Completion)\_r39.xml

VICGAS\_ServiceOrderResponse(Initial)\_r39.xml

VICGAS\_ServiceOrderResponse(NoAccess)\_r39.xml

VICGAS\_ServiceOrderResponse(StandingData)\_r39.xml

VICGAS\_SpecialReadRequest\_r39.xml

VICGAS\_SpecialReadResponse(NoAccess)\_r39.xml

VICGAS\_SpecialReadResponse\_r39.xml

VICGAS\_SubmitResponseData\_IHN\_NOIHN\_r39.xml

VICGAS\_SubmitResponseData\_IHN\_r39.xml

VICGAS\_TransAck\_r39.xml

VICGAS\_TxnNAck\_r39.xml

### Test Process

1. Obtain a copy of the 5 existing regression test suite XML files
   * nem\_samples\_r38.zip
   * nem\_wholesale\_samples\_r38.zip
   * nemb2b\_samples\_r38.zip
   * sawa\_samples\_r38.zip
   * vicgas\_samples\_r38.zip
2. Obtain a copy of the new R39 test suite XML files
3. Unzip all test XML files a folder
4. Replace “xmlns:ase="urn:aseXML:r38” with “xmlns:ase="urn:aseXML:r39”
5. Replace “xsi:schemaLocation="urn:aseXML:r38 <http://www.nemmco.com.au/aseXML/schemas/r38/aseXMLr38.xsd>” with “xsi:schemaLocation="urn:aseXML:r39 S:/aseXML\_r39.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 using the 4 supported XML Toolkits.
8. Check output log for any successful parse results, as well as expected or unexpected errors.

### Test Results

All OK on all Test Platforms, see section 6.2.1

* All valid test files passed with no parse error.

### Character Classification

Pattern restriction is enforced by regular expressions in some places in aseXML schema. That makes knowing the precise set of classification of characters important. It is particularly important in the testing process. In some quick tests using simple Pattern class in JAVA – not fully fledged JAVA parsers – some differences vis-à-vis XML Spy were reported. These tests were performed to validate the data stored in database against aseXML type definitions. Some characters that were treated differently between JAVA Pattern class and XML Spy were $ + |. XML Spy accepted them as punctuation characters but JAVA Pattern class rejected. Note, these three characters are only a few examples of difference, not an exhaustive list. As explained below, further investigations revealed that XML Spy is correct as per the XML standard.

The XML standards depend upon Unicode specifications for the purpose of this classification. The complete list of classification of Unicode characters in various classes can be found at <http://www.unicode.org/>.

To download the classification for any particular version of classification, start from directory listing at <http://www.unicode.org/Public> and traverse down the tree of the concerned version to download the zip (usually named ucd.zip) which contains all the documents for that version. The zip for version 6.2.0 resides at <http://www.unicode.org/Public/6.2.0/ucd/>. The document in this zip, usually named UnicodeData.txt, contains entire classification of all Unicode characters, having a line per Unicode character, with semi-colon delimited fields in each line. Explanation of fields can be found in the documentation in the zip (UCD.html). To view this UnicodeData.txt document conveniently, start Excel and open the document. While opening the document Excel will ask for information about the file contents. In response specify the document to be semicolon delimited with each column of the document being text. The column C of the Excel spreadsheet specifies the character classification. Note, while opening the file in Excel if each column is not specified to be text then Excel may format some information incorrectly.

The classification of the extended ASCII characters for version 6.2.0 of Unicode is provided here in an Excel spreadsheet :



The classifications starting with L signify letters, starting with N signify digits, starting with P signify punctuations, starting with S signify symbols and those starting with C signify control characters. Note, the spread sheet does not contain all the fields (columns) from the UnicodeData.txt file.

# ASWG Endorsement

With a quorum established the ASWG voted to endorse schema r39, with the included aseXML Change Requests. The voting results are forwarded to AEMO for approval. When 75% of those ASWG members vote to endorse a schema it 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: 29/05/2020

|  |  |  |
| --- | --- | --- |
| **Option** | **# Votes** | **% Vote** |
| For | 4 | 100% |
| Against | 0 | 0% |
| Abstained | 0 | 0% |
| Total Members Present | 4 | 100% |

# 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 |  | Jerome DeClerk |