Schema Release

AseXML Schema Working Group

Release Enumerations V6A

Draft Release Date: 2/9/2015

Final Release Date: 4/9/2015

Document History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Authors** | **Comments** |
| 1.0 | 4/09/2015 | Andrew Screen | Initial Document |
|  |  |  |  |

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# Introduction

The change to remove duplicates address types in the enumerations file occurred in version 6 of the enumeration.xsd file. It was expected that this change would be introduced into industry before the implementation of NSW B2B (NARGH). Due to the postponement of that release NSW B2B needs a version of the enumerations file that has the duplicates included as well as the new market report enumerations included for NSWB2B. This new version will be 6A.

Since this is an update of the non-versioned enumerations file it will not result in a new version of the schema. The changes to the enumerations file have been base lined against version 6 of the enumerations.xsd file. The release of this non versioned file 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 the release of this version of the enumerations file:

|  |  |
| --- | --- |
| **CR#** | **Description** |
| 58 | This Change Proposal deals with the re-inclusion of duplicate address based enumeration which were removed in version 6. |
|  |  |

These Change Requests are available from the ASWG workgroup site:

[View aseXML\_Schema\_Change\_Request\_58\_...](https://link.aemo.com.au/aswg/Shared%20Documents/aseXML%20Schemas/Schema%20Change%20Requests/Drafts/aseXML_Schema_Change_Request_58_v1.0.zip)

And the enumerations file (version 6A)

[View Enumerations\_6A.0.zip](https://link.aemo.com.au/aswg/Shared%20Documents/aseXML%20Schemas/Draft%20Schemas/Enumerations_6A.0.zip)

for review by all impacted parties. Note to access via the ASWG website requires access to AEMO Link site. A copy of the CR and enumerations file is embedded here:



# 

# 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 sustitution
* Schema files affected – is a list of schema files that have been changed in some way for this schema.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Modified types** | **Derived types** | **Versioned types affected** | **Transactions potentially affected** | **Schema files affected** |
| AustralianStreetType  AustralianFlatOrUnitType |  |  |  | enumeration.xsd (version6) |

# File Change Summary

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

## aseXML

* N/A

## Changes

|  |  |  |  |
| --- | --- | --- | --- |
| **Chg #** | **Item #** | **Description of change** | **Filename** |
| 1 | 1 | AustralianStreetType  inclusion of the following enumerations  ARTY  AV  BWK  BR  CSWY  CNTN  CR  CSAC  CUTT  DE  DVWY  FORK  GLDE  GWY  HTH  HIRD  ID  MNR  MTWY  PWY  PWAY  ROFW  RTN  SVWY  THFR  TWAY  VIAD  VLLA  WWAY  WD | Enumerations.xsd |
| 2 | AustralianFlatOrUnitType. Inclusion of the following enumerations  DUPL  FCTY  FLAT  MBTH  OFFC  ROOM  STLL  UNIT  WHSE | Enumerations.xsd |
| 3 | Addition of simple type MarketReportNamesType |
| 4 |  |  |
| 5 |  |

Table 4‑1 Change Log

### Schema change description

#### *enumerations.xsd*

Description of the changes and normally a diagram showing the elements in context.

Detailed changes to the file are given below:

* included

additions to re-establish duplicate Australian street types

-- ARTY- ARTERY

-- AV - AVENUE

-- BWK - BOARDWALK

-- BR - BRACE

-- CSWY - CAUSEWAY

-- CNTN - CONNECTION

-- CR- CRESCENT

-- CSAC-CUL-DE-SAC

-- CUTT - CUTTING

-- DE - DEVIATION

-- DVWY - DRIVEWAY

-- FORK - FORK

-- GLDE - GLADE

-- GWY - GATEWAY

-- HTH - HEATH

-- HIRD - HIGHROAD

-- ID - ISLAND

-- MNR - MANOR

-- MTWY - MOTORWAY

-- PWY - PARKWAY

-- PWAY - PATHWAY

-- ROFW - RIGHT OF WAY

-- RTN - RETURN

-- SVWY - SERVICEWAY

-- THFR - THOROUGHFARE

-- TWAY - TRAMWAY

-- VIAD - VIADUCT

-- VLLA - VILLA

-- WWAY – WATERWAY

-- WD – WOOD

Included duplicate AustralianFlatOrUnitType

-- DUPL - DUPLEX

-- FCTY - FACTORY

-- FLAT - FLAT

-- MBTH - MARINE BERTH

-- OFFC - OFFICE

-- ROOM - ROOM

-- STLL - STALL

-- UNIT - UNIT

-- WHSE - WAREHOUSE

Addition of MarketReportNamesType enumerations

DPRExtractRpt

BasicConsumptionRpt

MeterReadingToUserRpt

MeterReadingToUserNonSTTMRpt

ChangeOfStandingDataRpt

CustomerChurnRpt

EstimationResultsToUserRpt

RevisedEstimationResultsToUserRpt

ReconciliationResultsRpt

ForecastingDataRpt

ApportionmentPercentageRpt

DailyNSLRpt

STTMPipelineAllocationDataRpt

DailyToSTTMRpt

DailyToUserRpt

WeeklyToSTTMRpt

MonthlyToSTTMRpt

PreMonthlyToSTTMRpt

FinMonthlyToSTTMRpt

RevMonthlyToSTTMRpt

MonthlyToUserRpt

TotalGasInjectedRpt

WeeklyToUserRpt

EstimationResultsToNWORpt

RevisedEstimationResultsToNWORpt

MatchedImbalanceTradeRpt

ExpiredImbalanceTradeRpt

ParticipantImbalanceAmountRpt

RevisedImbalanceRpt

T298NewStreetListingRpt

T299CompleteMIRNListingRpt

T900CustomerSiteDetailsMonthlyRpt

T2125AncillaryChargeListingRpt

T2130HeatingValueDailyRpt

T2131PublishedHeatingValueDailyRpt

T2145HaulageRightsRpt

T2270TotalCLPRpt

T2275TotalCLPRpt

T2305EffectiveDegreeDayRpt

T2420QuotationStatusRpt

T2421QuotationSubmissionRpt

T2422QuotationNotificationRpt

T2423QuotationAcceptedRpt

T2424QuotationAvailableRpt

# Schema Manifest

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

| File | Modified |
| --- | --- |
| Acknowledgements\_r15.xsd |  |
| aseXML\_r34.xsd |  |
| BAR\_r31.xsd |  |
| BulkDataTool\_r33.xsd |  |
| CATSReports\_r33.xsd |  |
| CATSTableReplication\_r33.xsd |  |
| ClientInformation\_r15.xsd |  |
| Common\_r34.xsd |  |
| CustomerDetails\_r34.xsd |  |
| CustomerTransfer\_r29.xsd |  |
| ElectricityHighSpeedMonitoring\_r26.xsd |  |
| ElectricityMasterStandingData.xsd |  |
| ElectricityMMS\_r33.xsd |  |
| Electricity\_r25.xsd |  |
| Enumerations.xsd | X |
| Events\_r34.xsd |  |
| HighSpeedMonitoring\_r33.xsd |  |
| Faults\_r33.xsd |  |
| GasMarketWholesale\_r34.xsd |  |
| Gas\_r34.xsd |  |
| Header\_r24.xsd |  |
| HighSpeedMonitoring\_r33.xsd |  |
| MarketWholesale\_r20.xsd |  |
| MDMTReports\_r33.xsd |  |
| MeterDataManagement\_r33.xsd |  |
| NetworkBilling\_r34.xsd |  |
| NMIDataAccess\_r33.xsd |  |
| NOSAssessment\_r28.xsd |  |
| NOSBooking\_r33.xsd |  |
| NOSCommon\_r28.xsd |  |
| NOSEquipment\_r33.xsd |  |
| OneWayNotification\_r33.xsd |  |
| Reports\_r34.xsd |  |
| ServiceOrder\_r33.xsd |  |
| TableReplication\_r33.xsd |  |
| Transactions\_r34.xsd |  |

# Schema Test

## Test Platforms

The new schema has been tested using the following platforms:

* XMLSpy 2013
* As no change to the XML structure has occurred testing has only been performed via XMLSPY.

## 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 2013

### Test Cases

### Test Process

Test that Valid and invalid enumeration work against R32 & R34

NEMB2B\_SiteAddressDetails\_Enumeration\_StreetType\_v5\_Invalid\_rxx.xml

NEMB2B\_SiteAddressDetails\_FlatType\_now\_valid6A\_DUPLEX\_rxx.xml

NEMB2B\_SiteAddressDetails\_FlatType\_now\_valid6A\_FLAT\_rxx.xml

NEMB2B\_SiteAddressDetails\_FlatType\_Still\_Invalid\_ABCD\_rxx.xml

NEMB2B\_SiteAddressDetails\_FlatType\_valid\_F\_rxx.xml

NEMB2B\_SiteAddressDetails\_StreetType\_now\_valid6A\_ARTY\_rxx.xml

NEMB2B\_SiteAddressDetails\_StreetType\_now\_valid6A\_AV\_\_rxx.xml

NEMB2B\_SiteAddressDetails\_StreetType\_Still\_Invalid\_ACBD\_rxx.xml

NEMB2B\_SiteAddressDetails\_StreetType\_valid\_AVE\_rxx.xml

NEMMSATS\_ChangeRequestAllFields\_Enumerations\_v5\_FlatOrUnitType\_Invalid\_rxx.xml

NEMMSATS\_NMIDiscoveryRequestType3\_Invalid\_rxx.xml

NEMMSATS\_NMIStandingDataResponseMeterConfig\_Enumeration\_v5\_StreetSuffix\_Invalid\_rxx.xml

Where xx is 32 or 34 depending on the schema tested

Files that were made invalid by the change to version 6 have been renamed as “now invalid6A” to indicate that they were previously invalid but are now valid due to the re-insertion of the duplicates that they tested for.



1. Compare the Version 5 enumerations file to the version 6A and confirm that differences are only in the comments.

### Test Results

All OK on all Test Platforms, see section 6.2.1

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

### 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 enumerations\_6A.0.xsd, with the included aseXML Change Request\_58. 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: 04/09/2015

| **Option** | **# Votes** | **% Vote** |
| --- | --- | --- |
| For | 5 | 100 |
| Against | 0 | 0 |
| Abstained |  |  |
| Total Members Present | 5 | 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 | 12/10/2015 | Joe Spurio |