

Schema Change Request

Document ID	CR 14
Change Type	Enhancement
Title	Management of enumerations
Date	21/10/2003
Prepared By	Darren Field
Priority	

<i>Notes</i>

Document Control

Version	Date	Author	Summary of Change
1.0	21/10/2003	Darren Field	Initial draft
2.0	6/11/2003	Darren Field	Added impact to ClientInformation schema file.
3.0	22/12/2003	Darren Field	Accepted changes to prepare document for final release.

Document Status

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1. Change Proposal

1.1. Description of the proposed change

The proposed changes are schema technical changes only.

Table 1-1, Proposed Changes

Item#	Change Description	Change Type
Technical changes		
1	Add new "Enumerations" file to maintain specified enumerations.	Enhancement

1.2. Reason for Change

The schema contains many type definitions that are constrained as enumerations. Some of these, specifically address type definitions, require the addition of new enumerations at short notice in order to satisfy business requirements. The current schema design means that these enumerations can only be changed as part of the full schema change process, leading to long delays in the business ability to satisfy customer requests.

The proposed change will enable a change to agreed enumerated types to be carried out outside of the standard change process, with the minimum risk to participant systems.

The general guidelines for an enumeration to be included as a 'quick change' type are:

- Enumeration values are not controlled by any of the participating energy markets
- Data is unlikely to be involved in any decision making processing within a back end system
- Only additions to the enumerated list can be released outside of the standard change cycle. Modifications and deletions cannot.

The initial enumerations identified for this change are all address based:

- AustralianFlatOrUnitType
- AustralianFloorOrLevelType
- AustralianStreetType
- AustralianStreetSuffix
- AustralianPostalDeliveryType

1.3. Supplied Documents

1.3.1 Business process document

Nil

1.3.2 Data model

Nil

1.4. Impact assessments on Participant's systems

1.4.1 Business Impact

This change will enable newly identified address enumerations to be added to the schema and used in business transactions within a shorter time frame than the standard aseXML schema change process. The overall timeframe of implementation will also be dependent on business approval for the use of a newly identified enumeration. For VicGas this also includes the time necessary for a change to the Gas Interface Protocol (GIP), as the schema is part of the GIP. In all likelihood the GIP change process will also need to be updated to enable quick changes.

1.4.2 Technical Impact

The change will impact any back end systems that validate or carry out data mapping on the identified enumerated types. For the change to be useful, participant systems will need to be able to accept newly identified enumerations within the same timeframe that the business and schema changes can be made and approved.

1.5. Affected Configuration Items (Baseline)

1.5.1 Schema

The proposed baseline schema version for this change is aseXML_r12.

2. Approval Proposal

2.1. Description of the proposed approval

The table below defines the action in relation to each change item as listed in the Description of the proposed change section.

Table 2-1, Proposed Change Approval

Item #	Proposal Notes	Category	Action
Technical changes			
1	Add new "Enumerations" file to maintain specified enumerations.	Enhancement	Approved

2.2. Configuration Items (New Baseline)

2.2.1 Draft schema

New draft schema aseXML_r13 is attached.

2.2.2 Schema change description

The schema has had a new file created and included. This file "Enumerations.xsd" contains the schema definitions of the specified enumerated types. The file does not have a release identifier in its name, and so can be replaced as the 'included' file without any change to any other schema files, particularly the aseXML*.xsd file. The only identifier of the specific version of the Enumerations file will be an annotation within the file itself. See below.

```
<xsd:annotation>
  <xsd:documentation>
    File version 1.0
```

Enumerations file containing the enumerations that can be added to at short notice and can be released outside of the standard aseXML change cycle.

Guidelines for use of this file:

- The included types and enumerated values should be controlled by bodies outside of participating industries (ie. councils, etc)
- The included types should be unlikely to ever be involved in back end decision making processing
- Only additions are allowed outside of the standard aseXML Change Process cycle
- Deletions and modifications should be discouraged, but, if necessary, must be made through the standard aseXML Change Process

```
</xsd:documentation>
</xsd:annotation>
```

The file can be approved and released independently of the aseXML release cycle, and thus can be taken up and used by any market that wishes to use the latest enumerations.

2.3. Release notes

The table below shows all the schema files included in this draft schema. Files that have been added, removed or modified from the identified baseline are marked.

File names	Added	Removed	Modified
Acknowledgements_r*.xsd			
aseXML_r*.xsd			X
BulkDataTool_r*.xsd			
CATSReports_r*.xsd			
CATSTableReplication_r*.xsd			
ClientInformation_r*.xsd			X
Common_r*.xsd			
CustomerDetails_r*.xsd			
CustomerTransfer_r*.xsd			
Electricity_r*.xsd			
Enumerations.xsd	X		
Events_r*.xsd			
Faults_r*.xsd			
Gas_r*.xsd			
Header_r*.xsd			
MDMTRReport_r*.xsd			
MeterDataManagement_r*.xsd			
NetworkBilling_r*.xsd			
NMIDataAccess_r*.xsd			
Reports_r*.xsd			
ServiceOrder_r*.xsd			
TableReplication_r*.xsd			
Transactions_r*.xsd			
No of files added	1		
No of files removed		0	
No of files modified			2
Total No of files			23

2.3.1 File Change Summary

The section identifies and lists any changes between the various versions of the schema files and highlights any issues.

2.3.1.1 Acknowledgements

- No change

2.3.1.2 aseXML

- Changed aseXML namespace to aseXML:r13
- Added include statement for Enumerations file

2.3.1.3 BulkDataTool

- No change

2.3.1.4 CATSReport

- No change

2.3.1.5 CATSTableReplication

- No change

2.3.1.6 ClientInformation

- Removed the following element definitions:
 - AustralianFlatOrUnitType
 - AustralianFloorOrLevelType
 - AustralianStreetType

- AustralianStreetSuffix
- AustralianPostalDeliveryType

2.3.1.7 Common

- No change

2.3.1.8 CustomerDetails

- No change

2.3.1.9 CustomerTransfer

- No change

2.3.1.10 Electricity

- No change

2.3.1.11 Enumerations

- New file

2.3.1.12 Events

- No change

2.3.1.13 Faults

- No change

2.3.1.14 Gas

- No change

2.3.1.15 Header

- No change

2.3.1.16 MDMTReport

- No change

2.3.1.17 MeterDataManagement

- No change

2.3.1.18 NetworkBilling

- No change

2.3.1.19 NMIDataAccess

- No change

2.3.1.20 Reports

- No change

2.3.1.21 ServiceOrder

- No change

2.3.1.22 TableReplication

- No change

2.3.1.23 Transactions

- No change

2.3.2 Change log

The following changes have been implemented:

Chg No	Description	FileName	Item#
1	AseXML namespace change to urn:aseXML:r13	aseXML	1
2	Added Enumerations file to 'include' files	aseXML	1
3	New Enumerations file created and added. File contains <i>AustralianFlatOrUnitType</i> , <i>AustralianFloorOrLevelType</i> , <i>AustralianStreetType</i> , <i>AustralianStreetSuffix</i> and <i>AustralianPostalDeliveryType</i> simple type definitions	Enumerations	1
4	Removed the type definitions identified in 3 above from file.	ClientInformation	1

2.4. Test

2.4.1 Test Platforms

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

- XMLSpy 4.3
- MSXML4 SP1
- Xerces 1.4.4 and 2.2.1

2.4.2 Test Cases

The following files have been tested against the new schema and are attached:

- AccCreationNotification_r13.xml
- AmendMeterRouteDetails(RouteChange)_r13.xml
- AmendMeterRouteDetails(SiteAccess)_r13.xml
- AmendMeterRouteDetails(SiteAddress)_r13.xml
- CATSChangeAlertToNFRO_r13.xml
- CATSChangeAlertToVENCorp_r13.xml
- CATSChangeRequest_r13.xml
- CATSChangeRequestAlternate_r13.xml
- CATSChangeRequestAlternateRetro_r13.xml
- CATSChangeRequestRetro_r13.xml
- CATSChangeRequestStandingDataResponse_r13.xml
- CATSChangeRequestStandingDataResponseRetro_r13.xml
- CATSChangeResponse_r13.xml
- CATSChangeWithdrawal_r13.xml
- CATSDataRequest_r13.xml
- CATSNoticeOfReadFailure_r13.xml
- CATSNotification_r13.xml

- CATSNotificationCDB_r13.xml
- CATSNotificationCFRO_r13.xml
- CATSNotificationCompletedCDB_r13.xml
- CATSNotificationPendingCFRO_r13.xml
- CATSNotificationWithdrawalCDB_r13.xml
- CATSNotificationWithdrawalCFRO_r13.xml
- CATSObjectionNotification_r13.xml
- CATSObjectionRequest_r13.xml
- CATSObjectionResponse_r13.xml
- CATSObjectionWithdrawal_r13.xml
- ChangeRequestAllFields_r13.xml
- ChangeRequestAllFieldsMeterConfig_r13.xml
- ChangeRequestAllFieldsMeterConfig_r13.xml
- CurrentRetailerConfirmationRequest_r13.xml
- CurrentRetailerConfirmationResponse_r13.xml
- FieldWorkNotification_r13.xml
- MDMReportRM11_r13.xml
- MDMReportRM16_r13.xml
- MDMReportRM21_r13.xml
- MeterDataHistoryRequest_r13.xml
- MeterDataHistoryResponse_r13.xml
- MeterDataMissingNotification_r13.xml
- MeterDataNotification_r13.xml
- MeterDataResponse_r13.xml
- MeterDataVerifyRequest_r13.xml
- MeterDataVerifyResponse_r13.xml
- MeteredSupplyPointsCount_r13.xml
- MeterNotificationMeterFix_r13.xml
- MeterNotificationMeterRemoval_r13.xml
- MeterReadInputNotification_r13.xml
- NetworkDUoSBillingNotification_r13.xml
- NMIDiscoveryRequestAddr(RTRN)_r13.xml
- NMIDiscoveryRequestAddr(WOOD)_r13.xml
- NMIDiscoveryRequestAddr(PSGE)_r13.xml
- NMIDiscoveryRequestDPID_r13.xml
- NMIDiscoveryRequestMeter_r13.xml
- NMIDiscoveryResponse_r13.xml
- NMISstandingDataRequest_r13.xml
- NMISstandingDataResponse_r13.xml
- NMISstandingDataResponseMeterConfig_r13.xml

- NMISstandingDataUpdateNotification_r13.xml
- NMISstandingDataUpdateNotificationResponse_r13.xml
- ReplicationNotificationAddress_r13.xml
- ReplicationNotificationCATSChangeResponse_r13.xml
- ReplicationNotificationCATSStreamlinedCRCodes_r13.xml
- ReplicationNotificationMeter_r13.xml
- ReplicationNotificationMeterConfig_r13.xml
- ReplicationNotificationNetworkTariffCodes_r13.xml
- ReplicationNotificationStandingDataAccessRules_r13.xml
- ReportRequestMeterConfig_r13.xml
- ReportResponseNMIMasterMeterConfig_r13.xml
- Seq06ObjectionNotification_r13.xml
- ServiceOrderRequest(MeterFix)_r13.xml
- ServiceOrderRequest(NewConnection)_r13.xml
- ServiceOrderResponse(Completion)_r13.xml
- ServiceOrderResponse(Initial)_r13.xml
- SnapshotReportMasterDataStreams_r13.xml
- SpecialReadRequest_r13.xml
- SpecialReadResponse(NoAccess)_r13.xml
- SpecialReadResponse_r13.xml
- TransAck_r13.xml
- TxnNAck_r13.xml

3. Proposal Assessment

3.1. Test

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

3.1.1 Test Platforms

The new schema has been tested using the following platforms:

- XMLSpy 4.3
- MSXML4 SP1
- Xerces 1.4.4 and 2.2.1

3.1.2 Test Cases

The test cases noted in section 2.4.2 have been successfully tested.

3.2. Dependency analysis

Item#	Transactions Impacted	Derived Type Impacted	Schema Filename	Modified Types	Base Type	Used by "Parent" Types
1	N/A	N/A	aseXML Enumerations (new) ClientInformation	N/A	N/A	N/A

3.3. Conformance Report

The ASWG completes the conformance report validating each proposed new schema file against the published aseXML guidelines.

Table 3-1, Change Proposal Conformance Details

Schema Filename	Impacted by Item #	Conformance Details
aseXML	1	Conforms
Enumerations	1	aseXML Guidelines must be updated to identify new file and its usage
ClientInformation	1	Conforms

4. Review Disposition

The ASWG assists developers with schema related queries and confirms appropriateness of development against criteria.

4.1. Description of Changes - Approved and Accepted

Table 4-1, Review Notes for proposed approvals

Item#	Review Notes	Status
1		
2		
3		

Note: Item# is a reference to items listed in the Description of the proposed approval.

4.2. Impact assessments on Participant's systems

The ASWG seeks the market participants' input on the expected business and technical impacts.

4.2.1 Business Impact

4.2.2 Technical Impact

4.3. Supplied Documents

5. Resolution

The ASWG provides a resolution for each change item contained in the Approval Proposal. The resolution is forwarded to the Originator for implementation considerations as required by respective Change Management Process.

5.1. Changes Approved and Accepted

The ASWG compiles the list of change items proposed for approval together with their resolution status in the table below.

Table 5-1, Change Resolution

Item#	Resolution Notes	Status
1	AseXML namespace change to urn:aseXML:r13	Approved
2	Added Enumerations file to 'include' files	Approved
3	New Enumerations file created and added. File contains <i>AustralianFlatOrUnitType</i> , <i>AustralianFloorOrLevelType</i> , <i>AustralianStreetType</i> , <i>AustralianStreetSuffix</i> and <i>AustralianPostalDeliveryType</i> simple type definitions	Approved
4	Removed the type definitions identified in 3 above from file.	Approved

Note: Item# is a reference to items listed in the Description of Changes - Approved and Accepted.