# r4 -> r5

## *_r5.xsd
- Added NEMMCO disclaimer and reservation of rights

## Acknowledgements_r5.xsd
- No changes

## aseXML_r5
- Changed aseXML namespace
- Changed included filenames to match aseXML namespace change
- Rearranged the includes to suit Xerces-J. It uses a SAX parser under the hood and hence definitions need to come before declarations
- Added inclusion of CATSReports, MDMReports and CATSTableReplication

## CATSReports_r5.xsd
- New file containing the report request types for the CATS TransactionGroup

## CATSTableReplication_r5.xsd
- New file containing the table types for CATS
- Elements now have minOccurs="0" and nullable="true" to allow for Oracle limitations

## ClientInformation_r5.xsd
- Split components of a structured address out into their own type
- Changed the definition of AustralianAddress to use above type
- Added a variant of the AustralianStructuredAddress for searching – all fields optional including postcode and state.

NB: These changes are internal to the schema and represent no change to transactions using the AustralianAddress type.

## Common_r5
- Replaced use of xsd:number with xsd:decimal. There was a short period in the schema spec development where decimal was changed to number, but it was still decimal for the 2000/10 version. xsd:number was inadvertently used in r4.
- Added nullable="true" to party element on role assignment. This is needed for DataRequests.
- Changed NMI back to 10 character text field rather than numeric.
- Added NMIChecksum type. Defined the checksum attribute of the NMI type on the basis of this new type. Also added NMIWithChecksum type to allow enforcement of checksum provision where required e.g. NMIDataAccess
- Adjusted indentation
- Added type for release r5
- Added type for Accept/Reject to be used in Table Replication
- Added minOccurs="0" to party on RoleAssignment to cope with Oracle limitations in table replication output
- Added additional documentation
- Changed definition of ReleaseIdentifier to use an underscore rather than a hyphen for development versions in line with the aseXML guidelines

## CustomerTransfer_r5
- Added optional ActualChangeDate field to DataRequest to allow it to be requested. It has been made nullable consistent with the way it has been done for standing data items, where the items required are flagged with an xsi:null="true" attribute.
- Placed some of the orphaned transaction comments into annotation elements
- Adjusted indentation
- Updated DataRequest to r5 because of addition of ActualChangeDate field.

## Electricity_r5

- Replaced use of xsd:number with xsd:decimal.
- Deleted duplicate DLFValue definitions.
- Adjusted indentation
- Added documentation
- Allowed JurisdictionCode to be nullable in line with Data Model

## Events_r5

- Moved annotation for EventSecurity into correct place within type definition
- Adjusted indentation
- Added EventCodeBase type for use in table replication
- Changed the definition of EventCode to use the above type

NB: These changes are internal to the schema and represent no change to transactions using the Event type.

## Gas_r5.xsd

- No changes

## Header_r5.xsd

- "REPL" is no longer a valid TransactionGroup. In order that replication can be used under multiple TransactionGroups, the replication transaction exchanges use the TransactionGroup of the tables being replicated.

## MDMTReports_r5.xsd

- New file containing the report request types for the MDMT TransactionGroup. These may be further refined as the MDM review process proceeds.

## MeterDataManagement_r5.xsd

- Changed documentation on CSVAggregatedSettlementData in line with RM23
- Changed documentation on CSVNonAggregatedSettlementData in line with RM24

## NMIDataAccess_r5.xsd

- Changed type used for provision of addresses in NMIDiscoveryRequest from AustralianAddress to AustralianAddressSearch. This relaxes some of the constraints on the address, e.g. postcode is optional as either a postcode or a locality or both may be provided.
- Use NMIWithChecksum on NMIStandingDataRequest to enforce provision of checksum

NB: These changes are internal to the schema and represent no change to the structure of NMIDiscoveryRequest transactions.

## Reports_r5.xsd

- New file containing the report framework. Specific reports are defined in the TransactionGroup specific files, e.g. CATSReports_r5 or MDMReports_r5

## TableReplication_r5.xsd

- Restructured to allow addition of table replication types without affecting the replication transactions
- Changed the request transaction to be consistent with report transactions in regards to the provision of request parameters
- Changed the replication notification transaction to allow optional provision of the parameters used to trigger the notification in line with MSATS report C1
- Removed the table specific table definitions into CATSTableReplication_r5

## Transactions_r5.xsd

- Added the ReportRequest and ReportResponse transactions

## *_r5.xml

- All - changed namespace of root element
- All - changed schemaLocation to match namespace change
- Changed acknowledgement examples using "REPL" as the TransactionGroup to use "CATS"
- DataRequest_r5 - changed version to r5 from r4
- ReplicationNotification_r5 – new transaction format to include request parameters
- ReplicationRequest_r5 – new transaction format, change ToDate to 9999-12-31 from 9999-01-01

# r5 -> r5-2001

All schemas – change of XML Schema namespace
All schemas – change use of xsd:timeInstant to xsd:dateTime
All schemas – change syntax for default values
All schemas – change use of nullable to nillable
All instances – change root element namespace to urn:aseXML:r5
All instances – change schemaLocation to match namespace change
All instances – change of XML Schema Instance namespace
All instances – change use of xsi:null to xsi:nil