

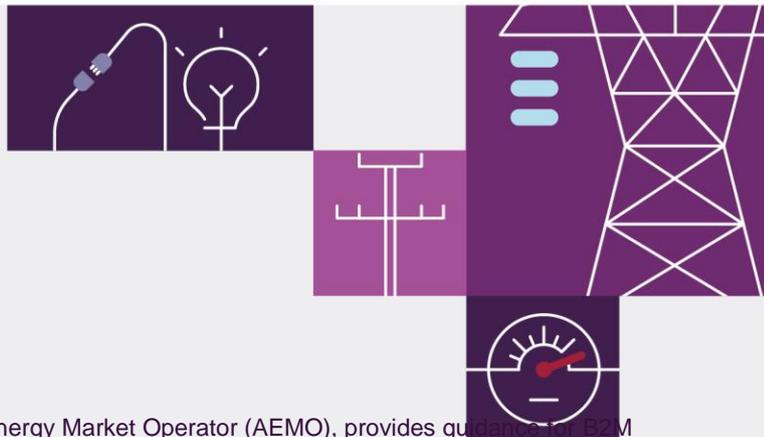
# B2M Mapping to aseXML

May 2023

1.0

Maps the MSATS Procedures v5.4 to the aseXML r43  
transactions and acknowledgements





# Important notice

## Purpose

This B2M Mapping to aseXML, prepared by the Australian Energy Market Operator (AEMO), provides guidance for B2M Mapping to aseXML under the National Electricity Rules (NER).

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Available to the public.

## Document identification

Business custodian: Manager, Metering

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Prepared by: Digital Technical Writers

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## Version history

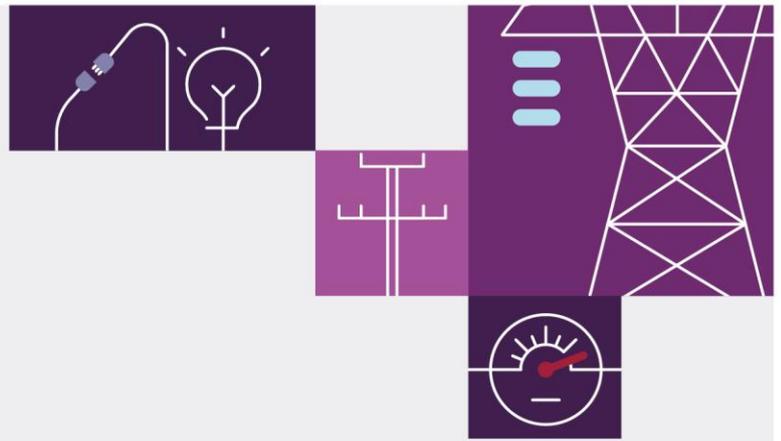
v1.0 Updated to comply with aseXML schema version r43 with the addition of Change NMI – Last Consumer Change Date and House Number To Suffix.

## Documents made obsolete

The release of this document changes only the version of B2M Mapping to aseXML.

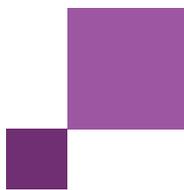
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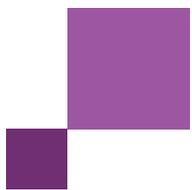


# Contents

<b>Introduction .....</b>	<b>1</b>
Status	1
Purpose .....	1
Audience.....	1
What's in this guide .....	1
Conventions.....	2
How to use this document .....	2
<b>Need to Know .....</b>	<b>3</b>
Related rules and procedures .....	3
Assumed knowledge .....	3
Related resources .....	4
aseXML rules.....	4
Conventions.....	5
<b>Business Transactions .....</b>	<b>6</b>
Advanced change metering installation details .....	8
Advanced exchange of metering .....	10
Backdate NMI .....	13
Change ENLR – child NMI .....	15
Change LNSP.....	16
Change MC .....	17
Change MDP .....	17
Change metering installation details .....	18
Change MPB or MPC or both.....	20
Change multiple roles.....	21
Change network tariff code.....	21
Change NMI .....	22
Change NMI – customer classification code .....	24
Change NMI datastream .....	26
Change NMI embedded network – child .....	27
Change NMI – last consumer change date .....	29
Change parent name .....	30
Change retailer .....	30
Change ROLR .....	31



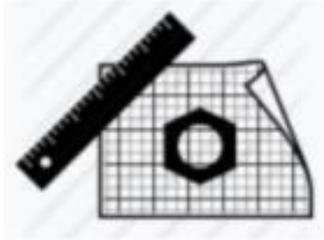
Create child NMI .....	31
Create child NMI, metering installation details and MDM datastream .....	33
Create metering installation details .....	37
Create NMI .....	39
Create NMI datastream .....	41
Create NMI, metering installation details and NMI datastream .....	42
Error corrections .....	49
Exchange of datastream information .....	50
Exchange of metering information .....	51
Provide actual change date .....	53
Reverse – small NMIs .....	54
Update next scheduled read date .....	54
<b>aseXML Message .....</b>	<b>55</b>
Envelope .....	55
Header 55	
Transactions .....	56
Acknowledgements .....	57
<b>Complex types .....</b>	<b>60</b>
AccessContract .....	60
CATSChangeRequest .....	60
CATSChangeRequestData .....	61
CATSChangeRequestNotificationData .....	61
CATSChangeWithdrawal .....	61
CATSChangeResponse .....	62
CATSDataRequest .....	63
CATSObjectionData .....	64
CATSObjectionNotificationData .....	65
CATSObjectionRequest .....	65
CATSObjectionResponse .....	66
CATSObjectionWithdrawal> .....	67
ElectricityDataStream .....	68
ElectricityMeter .....	69
ElectricityMeterRegisterDetail .....	71
ElectricityNMIMasterGroup .....	71
ElectricityNMIMeterGroup .....	73
ElectricityNMIMeterRegisterGroup .....	75
Event	76
NMI	76



NMIStandingData .....	77
<b>Needing Help .....</b>	<b>78</b>
AEMO's Support Hub .....	78
<b>Terms .....</b>	<b>79</b>
<b>Index</b>	<b>80</b>

# Introduction

## Status



This help topic is under construction

Please provide feedback to [SupportHub@aemo.com.au](mailto:SupportHub@aemo.com.au) directed to resolver group: **Web and Automation Support**.

## Purpose

The **MSATS B2M Procedures** (Procedures) refer to Business Documents and Business Signals, this guide maps them to their B2M aseXML Transactions, Acknowledgements, and CSV payloads. The Procedures say what energy businesses must achieve and the B2M aseXML schema is the delivery solution for those business needs.

## Audience

Participants' technical and software development staff responsible for systems implementing the aseXML standard.

## What's in this guide

- **Need to Know** provides the related Rules and procedures, assumed knowledge, related resources, aseXML rules, and conventions.
- **Business Transactions** lists the business transactions in the **MSATS Procedures** and provides the mapping between the required and optional procedure name fields and the aseXML type.
- **aseXML Message** describes the aseXML Message which is the container for all B2M transactions.

- **Complex types** explains the aseXML elements containing other elements or attributes.
- **Needing Help** explains how to get help from AEMO and what information to provide.

## Conventions

B2M procedures	This document
Business Document	Transactions such as: notifications, requests, and responses between participants
Business Signal – BusinessReceipt	Message Acknowledgements or Events
Business Signal – BusinessAcceptance or Rejection	Transaction Acknowledgements

## How to use this document

- This document is a reference, not a document you read from beginning to end.
- Read it in conjunction with the **MSATS Procedures: CATS and WIGS, aseXML Development Guidelines**, and **Technical Guide to MSATS**.
- The references listed throughout this document are primary resources and take precedence over this document.
- Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- This document is written in plain language for easy reading so does not follow the conventions used in the Procedures (see Table 1 Conventions).
- **Text in this format** is a hyperlink to related information.
- **Text in this format** indicates a reference to a document on **AEMO's website**.
- Glossary Terms are capitalised and have the meanings listed against them in the **Retail Electricity Market Procedures - Glossary and Framework**.

# Need to Know

## Related rules and procedures

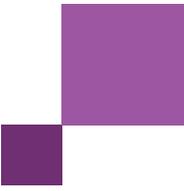
If any discrepancies exist between this document and related rules or procedures, the related rules and procedures prevail.

Name	Details
<b>MSATS Procedures: CATS and WIGS v5.4</b>	The CATS procedures are applicable to NMI (National Metering Identifier) small and large classifications The WIGS procedures are applicable to NMI classifications wholesale, interconnector, generator, and sample
<b>National Electricity Rules</b>	Reflect the initial Rules made by the SA Minister under section 90 of the National Electricity Law (NEL)
<b>Retail Electricity Market Procedures - Glossary and Framework</b>	Assist Market Participants to understand the overall MSATS framework and terms
<b>Standing Data for MSATS</b>	Provides detailed descriptions of MSATS NMI Standing Data tables, data types, and requirements to assist participants building systems and processes to interact with MSATS

## Assumed knowledge

This guide assumes you have knowledge of:

- **Guidelines for the Development of aseXML.**
- **MSATS Procedures: CATS and WIGS.**
- **Standing Data for MSATS.**
- **The National Electricity Rules.**
- **The Retail Electricity Market XML Standards.**
- **W3C XML Technology Standards.**

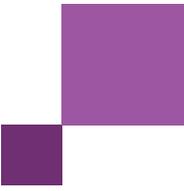


## Related resources

Name	Details
<a href="#">aseXML Development Guidelines</a>	Provide guidance and advice for parties designing aseXML documents
<a href="#">aseXML Document Samples</a>	Sample aseXML documents for current or previous releases
<a href="#">aseXML Standards</a>	The standard developed by Australian energy industries to facilitate the exchange of information between energy industry participants using XML Contains schemas and examples
<a href="#">Technical Guide to MSATS</a>	Supplement to the MSATS B2M policies, procedures, and guides providing an understanding of MSATS functionality and business rules (including B2M transactions)
<a href="#">MSATS procedures - CATS</a>	CATS Procedure Principles and Obligations
<a href="#">W3C XML Technology Standards</a>	XML Technologies including XML, XML Namespaces, XML Schema, XSLT, Efficient XML Interchange (EXI), and other related standards.

## aseXML rules

- Procedural requirements must be complied with. If a business field is mandatory or required, the business procedure is the authority.
- If an item is mandatory in the schema, you must supply it. Schema field requirements (optional, required etc.) are separate from business field requirements in the procedures. For example, mandatory in the procedures may not mean mandatory in the aseXML schema.

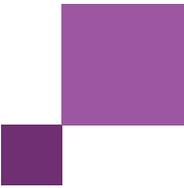


## Conventions

This table explains the mapping between terms used in the Procedures and this document.

Table 1 Conventions

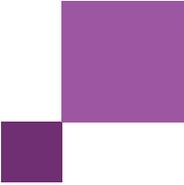
<b>MSATS procedures</b>	<b>This document</b>
Business Document	<b>Transactions</b> such as: notifications, requests, and responses between participants
Business Signal – BusinessReceipt	<b>Message Acknowledgements</b> or <b>Event</b>
Business Signal – BusinessAcceptance or Rejection	<b>Transaction Acknowledgements</b>

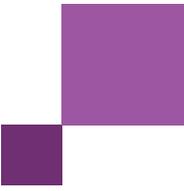


# Business Transactions

These are the business transactions from the **MSATS Procedures** energy businesses must achieve.

1. **Advanced change metering installation details**
2. **Advanced exchange of metering**
3. **Backdate NMI**
4. **Change ENLR – child NMI**
5. **Change LNSP**
6. **Change MC**
7. **Change MDP**
8. **Change metering installation details**
9. **Change MPB or MPC or both**
10. **Change multiple roles**
11. **Change network tariff code**
12. **Change NMI**
13. **Change NMI – customer classification code**
14. **Change NMI datastream**
15. **Change NMI embedded network – child**
16. **Change NMI – Last Consumer Change Date**
17. **Change parent name**
18. **Change retailer**
19. **Change ROLR**
20. **Create child NMI**
21. **Create child NMI, metering installation details and MDM datastream**

- 
22. **Create metering installation details**
  23. **Create NMI**
  24. **Create NMI datastream**
  25. **Create NMI, metering installation details and NMI datastream**
  26. **Error corrections**
  27. **Exchange of datastream information**
  28. **Exchange of metering information**
  29. **Provide actual change date**
  30. **Reverse – small NMIs**
  31. **Update next scheduled read date**



## Advanced change metering installation details

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	ParticipantID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniquelIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code  Proposed Change Date	Complex	Required	Customer Transfer
<b>ElectricityMeter</b>	Meter Serial ID  NMI  NMI Checksum	Complex	Required	Electricity
<b>ElectricityMeter</b>	Meter Manufacturer  Meter Model  Meter Register Status Code  Meter Use  Metering Installation Type Code	Complex	Required  For each meter associated with the NMI, where the Meter Register Status Code is C, and the information does not exist in MSATS	Electricity
<b>ElectricityMeterRegisterDetail</b>	Actual/Cumulative Indicator  Controlled Load Indicator  Dial Format  MDM Contributory Suffix  Multiplier Value  Network Tariff Code  Register ID  Time of Day Code  Unit of Measure Code	Complex	Required  For all Register IDs associated with the NMI, where the:  - Register Identifier Status Code is C  - Information does not exist in MSATS	Electricity

Element	Procedure name	Type	Procedure use	Schema file
<b>ElectricityDataStream</b>	Datastream Type	Complex	Required	Electricity
	NMI Suffix			
	Profile Name			
AveragedDailyLoad	ADL	Simple	For all Datastreams associated with the NMI where the: - Datastream Status Code is A - Information does not exist in MSATS	
DataStreamType	Datastream Status Code	Simple		
RoleIdentifier > RoleID	MDP	Simple	Optional	Common
	MPB			
	MPC			
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer
<b>ElectricityMeter</b>	Current Transformer Accuracy Class	Group	Optional	Electricity
	Current Transformer Location			
	Current Transformer Ratio (available)			
	Current Transformer Ratio (connected)			
	Current Transformer Test			
	Current Transformer Test Date			
	Current Transformer Type			
	GPS Coordinates - Latitude			
	GPS Coordinates - Longitude			
	Last Test Date			
	Meter Read Type			
	Network Tariff Code Additional Information			
Test Result Accuracy				

Element	Procedure name	Type	Procedure use	Schema file
	Voltage Transformer Accuracy Class			
	Voltage Transformer Location			
	Voltage Transformer Ratio (available and connected)			
	Voltage Transformer Test			
	Voltage Transformer Test Date			
	Voltage Transformer Type			

## Advanced exchange of metering

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	Meter Serial ID	Complex	Required	Electricity
	NMI			
	NMI Checksum			
<b>ElectricityMeter</b>	Metering Installation Type Code	Complex	Required	Electricity
	Meter Register Status Code		For each meter associated with the NMI where the: - Meter Register Status Code is C - Information does not exist in MSATS	
<b>ElectricityMeter</b>	Meter Manufacturer	Complex	Required	Electricity

Element	Procedure name	Type	Procedure use	Schema file
	Meter Model		For each meter associated with the NMI where the:  - Meter Register Status Code is C - Information does not exist in MSATS	
	Meter Use			
<b>ElectricityMeterRegisterDetail</b>	Actual/Cumulative Indicator	Complex	Required  For all Register IDs associated with the NMI where the:  - Register Identifier Status Code is C - Information does not exist in MSATS	Electricity
	Controlled Load Indicator			
	Dial Format			
	MDM Contributory Suffix			
	Multiplier Value			
	Network Tariff Code			
	Register ID			
	Register Identifier Status Code			
	Time of Day Code			
	Unit of Measure Code			
<b>ElectricityDataStream</b>	Datastream Type	Complex	Required  For all Datastreams associated with the NMI where the:  - Datastream Status Code is A - Information does not exist in MSATS	Electricity
	NMI Suffix			
	Profile Name			
AverageDailyLoad	ADL	Simple	Required	Electricity
DataStreamType	Datastream Status Code	Simple	For all Datastreams associated with the NMI where the:  - Datastream Status Code is A - Information does not exist in MSATS	Electricity
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Actual End Date	Complex	Optional	Customer Transfer
RoleIdentifier > RoleID	MDP	Simple	Optional	Common
	MPB			

Element	Procedure name	Type	Procedure use	Schema file
	MPC			
<b>ElectricityMeter</b>	Current Transformer Accuracy Class	Complex	Optional	Electricity
	Current Transformer Location			
	Current Transformer Test			
	Current Transformer Type			
	Current Transformer Ratio (available)			
	Current Transformer Ratio (connected)			
	Current Transformer Test Date			
	GPS Coordinates - Latitude			
	GPS Coordinates - Longitude			
	Last Test Date			
	Meter Location			
	Meter Hazard			
	Meter Read Type			
	NSRD			
	Test Result			
	Voltage Transformer Accuracy Class			
	Voltage Transformer Location			
	Voltage Transformer Ratio (available and connected)			
	Voltage Transformer Test			
	Voltage Transformer Test Date			

Element	Procedure name	Type	Procedure use	Schema file
	Voltage Transformer Type			
<b>ElectricityNMI MeterGroup</b>	Network Tariff Code Additional Information	Group	Optional	CATSTable Replication

## Backdate NMI

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Proposed Change Date	Complex	Required	Customer Transfer
	Actual End Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
RoleIdentifier > RoleID	FRMP	Simple	Required	Common
	LNSP			
	LR			
	MDP			
	MPB			
	MPC			
	RoLR			
	RP			
<b>ElectricityNMI MasterGroup</b>	Connection Configuration	Group	Required	ElectricityMaster StandingData
	DLF Code			
	DPID			
	DP Number			

Element	Procedure name	Type	Procedure use	Schema file
	Flat Number			
	Flat Type			
	Floor Number			
	Floor Type			
	GNAF PID			
	House Number			
	House Number Suffix			
	House Number To			
	House Number To Suffix			
	Jurisdiction Code			
	Locality			
	Location Descriptor			
	Lot Number			
	NMI Classification Code			
	NMI Status Code			
	Postcode			
	Section Number			
	Shared Isolation Point Flag			
	State			
	Street Name			
	Street Suffix			
	Street Type			
	TNI Code			
<b>ElectricityNMI MasterGroup</b>	Parent Name	Group	Optional	ElectricityMaster StandingData
	Building Name			
	Feeder Class			

Element	Procedure name	Type	Procedure use	Schema file
	Customer Threshold Code			

## Change ENLR – child NMI

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSCheckRequest</b> > CATSCheckRequestData	Change Reason Code Proposed Change Date	Complex	Required	Customer Transfer
<b>CATSCheckRequest</b> > CATSCheckRequestData	Actual End Date	Complex	Optional	Customer Transfer
<b>ElectricityMeter</b>	NMI NMI Checksum	Complex	Required	Electricity

## Change LNSP

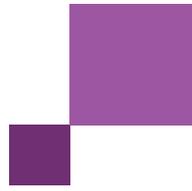
Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer
<b>ElectricityNMIMasterGroup</b>	DLF Code	Group	Optional	ElectricityMaster StandingData
	Jurisdiction Code			
	NMI Classification Code			
	TNI Code			

## Change MC

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required For new MC	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer

## Change MDP

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required For new MC	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
RoleIdentifier > RoleID	MDP	Simple	Required	Common
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer



## Change metering installation details

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniquelIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code Proposed Change Date	Complex	Required	Customer Transfer
<b>ElectricityMeter</b>	Meter Serial ID NMI NMI Checksum	Complex	Required	Electricity
<b>ElectricityMeter</b>	Metering Installation Type Code Meter Manufacturer Meter Model Meter Use Meter Register Status Code	Complex	Required For each meter associated with the NMI where the: Information does not exist in MSATS	Electricity
<b>ElectricityMeterRegisterDetail</b>	MDM Contributory Suffix Network Tariff Code	Complex	Required For all Register IDs associated with the NMI where the: - Meter Register Status Code is C - Register Identifier Status Code is C - Information does not exist in MSATS	Electricity
<b>ElectricityMeterRegisterDetail</b>	Actual/Cumulative Indicator Controlled Load Indicator Dial Format Multiplier Value Register ID	Complex	Required For all Register IDs associated with the NMI where the: - Register Identifier Status Code is C - Information does not exist in MSATS	Electricity

Element	Procedure name	Type	Procedure use	Schema file
	Register Identifier Status Code			
	Time of Day Code			
	Unit of Measure Code			
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Actual End Date	Complex	Optional For CR 3051	Customer Transfer
<b>ElectricityMeter</b>	Additional Site Information	Complex	Optional	Customer Transfer
	Current Transformer Accuracy Class			
	Current Transformer Location			
	Current Transformer Ratio (available)			
	Current Transformer Ratio (connected)			
	Current Transformer Test			
	Current Transformer Test Date			
	Current Transformer Type			
	GPS Coordinates – Latitude			
	GPS Coordinates – Longitude			
	Meter Hazard			
	Meter Location			
	Meter Route			
	Voltage Transformer Accuracy Class			
	Voltage Transformer Location			
	Voltage Transformer Ratio (Available and Connected)			

Element	Procedure name	Type	Procedure use	Schema file
	Voltage Transformer Type			
	Voltage Transformer Test			
	Voltage Transformer Test Date			

## Change MPB or MPC or both

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATChangeRequest</b> > <b>CATChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
RoleIdentifier > RoleID	MPB	Simple	At least one required	Common
	MPC			
<b>CATChangeRequest</b> > <b>CATChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer

## Change multiple roles

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
RoleIdentifier > RoleID	MPB	Simple	Required	Common
	MPC		At least one from FRMP	
	MPC			
	RP			
RoleIdentifier > RoleID	MDP	Simple	Required	Common
	MPB		At least one from MC	
	MPC			
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual End Date	Complex	Optional for retrospective changes	Customer Transfer

## Change network tariff code

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions

Element	Procedure name	Type	Procedure use	Schema file
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Actual End Date	Complex	Required For retrospective changes	Customer Transfer
<a href="#">ElectricityMeter</a>	Meter Serial ID	Complex	Required	Electricity
	Network Tariff Code			
	NMI			
	NMI Checksum			
	Register ID			
<a href="#">ElectricityMeter</a>	Network Tariff Code Additional Information	Complex	Optional	Electricity

## Change NMI

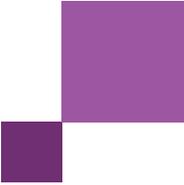
Element/	Procedure name	Type	Procedure use	Schema file
<a href="#">Header</a>	Participant ID	Complex	Required	Header
<a href="#">Transaction</a> > <a href="#">TransactionIdentifier</a> > <a href="#">UniquelIdentifier</a>	Participant Transaction ID	Attribute	Required	Transactions
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<a href="#">ElectricityMeter</a>	NMI	Complex	Required	Electricity
	NMI Checksum			
<a href="#">ElectricityNMIMasterGroup</a>	Building Name	Group	Optional	ElectricityMaster StandingData
	Connection Configuration			
	Customer Threshold Code			
	DLF Code			

Element/	Procedure name	Type	Procedure use	Schema file
	DP Number			
	DPID			
	Feeder Class			
	Flat Number			
	Flat Type			
	Floor Number			
	Floor Type			
	GNAF PID			
	House Number			
	House Number Suffix			
	House Number To			
	House Number To Suffix			
	Jurisdiction Code			
	Locality			
	Location Descriptor			
	Lot Number			
	NMI Classification Code			
	NMI Status Code			
	Parent Name			
	Postcode			
	Section Number			
	Shared Isolation Point Flag			
	State			
	Street Name			
	Street Suffix			
	Street Type			

Element/	Procedure name	Type	Procedure use	Schema file
	TNI Code			
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer

## Change NMI – customer classification code

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<a href="#">Transaction</a> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
<a href="#">ElectricityNMIMasterGroup</a> > NMIClassificationCode	Customer Classification Code	Group	Required	ElectricityMaster StandingData
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer



## Change NMI – customer classification code 5054 example

```

1  <?xml version="1.0"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd">
5      <Header>
6          <From>ENERGYAP </From>
7          <To description="National Electricity Market Management Company">NEMMCO </To>
8          <MessageID>Auto-Test-0903 -5054</MessageID>
9          <MessageDate>2009-03-09T10:15:00</MessageDate>
10         <TransactionGroup>CATS</TransactionGroup>
11         <Priority>Medium</Priority>
12         <SecurityContext>ENERGYAPBATCH</SecurityContext>
13         <Market>NEM</Market>
14     </Header>
15     <Transactions>
16     <Transaction transactionID="Auto-Test-0903 -5054" transactionDate="2009-03-09T10:15:00">
17     <CATSChangeRequest version="r29">
18     <ChangeReasonCode>5054</ChangeReasonCode>
19     <ProposedDate>2009-03-09</ProposedDate>
20     <NMIStandingData xsi:type="ase:ElectricityStandingData">
21     <NMI checksum="6">4323SCHER9</NMI>
22     <MasterData>
23     <CustomerClassificationCode>RES</CustomerClassificationCode>
24     </MasterData>
25     </NMIStandingData>
26     </CATSChangeRequest>
27     </Transaction>
28     </Transactions>
29 </ase:aseXML>
30
    
```

## Change NMI – Last Consumer Change Date

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniquelIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code  Proposed Change Date	Complex	Required	Customer Transfer
<b>ElectricityMeter</b>	NMI  NMI Checksum	Complex	Required	Electricity
<b>ElectricityNMI MasterGroup</b> > NMIClassificationCode	LastConsumerChangeDate	Date	Required	ElectricityMaster StandingData

Element	Procedure name	Type	Procedure use	Schema file
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer

## Change NMI – Last Consumer Change Date example

```
<?xml version="1.0"?>
- <ase:aseXML xsi:schemaLocation="urn:aseXML:r43 D:\WorkDone\2022
  \SchemaChange_B2B_B2M_CDR\aseXML_43\aseXML_r43.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ase="urn:aseXML:r43">
  - <Header>
    <From>ENERGYAP </From>
    <To description="National Electricity Market Management Company">NEMMCO </To>
    <MessageID>Auto-Test-0903 -5054</MessageID>
    <MessageDate>2023-02-17T10:15:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>ENERGYAPBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  - <Transactions>
    - <Transaction transactionDate="2023-02-17T10:15:00" transactionID="Auto-Test-0903 -5054">
      - <CATSChangeRequest version="r29">
        <ChangeReasonCode>5056</ChangeReasonCode>
        <ProposedDate>2023-02-17</ProposedDate>
        - <NMISTandingData xsi:type="ase:ElectricityStandingData">
          <NMI checksum="6">4323SCHER9</NMI>
          - <MasterData>
            <LastConsumerChangeDate>2023-02-20</LastConsumerChangeDate>
          </MasterData>
        </NMISTandingData>
      </CATSChangeRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>
```

## Change NMI datastream

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer

Element	Procedure name	Type	Procedure use	Schema file
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
<b>ElectricityDataStream</b>	NMI Suffix	Complex	Required	Electricity
<b>ElectricityDataStream</b>	Datastream Type	Complex	Required for all Register IDs associated with the NMI suffix where the:	Electricity
	Profile Name		- Datastream Status Code is A - The information does not exist in MSATS	
DataStreamType	Datastream Status Code	Simple		
AveragedDailyLoad	ADL	Simple		
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer
<b>ElectricityMeter</b>	MDM Contributory Suffix	Complex	Optional	Electricity
	Register ID			
	Meter Serial ID			

## Change NMI embedded network – child

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction &gt; TransactionIdentifier &gt; UniqueIdentifier</b>	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			

Element	Procedure name	Type	Procedure use	Schema file
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer
<b>ElectricityNMIMasterGroup</b>	Building Name	Group	Optional	ElectricityMaster StandingData
	Connection Configuration			
	Customer Threshold Code			
	DLF Code			
	DP Number			
	DPID			
	Feeder Class			
	Flat Number			
	Flat Type			
	Floor Number			
	Floor Type			
	GNAF PID			
	House Number			
	House Number Suffix			
	House Number To			
	House Number To Suffix			
	Jurisdiction Code			
	Last Consumer Change Date			
	Locality			
	Location Descriptor			
	Lot Number			
	NMI Classification Code			
	NMI Status Code			

Element	Procedure name	Type	Procedure use	Schema file
	Parent Name			
	Postcode			
	Shared Isolation Point Flag			
	State			
	Street Name			
	Street Suffix			
	Street Type			
	TNI Code			

## Change NMI – last consumer change date

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSDataRequest</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
	Meter Serial ID			
<b>LastConsumerChangeDate</b>	<b>Last Consumer Change Date</b>	Date	Required	Electricity Master Standing Data
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual End Date	Complex	Optional	Customer Transfer
			For retrospective changes	

## Change parent name

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Proposed Change Date	Complex	Required	Customer Transfer
<b>ElectricityMeter</b>	NMI NMI Checksum	Complex	Required	Electricity
<b>ElectricityNMIMasterGroup</b>	Parent Name	Group	Required	ElectricityMaster StandingData
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual Change Date	Complex	Optional For retrospective changes	Customer Transfer

## Change retailer

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code Proposed Change Date Read Type Code	Complex	Required	Customer Transfer
<b>ElectricityMeter</b>	NMI NMI Checksum	Complex	Required	Electricity
RoleIdentifier > RoleID	New RP	Simple	Optional	Common

## Change ROLR

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Actual End Date	Complex	Required For retrospective changes	Customer Transfer
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			

## Create child NMI

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			

Element	Procedure name	Type	Procedure use	Schema file
RoleIdentifier > RoleID	FRMP	Simple	Required	Common
	LNSP (as ENM)			
	LR			
	MDP			
	MPB			
	MPC			
	RoLR			
	RP			
<b>ElectricityNMI MasterGroup</b>	Child Name	Group	Required	ElectricityMaster StandingData
	Connection Configuration			
	DLF Code			
	Jurisdiction Code			
	Locality			
	NMI Classification Code			
	NMI Status Code			
	Postcode			
	State			
	Shared Isolation Point Flag			
TNI Code				
<b>ElectricityNMI MasterGroup</b>	DPID	Group	As appropriate	ElectricityMaster StandingData
	DP Number			
	Flat Number			
	Flat Type			
	Floor Number			
	Floor Type			
	GNAF PID			

Element	Procedure name	Type	Procedure use	Schema file
	House Number			
	House Number Suffix			
	House Number To			
	House Number To Suffix			
	Location Descriptor			
	Lot Number			
	Section Number			
	Street Name			
	Street Suffix			
	Street Type			
<b>ElectricityNMIMasterGroup</b>	Building Name	Group	Optional	ElectricityMaster StandingData
	Customer Threshold Code			
	Feeder Class			
	Parent Name			

## Create child NMI, metering installation details and MDM datastream

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
	Meter Register Status Code			

Element	Procedure name	Type	Procedure use	Schema file
	Locality			
	Meter Manufacturer			
	Meter Model			
	Meter Use			
	NMI Classification Code			
	NMI Status Code			
	Postcode			
	State			
RoleIdentifier > RoleID	FRMP (as nominated)	Simple	Required	Common
	LNSP (as ENM)			
	LR			
	MDP			
	MPB			
	MPC			
	RoLR			
	RP			
<b>ElectricityMeter</b>	GPS Coordinates - Latitude	Group	Required	Customer Transfer
	GPS Coordinates – Longitude			
	Jurisdiction Code			
	Locality			
	Meter Manufacturer			
	Meter Model			
	Meter Use			
	NMI Classification Code			
	NMI Status Code			
	Postcode			
	State			

Element	Procedure name	Type	Procedure use	Schema file
<b>ElectricityMeterRegisterDetail</b>	Actual/Cumulative Indicator	Complex	Required	Electricity
	Controlled Load Indicator			
	Dial Format			
	MDM Contributory Suffix			
	Metering Installation Type Code			
	Meter Serial ID			
	Multiplier Value			
	Network Tariff Code			
	Register ID			
	Register Identifier Status Code			
	Time of Day Code			
	Unit of Measure Code			
<b>ElectricityNMIMasterGroup</b>	Child Name	Complex	Required	ElectricityMaster StandingData
	Connection Configuration			
	DLF Code			
	Shared Isolation Point Flag			
	TNI Code			
<b>ElectricityDataStream</b>	Datastream Type	Complex	Required	Electricity
	NMI Suffix			
	Profile Name			
AveragedDailyLoad	ADL	Simple		
DataStreamType	Datastream Status Code	Simple		
<b>ElectricityNMIMasterGroup</b>	DPID	Group	As appropriate	ElectricityMaster StandingData
	Flat Number			
	Flat Type			
	Floor Number			

Element	Procedure name	Type	Procedure use	Schema file
	Floor Type			
	House Number			
	House Number Suffix			
	House Number To			
	House Number to Suffix			
	Location Descriptor			
	Lot Number			
	Street Name			
	Street Suffix			
	Street Type			
<b>ElectricityNMIMasterGroup</b>	Building Name	Group	Optional	ElectricityMaster StandingData
	Customer Threshold Code			
	Embedded Network Parent Name			
	Feeder Class			
<b>ElectricityMeter</b>	Current Transformer Accuracy Class	Complex	Optional	Electricity
	Current Transformer Location			
	Current Transformer Ratio (Available)			
	Current Transformer Ratio (Connected)			
	Current Transformer Test			
	Current Transformer Test Date			
	Current Transformer Type			
	Last Test Date			
	Meter Hazard			
	Meter Location			
	Meter Read Type			

Element	Procedure name	Type	Procedure use	Schema file
	NSRD			
	Test Result			
	Voltage Transformer Accuracy Class			
	Voltage Transformer Location			
	Voltage Transformer Ratio (available and connected)			
	Voltage Transformer Test			
	Voltage Transformer Test Date			
	Voltage Transformer Type			
<b>ElectricityNMIMeterRegisterGroup</b>	Network Tariff Code Additional Information	Group	Optional	CATSTable Replication

## Create metering installation details

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniquelIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code  Proposed Change Date	Complex	Required	Customer Transfer
<b>ElectricityMeter</b>	GPS Coordinates - Latitude  GPS Coordinates – Longitude  Meter Register Status Code	Complex	Required	Electricity

Element	Procedure name	Type	Procedure use	Schema file
	Meter Serial ID			
	Meter Manufacturer			
	Meter Model			
	Meter Use			
	NMI			
	NMI Checksum			
FRMP		Simple > RoleIdentifier > RoleID	Required	Common
LR				
RoLR				
RP				
MDP				
MPB				
MPC				
<b>ElectricityMeterRegisterDetail</b>		Complex	Required	Electricity
	<ul style="list-style-type: none"> <li>- Actual/Cumulative Indicator</li> <li>- Controlled Load Indicator</li> <li>- Dial Format</li> <li>- MDM Contributory Suffix</li> <li>- Metering Installation Type Code</li> <li>- Multiplier Value</li> <li>- Network Tariff Code</li> <li>- Register Identifier Status Code</li> <li>- Register ID</li> <li>- Time of Day Code</li> <li>- Unit of Measure Code</li> </ul>			
<b>CATSCheckRequest</b>		Complex > CATSCheckRequestData	Optional for retrospective changes	Customer Transfer
	<ul style="list-style-type: none"> <li>- Actual End Date</li> </ul>			

Element	Procedure name	Type	Procedure use	Schema file
<b>ElectricityMeter</b>		Complex	Optional	Electricity
<ul style="list-style-type: none"> <li>- Current Transformer Location</li> <li>- Current Transformer Ratio (available)</li> <li>- Current Transformer Ratio (connected)</li> <li>- Current Transformer Test Date</li> <li>- Current Transformer Type</li> <li>- Last Test Date</li> <li>- Meter Hazard</li> <li>- Meter Location</li> <li>- Meter Read Type</li> <li>- NSRD</li> <li>- Test Result</li> <li>- Voltage Transformer Accuracy Class</li> <li>- Voltage Transformer Location</li> <li>- Voltage Transformer Test</li> <li>- Voltage Transformer Test Date</li> <li>- Voltage Transformer Type</li> <li>- Voltage Transformer Ratio (available and connected)</li> </ul>				

## Create NMI

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSCChangeRequest</b> > <b>CATSCChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
RoleIdentifier > RoleID	FRMP (as nominated)	Simple	Required	Common
	LR			
	RoLR			

Element	Procedure name	Type	Procedure use	Schema file
	RP			
	MDP			
	MPB			
	MPC			
<b>ElectricityNMIMeterGroup</b>	DLF Code	Group	Required	CATSTable Replication
	Jurisdiction Code			
	Locality			
	NMI Classification Code			
	NMI Status Code			
	Postcode			
	State			
	TNI Code			
<b>ElectricityNMIMasterGroup</b>	Connection Configuration	Group	Required	ElectricityMaster StandingData
	Shared Isolation Point Flag			
<b>ElectricityNMIMasterGroup</b>	DPID	Group	As appropriate	ElectricityMaster StandingData
	DP Number			
	Flat Number			
	Flat Type			
	Floor Number			
	Floor Type			
	GNAF PID			
	House Number			
	House Number Suffix			
	House Number To			
	House Number To Suffix			
	Location Descriptor			

Element	Procedure name	Type	Procedure use	Schema file
	Lot Number			
	Section Number			
	Street Name			
	Street Suffix			
	Street Type			
<b>ElectricityNMI MasterGroup</b>	Parent Name	Group	Optional	ElectricityMaster StandingData
	Building Name			
	Feeder Class			
	Customer Threshold Code			

## Create NMI datastream

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSChangeRequest</b> > <b>CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
<b>ElectricityDataStream</b>	NMI Suffix	Complex	Required	Electricity
<b>ElectricityDataStream</b>	Datastream Type	Complex	Required	Electricity
	Profile Name			
AveragedDailyLoad	ADL	Simple		
DataStreamType	Datastream Status Code	Simple		

Element	Procedure name	Type	Procedure use	Schema file
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Actual End Date	Complex	Optional For retrospective changes	Electricity

## Create NMI, metering installation details and NMI datastream

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<a href="#">Transaction</a> > TransactionIdentifier > UniquelIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	GPS Coordinates - Latitude	Complex	Required	Electricity
	GPS Coordinates – Longitude			
	Meter Register Status Code			
	Meter Manufacturer			
	Meter Model			
	Meter Use			
	NMI			
	NMI Checksum			
RoleIdentifier > RoleID	FRMP (as nominated)	Simple	Required	Common
	LR			
	RoLR			
	RP			
	MDP			
	MPB			
	MPC			
<b>ElectricityNMIMeterGroup</b>	DLF Code	Group	Required	

Element	Procedure name	Type	Procedure use	Schema file
	Locality			ElectricityMaster StandingData
	Jurisdiction Code			
	NMI Classification Code			
	NMI Status Code			
	Postcode			
	State			
	TNI Code			
<b>ElectricityNMIMasterGroup</b>	Shared Isolation Point Flag	Group	Required	ElectricityMaster StandingData
	ConnectionConfiguration			
<b>ElectricityMeterRegisterDetail</b>	Actual/Cumulative Indicator	Complex	Required	Electricity
	Controlled Load Indicator			
	Dial Format			
	Meter Serial ID			
	Metering Installation Type Code			
	Register ID			
	Register Identifier Status Code			
	Network Tariff Code			
	Multiplier Value			
	Time of Day Code			
	Unit of Measure Code			
	MDM Contributory Suffix			
<b>ElectricityDataStream</b>	NMI Suffix	Complex	Required	Electricity
	Datastream Type			
	Profile Name			
AveragedDailyLoad	ADL	Simple		
DataStreamType	Datastream Status Code	Simple		
<b>ElectricityNMIMasterGroup</b>	DPID	Group		

Element	Procedure name	Type	Procedure use	Schema file
	DP Number		As appropriate	ElectricityMaster StandingData
	Flat Number			
	Flat Type			
	Floor Number			
	Floor Type			
	GNAF PID			
	House Number			
	House Number Suffix			
	House Number To			
	House Number To Suffix			
	Location Descriptor			
	Lot Number			
	Section Number			
	Street Name			
	Street Suffix			
	Street Type			
<b>ElectricityNMIMasterGroup</b>	Current Transformer Location	Complex	Optional	ElectricityMaster StandingData
	Current Transformer Ratio (available)			
	Current Transformer Ratio (connected)			
	Current Transformer Test Date			
	Current Transformer Type			
	Last Test Date			
	Meter Hazard			
	Meter Location			
	Meter Read Type			
	Network Tariff Code Additional Information			

Element	Procedure name	Type	Procedure use	Schema file
	NSRD			
	Test Result			
	Voltage Transformer Accuracy Class			
	Voltage Transformer Location			
	Voltage Transformer Test			
	Voltage Transformer Test Date			
	Voltage Transformer Type			
	Voltage Transformer Ratio (available and connected)			

## Create NMI, metering installation details and NMI datastream 2501 example

```

<?xml version="1.0"?>
<ase:aseXML xmlns:ase="urn:aseXML:r43"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:aseXML:r43
http://www.nemmco.com.au/aseXML/schemas/r43/aseXML_r43.xsd
">
  <Header>
    <From>POOLNSW</From>
    <To description="National Electricity Market Management Company">NEMMCO</To>
    <MessageID>AUTOGEN-MSG-0000001</MessageID>
    <MessageDate>2012-10-05T11:22:57+10:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>POOLNSWBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="AUTOGEN-TRAN-0000001-16" transactionDate="2012-10-05T11:22:57+10:00">
      <CATSChangeRequest version="r29">
        <ChangeReasonCode>2501</ChangeReasonCode>
        <ProposedDate>2012-04-10</ProposedDate>
        <NMISTandingData xsi:type="ase:ElectricityStandingData">
<NMI checksum="9">NSW0000001</NMI>
          <MasterData>
            <JurisdictionCode>NSW</JurisdictionCode>
            <NMIClassificationCode>SMALL</NMIClassificationCode>
          </MasterData>
          <TransmissionNodeIdentifier>VER2</TransmissionNodeIdentifier>
          <DistributionLossFactorCode>HHVT</DistributionLossFactorCode>
          <Address>
            <StructuredAddress>
              <FlatOrUnit>
                <FlatOrUnitType>U</FlatOrUnitType>
              </FlatOrUnit>
              <FlatOrUnitNumber>9</FlatOrUnitNumber>
            </StructuredAddress>
            <FloorOrLevel>
              <FloorOrLevelType>FL</FloorOrLevelType>
              <FloorOrLevelNumber>9</FloorOrLevelNumber>
            </FloorOrLevel>
            <BuildingOrPropertyName>TIFFANY
            PLAZA</BuildingOrPropertyName>
            <LocationDescriptor>NO 3 TRANSFORMER
            PEAKHURST SUB</LocationDescriptor>
            <House>
              <HouseNumber>95</HouseNumber>
            </House>
            <HouseNumberSuffix>A</HouseNumberSuffix>
          </Address>
        </NMISTandingData>
      </CATSChangeRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>

```

```

        <Lot>
          <LotNumber>911</LotNumber>
        </Lot>
        <Street>
          <StreetName>MACQUARIE
GROVE</StreetName>
          <StreetType>ST</StreetType>
          <StreetSuffix>S</StreetSuffix>
        </Street>
      </StructuredAddress>

    <SuburbOrPlaceOrLocality>MACQUARIE</SuburbOrPlaceOrLocality>
      <StateOrTerritory>NSW</StateOrTerritory>
      <PostCode>9814</PostCode>

    <DeliveryPointIdentifier>1000000</DeliveryPointIdentifier>
      </Address>
      <Status>A</Status>
    </MasterData>
    <RoleAssignments>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>FRMP</Role>
      </RoleAssignment>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>LNSP</Role>
      </RoleAssignment>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>LR</Role>
      </RoleAssignment>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>MDP</Role>
      </RoleAssignment>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>MPB</Role>
      </RoleAssignment>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>MPC</Role>
      </RoleAssignment>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>ROLR</Role>
      </RoleAssignment>
      <RoleAssignment>
        <Party>POOLNSW</Party>
        <Role>RP</Role>
      </RoleAssignment>
    </RoleAssignments>
    <DataStreams>
      <DataStream>
        <Suffix>2T</Suffix>

```

```

        <ProfileName>NSLP</ProfileName>
        <AveragedDailyLoad>20</AveragedDailyLoad>
        <DataStreamType>Consumption</DataStreamType>
        <Status>A</Status>
    </DataStream>
    <DataStream>
        <Suffix>3T</Suffix>
        <ProfileName>NOPROF</ProfileName>
        <AveragedDailyLoad>20</AveragedDailyLoad>
        <DataStreamType>Interval</DataStreamType>
        <Status>A</Status>
    </DataStream>
</DataStreams>
<MeterRegister>
    <Meter>
        <SerialNumber>EDT4L8ECUL7R</SerialNumber>
        <NextScheduledReadDate>2009-07-
29</NextScheduledReadDate>
        <Location>Behind door</Location>
        <Hazard>None</Hazard>

    <InstallationTypeCode>BASIC</InstallationTypeCode>
        <Route>18059</Route>
        <Use>PRIVATE</Use>
        <Point>56</Point>
        <Manufacturer>Metadata</Manufacturer>
        <Model>UUio765</Model>

    <TransformerLocation>Macquarie</TransformerLocation>
        <TransformerType>Alien</TransformerType>

    <TransformerRatio>8.33402777777778</TransformerRatio>
        <Constant>42</Constant>
        <LastTestDate>2009-05-30</LastTestDate>
        <NextTestDate>2009-07-29</NextTestDate>
        <TestResultAccuracy>85</TestResultAccuracy>
        <TestResultNotes>Passed</TestResultNotes>
        <TestPerformedBy>DOWNEY</TestPerformedBy>
        <MeasurementType>KWH</MeasurementType>
        <ReadTypeCode>AUTP</ReadTypeCode>
        <RemotePhoneNumber>88845098</RemotePhoneNumber>

    <CommunicationsEquipmentType>Auto</CommunicationsEquipmentType>

    <CommunicationsProtocol>TCP/IP</CommunicationsProtocol>
        <DataConversion>Logarithm</DataConversion>
        <DataValidations>ere</DataValidations>
        <Status>D</Status>
        <Program>MD5000</Program>
        <AdditionalSiteInformation>Beware of tripping
wires</AdditionalSiteInformation>
        <AssetManagementPlan>Plan for asset
management</AssetManagementPlan>
        <CalibrationTables>Meter Calibration
Tables</CalibrationTables>
        <UserAccessRights>Read Only</UserAccessRights>

```

```

        <TestCalibrationProgram>SMS
Prog</TestCalibrationProgram>
        <RegisterConfiguration>
          <Register>
            <RegisterID>JCLHZ3LGGL</RegisterID>
            <NetworkTariffCode>POOLNSW</NetworkTariffCode>
            <NetworkAdditionalInformation>Automation Testing Process</NetworkAdditionalInformation>
              <UnitOfMeasure>KWH</UnitOfMeasure>
              <TimeOfDay>00:12:00</TimeOfDay>
              <Multiplier>1</Multiplier>
              <DialFormat>5</DialFormat>
              <Suffix>2T</Suffix>
              <ControlledLoad>Permanently
connected load. Supply available for 8 hours between 10 p.m. and 7 a.m.</ControlledLoad>
            <ConsumptionType>Cumulative</ConsumptionType>
              <Demand1>34904113</Demand1>
              <Demand2>62065832</Demand2>
              <Status>C</Status>
          </Register>
        </RegisterConfiguration>
      </Meter>
    </MeterRegister>
  </NMISTandingData>
</CATSChangeRequest>
</Transaction>
</Transactions>
</ase:aseXML>

```

## Error corrections

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions

Element	Procedure name	Type	Procedure use	Schema file
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
	Read Type Code			
<a href="#">ElectricityMeter</a>	NMI	Complex	Required	Electricity
	NMI Checksum			
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Actual End Date	Complex	Optional	Customer Transfer
RoleIdentifier > RoleID	RP	Simple	Optional	Common

## Exchange of datastream information

Element	Procedure name	Type	Procedure use	Schema file
<a href="#">Header</a>	Participant ID	Complex	Required	Header
<a href="#">Transaction</a> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<a href="#">CATSChangeRequest</a> > <a href="#">CATSChangeRequestData</a>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<a href="#">ElectricityMeter</a>	NMI	Complex	Required	Electricity
	NMI Checksum			
<a href="#">ElectricityDataStream</a>	Datastream Type	Complex	Required	Electricity
	NMI Suffix			
	Profile Name			
AveragedDailyLoad	ADL	Simple		
DataStreamType	Datastream Status Code	Simple		
<a href="#">ElectricityMeter</a>	Meter Serial ID	Complex	Optional	Electricity

Element	Procedure name	Type	Procedure use	Schema file
<b>ElectricityMeterRegisterDetail</b>	MDM Contributory Suffix	Complex	Optional	Electricity
	Register ID			
<b>CATSCheckRequest &gt; CATSCheckRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer

## Exchange of metering information

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction &gt; TransactionIdentifier &gt; UniqueIdentifier</b>	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSCheckRequest &gt; CATSCheckRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
	Meter Serial ID			
<b>ElectricityMeter</b>	Meter Manufacturer	Complex	Required	Electricity
	Meter Model		For each meter associated with the NMI where the:	
	Meter Register Status Code		- Meter Register Status Code is C	
	Meter Use		- Information does not exist in MSATS	
	Metering Installation Type Code			

Element	Procedure name	Type	Procedure use	Schema file
<b>ElectricityMeterRegisterDetail</b>	Actual/Cumulative Indicator	Complex	Required For all Register IDs associated with the NMI where the:  - Register Identifier Status Code is C - Information does not exist in MSATS	Electricity
	Controlled Load Indicator			
	Dial Format			
	MDM Contributory Suffix			
	Multiplier Value			
	Network Tariff Code			
	Register ID			
	Register Identifier Status Code			
	Time of Day Code			
Unit of Measure Code				
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Actual End Date	Complex	Optional For retrospective changes	Customer Transfer
<b>ElectricityNMIMasterGroup</b>	Current Transformer Location	Complex	Optional	ElectricityMaster StandingData
	Current Transformer Ratio (available)			
	Current Transformer Ratio (connected)			
	Current Transformer Test Date			
	Current Transformer Type			
	Last Test Date			
	Meter Hazard			
	Meter Location			
	Meter Read Type			
	Network Tariff Code			
	Additional Information			

Element	Procedure name	Type	Procedure use	Schema file
	NSRD			
	Test Result			
	Voltage Transformer Accuracy Class			
	Voltage Transformer Location			
	Voltage Transformer Test			
	Voltage Transformer Test Date			
	Voltage Transformer Type			
	Voltage Transformer Ratio (available and connected)			

## Provide actual change date

Element	procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b> > TransactionIdentifier > UniqueIdentifier	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSDataRequest</b>	Actual Change Date	Complex	Required	Customer Transfer
	Change Reason Code			
	Related Change Request ID			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
RoleIdentifier > RoleID	MDP	Simple	Required	Common

## Reverse – small NMIs

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction</b>	Participant Transaction ID	Attribute > TransactionIdentifier > UniqueIdentifier	Required	Transactions
<b>CATSChangeRequest &gt; CATSChangeRequestData</b>	Change Reason Code	Complex	Required	Customer Transfer
	Proposed Change Date			
	Related Change Request ID			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			

## Update next scheduled read date

Element	Procedure name	Type	Procedure use	Schema file
<b>Header</b>	Participant ID	Complex	Required	Header
<b>Transaction &gt; TransactionIdentifier &gt; UniqueIdentifier</b>	Participant Transaction ID	Attribute	Required	Transactions
<b>CATSDataRequest</b>	Actual Change Date	Complex	Required	Customer Transfer
	Change Reason Code			
<b>ElectricityMeter</b>	NMI	Complex	Required	Electricity
	NMI Checksum			
	Meter Serial ID			
<b>ElectricityNMIMasterGroup</b>	NSRD	Group	Required	ElectricityMaster StandingData

# aseXML Message

The top-level element in all aseXML messages.

Element	Type	Schema file
XML	Version	aseXML
XML	Encoding	
<b>Envelope</b>	Choice:	
	1. Transactions	
	2. Acknowledgements	

The aseXML Message is the container for all transactions.

## Envelope

Used in all aseXML messages. Consists of a header element followed by a payload element. The payload is one or more transactions or acknowledgements.

Element	Type	Schema file
<b>Header</b>	Complex	Header
Payload	Complex > Choice:	Transactions
	1. <b>Transaction</b>	Acknowledgements
	2. <b>Acknowledgements</b>	

## Header

Defines the contents of the aseXML message. Every aseXML message has a header used to indicate information about the message.

Element/procedure name	Type	Schema file
From Participant ID	Element > PartyIdentifier	Header
To Participant ID	Element > PartyIdentifier	
MessageID	Simple > MessageIdentifier	
TransactionGroup	Simple – Enumeration value	

Element/procedure name	Type	Schema file
TransactionPriority	Simple > Priority > enumerated list: - Low - Medium - High	
MessageDate	Element > dateTime	
SecurityContext	Simple > MessageSecurityContext	
Market	Simple – EnergyMarket – Enumeration value Default=NEM	

## Transactions

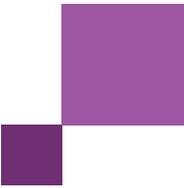
The container for multiple transactions within one aseXML message. Every Transaction message has one or more transactions grouped under this container.

Element	Type	Schema file
Transactions	Complex > Sequence	Transactions
<b>Transaction</b>	Complex > Choice	

## Transaction

The common container for all transactions.

Element/procedure name	Type	Schema file
Participant TransactionID	Attribute > TransactionIdentifier > UniqueIdentifier	<b>Transactions</b>
transactionDate	Attribute > dateTime	
Participant Transaction ID	Attribute > TransactionIdentifier	



## Acknowledgements

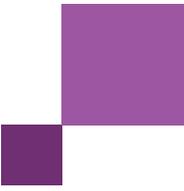
The payload carrying the acknowledgments. Each aseXML message is acknowledged subject to certain rules.

Element	Type	Schema file
<a href="#">MessageAcknowledgement</a>	Complex	Acknowledgements
<a href="#">TransactionAcknowledgement</a>	Complex	

### MessageAcknowledgement

Acknowledge a received message or report errors (errors are reported by Event elements). A message acknowledgment is generated for every message.

Element	Type	Schema file
initiatingMessageID	Attribute > MessageIdentifier	Header
receiptID	Attribute > ReceiptIdentifier	Acknowledgements
receiptDate	Attribute > dateTime	Acknowledgements
Status	Attribute > MessageStatus > Enumeration value: 1. Accept 2. Reject	Acknowledgements
Duplicate	Attribute > Enumeration value: 1. Yes 2. No (default)	Acknowledgements
<a href="#">Event</a>	Element	Events



### Message Acknowledgement example

```

1  <?xml version="1.0"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd"
5  >
6      <Header>
7          <From description="National Electricity Market Management Company">NEMMCO</From>
8          <To description="Energen - LNSP">ENERGEXP</To>
9          <MessageID>NEMMCO-MSG-2875769</MessageID>
10         <MessageDate>2001-10-31T13:20:10.100+10:00</MessageDate>
11         <TransactionGroup>CATS</TransactionGroup>
12         <Priority>Low</Priority>
13         <SecurityContext>zz023</SecurityContext>
14         <Market>NEM</Market>
15     </Header>
16     <Acknowledgements>
17         <MessageAcknowledgement initiatingMessageID="ENERGEX-MSG-11234569" receiptID="NEMMCO-MSGR-1234342"
18         receiptDate="2001-10-31T13:20:10.050+10:00" status="Accept"/>
19     </Acknowledgements>
20 </ase:aseXML>
    
```

### TransactionAcknowledgement

Acknowledge a received transaction or report errors (errors are reported by Event elements). A transaction acknowledgment is generated for every message.

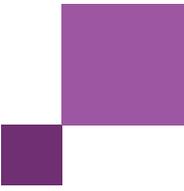
Element	Type	Schema file
initiatingTransactionID	Attribute > TransactionIdentifier	Transactions
receiptID	Attribute > ReceiptIdentifier	Acknowledgements
receiptDate	Attribute > dateTime	Acknowledgements
Status	Attribute > TransactionStatus > enumerated list: 1. Accept 2. Partial 3. Reject	Acknowledgements
Duplicate	Attribute > enumeration value: 1. Yes 2. No (default)	Acknowledgements
acceptedCount	Attribute > NonNegativeInteger	Acknowledgements
<b>Event</b>	Complex > element	Events

## TransactionAcknowledgement example

```

1  <?xml version="1.0"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd"
5  >
6      <Header>
7          <From description="National Electricity Market Management Company">NEMMCO</From>
8          <To description="Energex - LNSP">ENERGEXP</To>
9          <MessageID>NEMMCO-MSG-2875769</MessageID>
10         <MessageDate>2001-10-31T13:20:10.100+10:00</MessageDate>
11         <TransactionGroup>CATS</TransactionGroup>
12         <Priority>Low</Priority>
13         <SecurityContext>zz023</SecurityContext>
14         <Market>NEM</Market>
15     </Header>
16     <Acknowledgements>
17         <MessageAcknowledgement initiatingMessageID="ENERGEX-MSG-11234569" receiptID="NEMMCO-MSGR-1234342"
18             receiptDate="2001-10-31T13:20:10.050+10:00" status="Accept"/>
19         <TransactionAcknowledgement initiatingTransactionID="ENERGEX-TNS-12348990" receiptID="NEMMCO-TNSR-9904567"
20             receiptDate="2001-10-31T13:20:10.070+10:00" status="Accept"/>
21     </Acknowledgements>
22 </ase:aseXML>

```



# Complex types

## AccessContract

Element/procedure name	Type	Schema file
Name	Element > string	Customer Transfer
Date	Element > date	

## CATChangeRequest

Submit a Change Request for a customer transfer to update a subset of Standing Data.

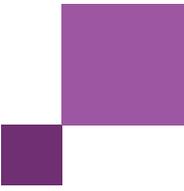
Element	Procedure name	Type	Schema file
<b>CATChangeRequest</b>	Change Request	Complex > choice	Customer Transfer
<b>CATChangeRequestData</b>	n/a	Complex	

## CATChangeRequest example

```

1 | <?xml version="1.0" encoding="UTF-8"?>
2 | <ase:aseXML xmlns:ase="urn:aseXML:r42" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:aseXML:r42
   | http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd">
3 |   <Header>
4 |     <From>AGLUSR</From>
5 |     <To>NAGMO</To>
6 |     <MessageID>SAPAGL_MSG_20150318092851376-2022</MessageID>
7 |     <MessageDate>2015-03-18T09:28:51.204+10:00</MessageDate>
8 |     <TransactionGroup>CATS</TransactionGroup>
9 |     <Market>NSWACTGAS</Market>
10 |   </Header>
11 |   <Transactions>
12 |     <Transaction transactionID="NGAS-REMCO-TNS-16069347" transactionDate="2014-03-18T09:39:38+10:00">
13 |       <CATChangeRequest version="r29">
14 |         <ChangeReasonCode>0001</ChangeReasonCode>
15 |         <ProposedDate>2014-06-04</ProposedDate>
16 |         <NMIStandingData version="r40" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="ase:GasStandingData">
17 |           <NMI checksum="2">5210651169</NMI>
18 |         </NMIStandingData>
19 |       </CATChangeRequest>
20 |     </Transaction>
21 |   </Transactions>
22 | </ase:aseXML>
23 |

```



## CATSChangeRequestData

Element/procedure name	Type	Schema file
Change Reason Code	Element > CATSChangeReasonCode	Customer Transfer
Proposed Change Date	Choice > element > ProposedDate > date	
Actual Change Date	Choice > element > ActualChangeDate > date	
Read Type Code	Element > CATSReadTypeCode	
Actual End Date	Element > ActualEndDate > date	
Participant Transaction ID Related Change Request ID	Element > InitiatingRequestID > CATSRequestIdentifier	
<b>AccessContract</b>	Complex	
<b>NMIStandingData</b>	Complex	Common

## CATSChangeRequestNotificationData

Notification data for a change request.

Element/procedure name	Type	Schema file
Participant ID	Element > PartyIdentifier	Customer Transfer
RequestID	Element > CATSRequestIdentifier	
ChangeStatusCode	Element > CATSChangeStatusCode	
ChangeData	Complex > <b>CATSChangeRequestData</b>	

## CATSChangeWithdrawal

Withdraw a submitted change request.

Element	Type	Schema file
<b>CATSCChangeRequestData</b> - RequestID	Element > CATSRequestIdentifier	Customer Transfer
Version	Attribute	

## CATSCChangeWithdrawal example

```

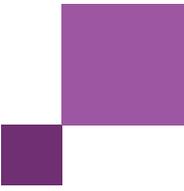
1  <?xml version="1.0"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd"
5  >
6      <Header>
7          <From description="CitiPower - Retailer">CITIP</From>
8          <To description="National Electricity Market Management Company">NEMMCO</To>
9          <MessageID>CITIP-MSG-11234570</MessageID>
10         <MessageDate>2001-04-02T13:20:10.000+10:00</MessageDate>
11         <TransactionGroup>CATS</TransactionGroup>
12         <Priority>Medium</Priority>
13         <SecurityContext>CITIPBATCH</SecurityContext>
14         <Market>NEM</Market>
15     </Header>
16     <Transactions>
17         <Transaction transactionID="CITIP-TNS-12348970" transactionDate="2001-04-02T13:20:09.900+10:00">
18             <CATSCChangeWithdrawal version="r29">
19                 <RequestID>8888888888</RequestID>
20             </CATSCChangeWithdrawal>
21         </Transaction>
22     </Transactions>
23 </ase:aseXML>
24

```

## CATSCChangeResponse

Respond to a submitted **CATS Change Request** for a customer transfer and provide the unique identifier allocated by the system to the request. At least one Event element must be present in the response to indicate the success or otherwise of the change request.

Element	Type	Schema file
CATSCChangeResponse	Complex > choice	Customer Transfer
<b>CATSCChangeRequestData</b> - RequestID	Element > CATSRequestIdentifier	



Element	Type	Schema file
Version	Attribute	
<b>Event</b>	Element	Events

### CATSChangeResponse example

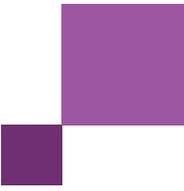
```

1  <?xml version="1.0"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd
5  >
6  <Header>
7      <From description="National Electricity Market Management Company">NEMMCO</From>
8      <To description="CitiPower - Retailer">CITIP</To>
9      <MessageID>NEMMCO-MSG-34567856</MessageID>
10     <MessageDate>2001-03-31T13:20:15.000+10:00</MessageDate>
11     <TransactionGroup>CATS</TransactionGroup>
12     <Priority>Medium</Priority>
13     <SecurityContext>CITIPBATCH</SecurityContext>
14     <Market>NEM</Market>
15 </Header>
16 <Transactions>
17     <Transaction transactionID="NEMMCO-TNS-12343456" transactionDate="2001-03-31T13:20:14.900+10:00"
18     initiatingTransactionID="CITIP-TNS-12348990">
19         <CATSChangeResponse version="r29">
20             <RequestID>8888888888</RequestID>
21             <Event class="Application" severity="Information">
22                 <Code>0</Code>
23             </Event>
24         </CATSChangeResponse>
25     </Transaction>
26 </Transactions>
27 </ase:aseXML>

```

### CATSDataRequest

Element/Procedure name	Type	Schema file
Version	Attribute	Customer Transfer
Role	Simple > RoleIdentifier > RoleID	Common
Role Status	Element > CATSRoleStatus	
InitiatingRequestID	Element > CATSRequestIdentifier	



Element/Procedure name	Type	Schema file
Actual Change Date	Element > ActualChangeDate > date	
NMIStandingData	Complex	

### CATSDataRequest example

```

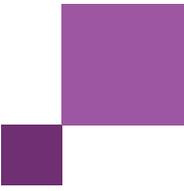
1  <?xml version="1.0"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd
5  >
6  <Header>
7      <From description="National Electricity Market Management Company">NEMMCO</From>
8      <To description="Energex Retail Pty Ltd">ENERGEX</To>
9      <MessageID>NEMMCO-MSG-11234569</MessageID>
10     <MessageDate>2001-10-31T13:20:10.000+10:00</MessageDate>
11     <TransactionGroup>CATS</TransactionGroup>
12     <Priority>Medium</Priority>
13     <SecurityContext>zz023</SecurityContext>
14     <Market>NEM</Market>
15 </Header>
16 <Transactions>
17     <Transaction transactionID="NEMMCO-TNS-12348990" transactionDate="2001-10-31T13:20:09.900+10:00">
18         <CATSDataRequest version="r29">
19             <Role>LNSP</Role>
20             <RoleStatus>C</RoleStatus>
21             <InitiatingRequestID>132457687654321</InitiatingRequestID>
22             <NMIStandingData xsi:type="ase:ElectricityStandingData">
23                 <NMI>1234567890</NMI>
24                 <MasterData>
25                     <DistributionLossFactorCode xsi:nil="true"/>
26                 </MasterData>
27             </NMIStandingData>
28         </CATSDataRequest>
29     </Transaction>
30 </Transactions>
31 </ase:aseXML>
32

```

### CATSOjectionData

Data provided for a Change Request objection. For Objection Codes, see the [MSATS procedures - CATS](#).

Element/procedure name	Type	Schema file
Participant Transaction ID	Element > CATSRequestIdentifier	Customer Transfer
Role	Simple > RoleIdentifier > RoleID	



Element/procedure name	Type	Schema file
ObjectionCode	Element > CATSObjectionCode	

## CATSObjectionNotificationData

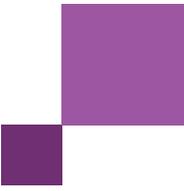
Objection data provided on a notification.

Element/procedure name	Type	Schema file
Participant ID	Element > PartyIdentifier	Customer Transfer
ObjectionID	Element > CATSObjectionIdentifier	
ObjectionAction	Element > CATSObjectionAction: 1. Raised 2. Withdrawn	
ObjectionData	Complex > <a href="#">CATSObjectionData</a>	
ObjectionDate	Element > ObjectionDate > date	

## CATSObjectionRequest

Submit an objection request.

Element	Type	Schema file
<a href="#">CATSObjectionData</a>	Complex	Customer Transfer
Version	Attribute	



### CATSOBJECTIONREQUEST example

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42" xmlns:xsi="
   http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:aseXML:r42
   http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd
3  ">
4  <Header>
5      <From description="TXU Retail">TXUR</From>
6      <To description="Vencorp">VENCORP</To>
7      <MessageID>AAA</MessageID>
8      <MessageDate>2002-01-01T12:00:00</MessageDate>
9      <TransactionGroup>CATS</TransactionGroup>
10     <Priority>Medium</Priority>
11     <Market>VICGAS</Market>
12 </Header>
13 <Transactions>
14 <Transaction transactionID="ZZZ" transactionDate="2002-01-01T12:00:00">
15     <CATSOBJECTIONREQUEST version="r29">
16         <InitiatingRequestID>1234</InitiatingRequestID>
17         <Role>CFRO</Role>
18         <ObjectionCode>AGEDDEBT</ObjectionCode>
19     </CATSOBJECTIONREQUEST>
20 </Transaction>
21 </Transactions>
22 </ase:aseXML>

```

### CATSOBJECTIONRESPONSE

Respond to submitting an objection request and provide the unique identifier allocated by the system to the objection. At least one Event element must be present in the response to indicate the success or otherwise of the objection request

Element	Type	Schema file
<b>CATSCheckRequestData</b> - ObjectionID	Element > CATSOBJECTIONIDENTIFIER	Customer Transfer
Version	Attribute	
<b>Event (element)</b>	Element	Events

## CATSOBJECTIONResponse example

```

1  <?xml version="1.0" ?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation
   = "urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd">
3  <Header>
4  <From description="Australian Energy Market Operator Limited">NEMMCO</From>
5  <To description="Energy Distribution Pty Ltd">ED</To>
6  <MessageID>NEMMCO-MSG-1037918614</MessageID>
7  <MessageDate>2022-11-10T15:09:34+10:00</MessageDate>
8  <TransactionGroup>CATS</TransactionGroup>
9  <Priority>Medium</Priority>
10 <SecurityContext>NEMMCOBATCH</SecurityContext>
11 <Market>NEM</Market>
12 </Header>
13 <Transactions>
14 <Transaction transactionID="OBJT-4189443" transactionDate="2022-11-10T15:09:34+10:00" initiatingTransactionID="
   MTS_682227840">
15 <CATSOBJECTIONResponse version="r29">
16 <ObjECTIONID>2961049</ObjECTIONID>
17 <Event severity="Information">
18 <Code>0</Code>
19 </Event>
20 </CATSOBJECTIONResponse>
21 </Transaction>
22 </Transactions>
23 </ase:aseXML>

```

## CATSOBJECTIONWithdrawal>

Element	Type	Schema file
ObjECTIONID	Element > CATSOBJECTIONIdentifier	Customer Transfer
<b>CATSCheckRequestData</b>	Element > CATSRequestIdentifier	
- InitiatingRequestID		
Role	Simple > RoleIdentifier > RoleID	
ObjECTIONCode	Element > CATSOBJECTIONCode	
Version	Attribute	

## CATSOjectionWithdrawal example>

```

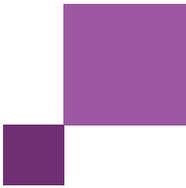
1  <?xml version="1.0"?>
2  <ase:aseXML xmlns:ase="urn:aseXML:r42"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="urn:aseXML:r42 http://www.nemmco.com.au/aseXML/schemas/r42/aseXML_r42.xsd"
5  >
6      <Header>
7          <From description="Energex - Retailer">ENERGEX</From>
8          <To description="National Electricity Market Management Company">NEMMCO</To>
9          <MessageID>ENERGEX-MSG-11234570</MessageID>
10         <MessageDate>2001-04-01T09:45:53.000+10:00</MessageDate>
11         <TransactionGroup>CATS</TransactionGroup>
12         <Priority>Medium</Priority>
13         <SecurityContext>ENERGEXBATCH</SecurityContext>
14         <Market>NEM</Market>
15     </Header>
16     <Transactions>
17         <Transaction transactionID="ENERGEX-TNS-12348991" transactionDate="2001-04-01T09:45:52.900+10:00">
18             <CATSOjectionWithdrawal version="r29">
19                 <ObjectionID>999999999</ObjectionID>
20                 <InitiatingRequestID>888888888</InitiatingRequestID>
21                 <Role>FRMP</Role>
22                 <ObjectionCode>BADDEBT</ObjectionCode>
23             </CATSOjectionWithdrawal>
24         </Transaction>
25     </Transactions>
26 </ase:aseXML>
27

```

## ElectricityDataStream

Schema file: Electricity.

Element/procedure name	Type
Datastream Type	Element > string
NMI Suffix	Element > Suffix > NMIDataStreamSuffix
Profile Name	Element > string

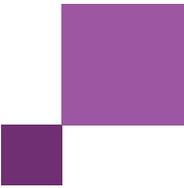


## ElectricityMeter

Schema file: Electricity.

Element/procedure name	Type
Actual/Cumulative Indicator	Element > MeterConsumptionType > enumeration: - Actual - Cumulative
Additional Site Information	Element > MeterAdditionalSiteInformation
Controlled Load Indicator	Element > MeterControlledLoad
Current Transformer Accuracy Class	Element > CurrentTransformerAccuracyClass
Current Transformer Location	Element > CurrentTransformerLocation
Current Transformer Ratio Available	Element > CurrentTransformerRatioAvailable
Current Transformer Ratio Connected	Element > CurrentTransformerRatioConnected
Current Transformer Test	Element > CurrentTransformerTest
Current Transformer Test Date	Element > CurrentTransformerTestDate
Current Transformer Type	Element > CurrentTransformerType
Dial Format	Element > MeterDialFormat
GPS Coordinates – Latitude GPS Coordinates - Longitude	Element > GPSCoordinates > GeographicCoordinate
Last Test Date	Element > LastTestDate
Meter Hazard	Element > MeterHazard
Meter Location	Element > MeterLocation
Meter Manufacturer	Element > MeterManufacturer
Meter Model	Element > MeterModel
Meter Point	Element > MeterPoint
Meter Register Status Code	Element > MeterStatusCode > enumeration: - C - D - R
Meter Route	Element > MeterRoute

Element/procedure name	Type
Meter Serial ID	Element > MeterSerialNumber
Meter Use	Element > MeterUse
Metering Installation Type Code	Element > MeterInstallationTypeCode
Multiplier Value	Element > MeterMultiplier
Network Tariff Code	Element > NetworkTariffCode
NSRD	Element > NextScheduledReadDate > date
Read Type Code	Element > MeterReadTypeCode
Register ID	Element > MeterRegisterIdentifier
Register Identifier Status Code	Element > MeterRegisterStatusCode > enumeration: - C - R
Test Result	Element > MeterTestResult
Time of Day Code	Element > MeterTimeOfDay
Unit of Measure Code	Element > MeterUnitOfMeasure
Voltage Transformer Accuracy Class	Element > VoltageTransformerAccuracyClass
Voltage Transformer Location	Element > VoltageTransformerLocation
Voltage Transformer Ratio	Element > VoltageTransformerRatio
Voltage Transformer Test	Element > TransformerTest
Voltage Transformer Test Date	Element > VoltageTransformerTestDate > date
Voltage Transformer Type	Element > VoltageTransformerType



## ElectricityMeterRegisterDetail

Schema file: Electricity.

Element/procedure name	Type
Actual/Cumulative Indicator	Element > MeterConsumptionType > enumeration: - Actual - Cumulative
Additional Site Information	Element > MeterAdditionalSiteInformation
Controlled Load Indicator	Element > MeterControlledLoad
Dial Format	Element > MeterDialFormat
Metering Installation Type Code	Element > MeterInstallationTypeCode
Network Tariff Code	Element > NetworkTariffCode
Network Tariff Code Additional Information	Element > MeterNetworkAdditionalInformation
Register ID	Element > MeterRegisterIdentifier
Register Identifier Status Code	Element > MeterRegisterStatusCode > enumeration: - C - R
Time of Day Code	Element > MeterTimeOfDay
Unit of Measure Code	Element > MeterUnitOfMeasure

## ElectricityNMIMasterGroup

Schema file: ElectricityMasterStandingData.

Element/procedure name	Type
Building Name	Element > AustralianBuildingOrPropertyName
Child Name	Element > EmbeddedNetworkIdentifier
Connection Configuration	Element > ConnectionConfiguration
Customer Threshold Code	Element > EMSDCustomerThresholdCode
DLF Code	Element > DistributionLossFactorCode

Element/procedure name	Type
DP Number	Element > DepositedPlanNumber
DPID	Element > AustralianDeliveryPointIdentifier
Embedded Network Parent Name	Element > ParentEmbeddedNetworkIdentifier
Feeder Class	Element > FeederClass
Flat Number	Element > AustralianFlatOrUnitNumber
Flat Type	Element > AustralianFlatOrUnitType
Floor Number	Element > AustralianFloorOrLevelNumber
Floor Type	Element > FloorOrLevelType
GNAF PID	Element > GeocodedNationalAddressFilePersistentIdentifier
House Number	Element > AustralianHouseNumber
House Number Suffix	Element > AustralianHouseNumberSuffix
House Number To	Element > AustralianHouseNumber
House Number To Suffix	Element > AustralianHouseNumberSuffix
Jurisdiction Code	Element > JurisdictionCode
Locality	Element > AustralianSuburbOrPlaceOrLocality
Location Descriptor	Element > AustralianLocationDescriptor
Lot Number	Element > AustralianLotNumber
NMI Classification Code	Element > NMIClassificationCode
NMI Status Code	Element > NMIStatusCode
Parent Name	Element > EmbeddedNetworkIdentifier
Postcode	Element > AustralianPostCode
Section Number	Element > SectionNumber
Shared Isolation Point Flag	Element > SharedIsolationPointFlag
State	Element > AustralianStateOrTerritory
Street Name	Element > AustralianStreetName
Street Suffix	Element > AustralianStreetSuffix

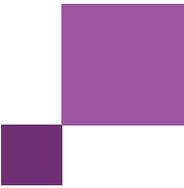
Element/procedure name	Type
Street Type	Element > AustralianStreetType
TNI Code	Element > TransmissionNodeIdentifier

## ElectricityNMI MeterGroup

Schema file: CATSTableReplication.

Element/procedure name	Type
Additional Site Information	Element > MeterAdditionalSiteInformation
Asset Management Plan	Element > MeterAssetManagementPlan
Calibration Tables	Element > MeterCalibrationTables
Communications Equipment Type	Element > MeterCommunicationsEquipmentType
Communications Protocol	Element > MeterCommunicationsProtocol
Current Transformer Accuracy Class	Element > CurrentTransformerAccuracyClass
Current Transformer Location	Element > CurrentTransformerLocation
Current Transformer Ratio Available	Element > CurrentTransformerRatioAvailable
Current Transformer Ratio Connected	Element > CurrentTransformerRatioConnected
Current Transformer Test	Element > TransformerTest
Current Transformer Test Date	Element > CurrentTransformerTestDate > date
Current Transformer Type	Element > CurrentTransformerType
Customer Funded Meter	Element > CustomerFundedMeter
Data Conversion	Element > MeterDataConversion
Data Validations	Element > MeterDataValidations
Estimation Instructions	Element > MeterEstimationInstructions
GPS Coordinates - Latitude	Element > GeographicCoordinate
GPS Coordinates - Longitude	
Hazard	Element > MeterHazard
Installation Type Code	Element > MeterInstallationTypeCode

Element/procedure name	Type
Key Code	Element > KeyCode
Last Test Date	Element > LastTestDate > date
Location	Element > MeterLocation
Manufacturer	Element > MeterManufacturer
Measurement Type	Element > MeterMeasurementType
Meter Manufacturer	Element > Meter Manufacturer
Meter Model	Element > Meter Model
Model	Element > MeterModel
Next Test Date	Element > NextTestDate > date
NMI Status Code	Element > NMIStatusCode
NSRD	Element > NextScheduledReadDate > date
Password	Element > MeterPassword
Point	Element > MeterPoint
Program	Element > MeterProgram
Read Type Code	Element > MeterReadTypeCode
Remote Phone Number	Element > MeterRemotePhoneNumber
Route	Element > MeterRoute
Serial Number	Element > MeterSerialNumber
Test Calibration Program	Element > MeterTestCalibrationProgram
Test Performed By	Element > MeterTestPerformedBy
Test Result	Element > MeterTestResult
Test Result Accuracy	Element > MeterTestResultAccuracy
Test Result Notes	Element > MeterTestResultNotes
Transformer Location	Element > MeterTransformerLocation
Transformer Type	Element > MeterTransformerType
TransformerRatio	Element > MeterTransformerRatio
Use	Element > MeterUse

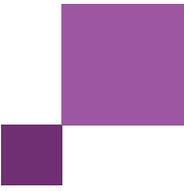


Element/procedure name	Type
Voltage Transformer Accuracy Class	Element > VoltageTransformerAccuracyClass
Voltage Transformer Location	Element > VoltageTransformerLocation
Voltage Transformer Ratio	Element > VoltageTransformerRatio
Voltage Transformer Test	Element > TransformerTest
Voltage Transformer Test Date	Element > VoltageTransformerTestDate > date
Voltage Transformer Type	Element > VoltageTransformerType

## ElectricityNMI MeterRegisterGroup

Schema file: Electricity.

Element/procedure name	Type
Consumption Type	Element > MeterConsumptionType
Controlled Load Indicator	Element > MeterControlledLoad
Dial Format	Element > MeterDialFormat
Meter Register Status Code	Element > MeterRegisterStatusCode > enumeration: - C - R
Multiplier Value	Element > MeterMultiplier
Network Tariff Code	Element > NetworkTariffCode
Network Tariff Code Additional Information	Element > MeterNetworkAdditionalInformation
Register ID	Element > MeterRegisterIdentifier
Serial Number	Element > MeterSerialNumber
Suffix	Element > NMIDataStreamSuffix
Time of Day Code	Element > MeterTimeOfDay
Unit of Measure Code	Element > MeterUnitOfMeasure



## Event

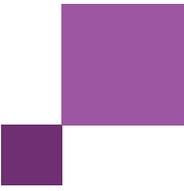
Schema file: Events.

Element/procedure name	Type
Class	Complex > EventClass 1. Application (default) 2. Message 3. Processing
Code	Complex > EventCode > EventCodeBase
Context	Simple > EventContext
Explanation	Element > string
KeyInfo	Simple > EventKeyInfo
Severity	Simple > EventSeverity > enumerated list: 1. Error 2. Fatal (default) 3. Information 4. Warning
SupportedVersions	Complex > EventSupportedVersions > ReleaseIdentifier

## NMI

Schema file: Common.

Element	Type
NMIBase	Simple
NMIchecksum	Simple



## NMIStandingData

Schema file: Common.

Element/procedure name	Type
effectiveDateTime	Attribute > dateTime
<b>NMI</b>	Complex

# Needing Help

## AEMO's Support Hub

IT assistance is requested through one of the following methods:

- Phone: 1300 AEMO 00 (1300 236 600)

For non-urgent issues, normal coverage is 8:00 am to 6:00 pm on weekdays, Australian Eastern Standard Time (AEST).

- The **Contact Us** form on AEMO's website.

### Information to provide

Please provide the following information when requesting assistance from AEMO:

- Your contact details
- Company name
- Company ID
- System or application name
- Environment: production or pre-production
- Problem description
- Screenshots

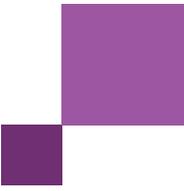
For AEMO software-related issues please also provide:

- Participant ID (if Data Interchange (DI) problem)
- Version of software
- Properties or log files
- PDR Monitor support dump and DI instance name (if DI problem)

### Resolver group

For aseXML support ask the Support Hub to direct your ticket to **Retail System Support**.

**AEMO recommends participants call AEMO's Support Hub for all urgent issues, even if you have logged a call using the contact us form.**



# Terms

You can find glossary terms in the:

- [Retail Electricity Market Procedures - Glossary and Framework](#)
- [Industry terminology](#) on AEMO's website.

# Index

## A

AccessContract, 58  
Acknowledgements, 55  
Advanced change metering installation details, 8  
Advanced exchange of metering, 10  
aseXML Development Guidelines, 4  
aseXML Document Samples, 4  
aseXML Standards, 4

## B

Backdate NMI, 13

## C

CATSChangeRequest, 58  
CATSChangeRequest example, 58  
CATSChangeRequestData, 59  
CATSChangeRequestNotificationData, 59  
CATSChangeResponse, 60  
CATSChangeResponse example, 61  
CATSChangeWithdrawal, 59  
CATSChangeWithdrawal example, 60  
CATSDataRequest, 61  
CATSDataRequest example, 62  
CATSObjectionData, 62  
CATSObjectionNotificationData, 63  
CATSObjectionRequest, 63  
CATSObjectionRequest example, 64  
CATSObjectionResponse, 64  
CATSObjectionResponse example, 65  
CATSObjectionWithdrawal, 65  
CATSObjectionWithdrawal example, 66  
Change ENLR – child NMI, 15  
Change LNSP, 15  
Change MC, 16  
Change MDP, 17  
Change metering installation details, 17  
Change MPB or MPC or both, 19  
Change multiple roles, 20  
Change network tariff code, 21  
Change NMI, 21  
Change NMI – customer classification code, 23  
Change NMI – customer classification code 5054 example, 24  
Change NMI – last consumer change date, 27  
Change NMI datastream, 24  
Change NMI embedded network – child, 25  
Change parent name, 28  
Change retailer, 28  
Change ROLR, 29  
Create child NMI, 29

Create child NMI, metering installation details and MDM datastream, 31  
Create metering installation details, 35  
Create NMI, 37  
Create NMI datastream, 39  
Create NMI, metering installation details and NMI datastream, 40  
Create NMI, metering installation details and NMI datastream 2501 example, 44

## E

ElectricityDataStream, 66  
ElectricityMeter, 67  
ElectricityMeterRegisterDetail, 69  
ElectricityNMIMasterGroup, 69  
ElectricityNMIMeterGroup, 71  
ElectricityNMIMeterRegisterGroup, 73  
Envelope, 53  
Error corrections, 47  
Event, 74  
Exchange of datastream information, 48  
Exchange of metering information, 49

## H

Header, 53

## M

Message Acknowledgement example, 56  
MessageAcknowledgement, 55  
MSATS procedures - CATS, 4

## N

NMI, 74  
NMISstandingData, 75

## P

Provide actual change date, 51

## R

Resolver group, 76  
Retail System Support, 76  
Reverse – small NMIs, 52

## T

Technical Guide to MSATS, 4  
Transaction, 54

## Important notice

TransactionAcknowledgement, 56  
TransactionAcknowledgement example, 57  
Transactions, 54

## U

Update next scheduled read date, 52

## W

W3C XML Technology Standards, 4