

NTESMO
**Standing Data for Market
Settlement and Transfer
Solution (MSATS)**

Contents

1.	Introduction	6
1.1.	Purpose and scope	6
1.2.	Definitions and interpretation	6
1.3.	Related documents	6
2.	BACKGROUND	6
3.	Conventions used within this document	7
3.1.	Column Headed: Standing Data Required	7
3.2.	NMIs Affected	7
4.	CATS_METER_REGISTER	8
4.1.	Field Definitions	8
4.2.	Cross Reference of Browser and aseXML Data Elements	13
4.3.	Field value examples	16
5.	CATS_DLF_CODES	18
5.1.	Field Definitions	18
5.2.	Cross Reference of Browser and aseXML Data Elements	19
5.3	Field value examples	20
6.	CATS_EMB_NET_ID_CODES	21
6.1.	Field Definitions	21
6.2.	Cross Reference of Browser and aseXML Data Elements	23
6.3.	Field value examples	24
7.	CATS_NMI_DATA	25
7.1.	Field Definitions	25
7.2.	Cross Reference of Browser and aseXML Data Elements	28
7.3.	Field value examples	32
8.	Not used in the NT Procedures	34
9.	CATS_Register_identifier	35
9.1.	Field Definitions	35
9.2.	Cross Reference of Browser and aseXML Data Elements	37

Table 10	CATS_Emb_Net_ID_Codes - Browser Cross Reference.....	23
Table 11	CATS_Emb_Net_ID_Codes - Example.....	24
Table 12	CATS_NMI_DATA – Field Definitions	25
Table 13	CATS_NMI_Data.....	29
Table 14	CATS_NMI_Data Field value examples	32
Table 18	CATS_REGISTER_IDENTIFIER – Field Definitions	35
Table 19	CATS_Register_Identifier - Browser Cross Reference	37
Table 20	CATS_Register_Identifier - Example	39
Table 21	CATS_NMI_PARTICIPANT_RELATIONS – Field Definitions.....	40
Table 22	CATS_NMI_Participant_Relations - Browser Cross Reference	42
Table 23	- Valid Aggregate Codes.....	43
Table 24	- Valid Consumption Type Codes.....	43
Table 25	- Not used in the NT Procedures.....	0
Table 26	- Not used in the NT Procedures.....	0
Table 27	Valid Transformer Fields values	0
Table 28	Valid Meter Use Codes	7
Table 29	Valid Time of Day Codes.....	8
Table 30	Valid Controlled Load Codes.....	8
Table 31	Valid Test Result Codes.....	8
Table 32	Valid Transformer Test Values.....	8
Table 33	Valid Shared Isolation Point Flag Values	8
Table 35	Example CATS_REGISTER_IDENTIFIER.....	10
Table 37	Example CATS_REGISTER_IDENTIFIER.....	10
Table 39	Example CATS_REGISTER_IDENTIFIER.....	11
Table 41	Example CATS_REGISTER_IDENTIFIER.....	11
Table 43	Example CATS_REGISTER_IDENTIFIER.....	11
Table 45	Example CATS_REGISTER_IDENTIFIER.....	11
Table 47	Example CATS_REGISTER_IDENTIFIER	12
Table 49	Example CATS_REGISTER_IDENTIFIER.....	12
Table 51	Example CATS_REGISTER_IDENTIFIER.....	13
Table 53	Example CATS_REGISTER_IDENTIFIER.....	13
Table 56	BROWSER FORMATS.....	13

FIGURES

No table of figures entries found.

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- All *distribution network connection points* where there is a *market load*.

4. CATS_METER_REGISTER

4.1. Field Definitions

The CATS_Meter_Register table is a NMI master table containing data that is stored at the Meter Register level. Information stored at this level includes the NSRD. It is updated whenever a Change Request containing inbound Meter Register data is completed.

Table 3 CATS_METER_REGISTER – Field Definitions

Data Element Name	Description	Standing Data Required	Party to Provide
CurrentTransformerLocation	A free text field to indicate the location of the current transformer at the site.	REQUIRED	MPB
CurrentTransformerType	Whether the current transformer at the metering installation is single phase or three phase. This value must correspond to a valid Current Transformer Type value in the Valid Transformer Fields values reference table listed in section 11.	REQUIRED	MPB
CurrentTransformerRatioAvailable	The available ratio of the current transformer at the metering installation. This value must correspond to a valid Current Transformer Ratio (Available) value in the Valid Transformer Fields values reference table listed in section 11.	REQUIRED	MPB
CurrentTransformerRatioConnected	The connected ratio of the current transformer at the metering installation. This value must correspond to a valid Current Transformer Ratio (Connected) value in the Valid Transformer Fields values reference table listed in section 11.	REQUIRED	MPB
CurrentTransformerAccuracyClass	The accuracy class of the current transformer at the metering installation. This value must correspond to a valid Current Transformer Accuracy Class value in the Valid Transformer Fields values reference table listed in section 11.	REQUIRED	MPB
CurrentTransformerTest	Type of test performed on metering installation with Current Transformer which can be one of the following: <ul style="list-style-type: none"> TESTED(definition – part of 100% testing) SAMPLE TESTED (definition – tested as part of a sample plan) SAMPLE (definition – part of an approved sample plan) This value must correspond to a valid transformer test value in the Valid Transformer Test Values reference table listed in section 11.	REQUIRED	MPB
CurrentTransformerTestDate	A date that represents actual test date for metering installations with Current Transformer tested or date represents family expiry date for those included in an approved sample plan.	REQUIRED	MPB

Data Element Name	Description	Standing Data Required	Party to Provide
GPSCoordinatesLat	<p>GPS Coordinates Latitude is the angular measurement North or South of the equator in decimal degrees (5-7 decimal places). Angles South of the equator will be represented as negative values. E.g. -37.8886755. It is the latitude of the metering installation and not of the site.</p>	<p>For NMIs with manually read meters: REQUIRED for 36 months from effective date of these Procedures, MANDATORY thereafter.</p> <p>For NMIs with remotely read meters: MANDATORY for new NMIs established from the effective date of these Procedures and all NMIs when they have a physical field site visit, REQUIRED for all other NMIs.</p> <p>Where no GPS coverage is available, a value of 0.0000 (5-7 decimal places) is to used.</p> <p>Not Used for NMIS for Type 7.</p>	MPB
GPSCoordinatesLong	<p>GPS Coordinates Longitude is the angular measurement East or West of the prime meridian in decimal degrees (5-7 decimal places). Angles East of the Prime Meridian (e.g. Australia) will be represented as positive values. E.g. +145.1410361. It is the longitude of the metering installation and not of the site.</p>	<p>For NMIs with manually read meters: REQUIRED for 36 months from effective date of these Procedures, MANDATORY thereafter.</p> <p>For NMIs with remotely read meters: MANDATORY for new NMIs established from the effective date of these Procedures and all NMIs when they have a physical field site visit, REQUIRED for all other NMIs.</p> <p>Where no GPS coverage is available, a value of 0.0000 (5-7 decimal places) is to used.</p> <p>Not Used for NMIS for Type 7.</p>	MPB

Data Element Name	Description	Standing Data Required	Party to Provide
LastTestDate	The date on which the <i>metering installation</i> was last tested or inspected by the Metering Provider "B".	REQUIRED	MPB
Hazard	Free text or code identifying hazards associated with reading, maintaining or installing the <i>meter</i> . If the following are present at the <i>metering installation</i> , they should be listed in this field: Asbestos	REQUIRED	MPB
InstallationTypeCode	The InstallationTypeCode may identify attributes of a physical <i>metering installation</i> , <i>metering data</i> collection methods or <i>metering data</i> calculation methods. This value must correspond to a valid Meter Installation Type Code as referenced in NT MSATS Procedures: CATS Procedures.	MANDATORY	MPB
Location	Free text descriptive material identifying the relationship between the location of the <i>metering point</i> and the <i>connection point</i> .	REQUIRED	MPB
Manufacturer	Free text field to identify the manufacturer of the installed <i>meter</i> . This field will be an enumerated list of values corresponding to current Meter Manufacturers in the industry with the options of UNMETERED and UNKNOWN.	MANDATORY	MPB
Model	Free text field to identify the <i>meter</i> manufacturer's designation for the <i>meter</i> model. This field will be an enumerated list of values corresponding to current Meter Models in the industry with the options of UNMETERED and UNKNOWN.	MANDATORY	MPB

Data Element Name	Description	Standing Data Required	Party to Provide
ReadTypeCode	<p>Code to denote the method and frequency of Meter Reading.</p> <p>First Character = Remote (R) or Manual (M);</p> <p>Second Character = Mode</p> <p>T = telephone</p> <p>W = wireless</p> <p>P = powerline</p> <p>I = infra-red</p> <p>G = galvanic V</p> <p>= visual</p> <p>Third Character = Frequency of Scheduled Meter Readings</p> <p>1 = Twelve times per year</p> <p>2 = Six times per year</p> <p>3 = Four times per year</p> <p>D = Daily or weekly</p> <p>Fourth Character =</p> <ul style="list-style-type: none"> o A – 5 minute o B – 15 minute o C – 30 minute o D – Cannot convert to 5-minute (i.e. due to metering installation de-energised) o M - Manually Read Accumulation Meter <p>For example, MV3M = Manual, Visual, Quarterly, Manually Read Accumulation Meter; RWDC = Remote, Wireless, Daily, 30 minutes interval, RWD = Remote, Wireless, Daily (applicable for Vic AMI <i>metering installations</i> where InstallationTypeCode = 'MRIM' and JurisdictionCode = 'Victoria').</p>	REQUIRED	MPB
SerialNumber	<p>The Meter Serial ID uniquely identifies a <i>meter</i> for a given <i>NMI</i>. Maximum 12 Characters (alpha numeric). Unique for <i>NMI</i>.</p> <p>Use dummy for UMCP (Type 7), logical (meters) and <i>non-contestable unmetered loads</i>.</p> <p>Except for UMCP, SerialNumber should be as displayed on the physical device (also known as property number).</p> <p>SerialNumber to be property number if exists, otherwise the <i>meter</i> manufacturer's serial number, otherwise dummy number.</p>	MANDATORY	MPB
Status	<p>A code to denote the status of the <i>meter</i>.</p> <p>This value must correspond to a valid Meter Register Status as specified in the NT MSATS Procedures: CATS Procedures.</p>	MANDATORY	MPB
Use	<p>A code identifying how the <i>meter</i> is used. This value must correspond to a valid Meter Use value in the Valid Meter Use Codes reference table listed in section 11.</p>	MANDATORY	MPB

Data Element Name	Description	Standing Data Required	Party to Provide
NextScheduledReadDate	Indicates the Scheduled Next Read Date for the <i>meter</i> if a manual Meter Reading is required.	MANDATORY for manually read meters, REQUIRED for Type 7 metering installations with calculated metering data where the forward estimate process is using a BLOCK methodology, and NOT USED for remotely read meters =	MPB initially, then MDP for updates
NMI	<i>NMI</i> . This number is unique for each <i>connection point</i> within the <i>NEM</i> .	MANDATORY	LNSP
TestResult	The result from the test performed on the date indicated in the LastTestDate field. This value must correspond to a valid Test Result value in the Valid Test Result Codes reference table listed in section 11.	REQUIRED	MPB
VoltageTransformerLocation	A free text field to indicate the location of the voltage transformer at the site.	REQUIRED	MPB
VoltageTransformerType	Whether the voltage transformer at the metering installation is single phase or three phase. This value must correspond to a valid Voltage Transformer Type value in the Valid Transformer Fields values reference table listed in section 11.	REQUIRED	MPB
VoltageTransformerRatio	The available or connected ratio of the voltage transformer at the metering installation. This value must correspond to a valid Voltage Transformer Ratio value in the Valid Transformer Fields values reference table listed in section 11.	REQUIRED	MPB
VoltageTransformerAccuracyClass	The accuracy class of the voltage transformer at the metering installation. This value must correspond to a valid Voltage Transformer Type value in the Valid Transformer Fields values reference table listed in section 11.	REQUIRED	MPB
VoltageTransformerTest	Type of test performed on metering installation with Voltage Transformer which can be one of the following: <ul style="list-style-type: none"> TESTED(definition – part of 100% testing) SAMPLE TESTED (definition – tested as part of a sample plan) SAMPLE (definition – part of an approved sample plan) This value must correspond to a valid transformer test value in the Valid Transformer Test Values reference table listed in section 11.	REQUIRED	MPB
VoltageTransformerTestDate	A date that represents actual test date for metering installation with Voltage Transformer tested or date represents family expiry date for those included in an approved sample plan.	REQUIRED	MPB
FromDate	Start date of the record. This indicates the date on which the parameters of this particular record apply from. The data applies from the beginning of this date (the start of the day, i.e. 00:00).	MANDATORY	Participant sending transaction

Data Element Name	Description	Standing Data Required	Party to Provide
ToDate	End date of the record. This indicates the date on which the parameters of this particular record end. The data applies until the end of this date (the end of the day, i.e. 23:59). A default date of 9999-12-31 is recorded if EndDate is not provided.	MANDATORY (Defaults to high date unless supplied)	System generated unless supplied.
RowStatus	Indicates whether the record is active or inactive. Whenever a new record is created, it will be A (Active). A change to the data will make this record redundant and its MaintActFlg is changed to I (Inactive).	MANDATORY	System generated
MaintenanceDate	Date and time the record was updated. A default date of 9999-12-31 is used when the record is created initially. If the record is subsequently updated, its MaintUpdtDt is changed to the date and time the record was updated.	MANDATORY	System generated
CreationDate	Date and time the record was created.	MANDATORY	System generated

4.2. Cross Reference of Browser and aseXML Data Elements

The table below lists the names that are used in the MSATS browser. The table also provides the aseXML data element names and the respective formats used in each context.

In some cases, such as date fields, the format of the field is shown differently in the Browser to that used in the related aseXML transactions. Also, aseXML uses full words throughout, rather than the coded values used in the Browser.

Section 16 provides data type conventions of the Browser formats shown in this section.

Table 4 CATS_Meter_Register – Browser Cross Reference

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Current Transformer Location	CurrentTransformerLocation	ElectricityMeter/CurrentTransformerLocation	VARCHAR(50)	xsd:string maxLen = 50
Current Transformer Type	CurrentTransformerType	ElectricityMeter/CurrentTransformerType	VARCHAR(20)	xsd:string maxLen = 20
Current Transformer RatioAvailable	CurrentTransformerRatio	ElectricityMeter/CurrentTransformerRatioAvailable	VARCHAR(50)	xsd:string maxLen = 50
Current Transformer RatioConnected	CurrentTransformerRatio	ElectricityMeter/CurrentTransformerRatioConnected	VARCHAR(20)	xsd:string maxLen = 20

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Current Transformer Accuracy Class	CurrentTransformerAccuracyClass	ElectricityMeter/CurrentTransformerAccuracyClass	VARCHAR(50)	xsd:string maxLen = 50
Current Transformer Test	CurrentTransformerTest	ElectricityMeter/CurrentTransformerTest	VARCHAR2(20)	xsd:string maxLen = 20
Current Transformer Test Date	CurrentTransformerTestDate	ElectricityMeter/LastTestDate	dd-mmm-yyyy	xsd:date
GPS Coordinates - Latitude	GPSCoordinatesLat	ElectricityMeter/GPSCoordinatesLat	NUMERIC (s2.7)	xsd:decimal minIncl = -99.9999999 maxIncl = 99.9999999 totdig = 2 fracdig = 7
GPS Coordinates - Longitude	GPSCoordinatesLong	ElectricityMeter/GPSCoordinatesLong	NUMERIC (s3.7)	xsd:decimal minIncl = 0 maxIncl = 999.9999999 totdig = 3 fracdig = 7
Last Test Date	LastTestDate	ElectricityMeter/LastTestDate	dd-mmm-yyyy	xsd:date
Meter Hazard	Hazard	ElectricityMeter/Hazard	VARCHAR2(100)	xsd:string maxLen = 100
Meter Installation Type Code	InstallationTypeCode	ElectricityMeter/InstallationTypeCode	VARCHAR2(8)	xsd:string maxLen = 8
Meter Location	Location	ElectricityMeter/Location	VARCHAR2(200) See AddSiteInfo (above)	xsd:string maxLen = 200
Meter Manufacturer	Manufacturer	ElectricityMeter/Manufacturer	VARCHAR2(15)	xsd:string maxLen = 15
Meter Model	Model	ElectricityMeter/Model	VARCHAR2(12)	xsd:string maxLen = 12
Meter Read Type	ReadTypeCode	ElectricityMeter/ReadTypeCode	VARCHAR(4)	xsd:string maxLen = 4

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Meter Serial ID Meter ID (Different on two screens)	SerialNumber	ElectricityMeter/SerialNumber	VARCHAR2(12)	xsd:string maxLen = 12
Status Code	Status	ElectricityMeter/Status	CHAR(1)	xsd:string with enumeration
Meter Use	Use	ElectricityMeter/Use	VARCHAR2(10)	xsd:string maxLen = 10
Next Scheduled Read Date	NextScheduled ReadDate	ElectricityMeter/NextScheduled ReadDate	dd-mmm-yyyy	xsd:date
NMI	NMI	NMI	CHAR(10)	xsd:string maxLen = 10
Test Result	TestResult	ElectricityMeter/TestResult	VARCHAR2(4)	xsd:string maxLen = 4
Voltage Transformer Location	VoltageTransformerLocation	ElectricityMeter/VoltageTransformerLocation	VARCHAR(50)	xsd:string maxLen = 50
Voltage Transformer Type	VoltageTransformerType	ElectricityMeter/VoltageTransformerType	VARCHAR(50)	xsd:string maxLen = 50
Voltage Transformer Ratio	VoltageTransformerRatio	ElectricityMeter/VoltageTransformerRatio	VARCHAR(50)	xsd:string maxLen = 50
Voltage Transformer Accuracy Class	VoltageTransformerAccuracyClass	ElectricityMeter/VoltageTransformerAccuracyClass	VARCHAR(20)	xsd:string maxLen = 20
Voltage Transformer Test	VoltageTransformerTest	ElectricityMeter/VoltageTransformerTest	VARCHAR2(20)	xsd:string maxLen = 20
Voltage Transformer Test Date	VoltageTransformerTestDate	ElectricityMeter/VoltageTransformerTestDate	dd-mmm-yyyy	xsd:date
Start Date	FromDate	FromDate	dd-mmm-yyyy	xsd:dateTime
End Date	ToDate	ToDate	dd-mmm-yyyy	xsd:dateTime

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Updated On	MaintenanceDate	MaintenanceDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Created On	CreationDate	CreationDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Activity Status	RowStatus	RowStatus	CHAR(1)	xsd:string with enumeration

4.3. Field value examples

This section provides examples of typical sets of data element values associated with different types of *connection points*.

The data shown in each example is as shown in the Browser. This reverses the sequence of the day-month-year communicated via aseXML transactions.

Table 5 MSATS_Meter_Register - Example

Data Element Name (as it appears in XML documents)	Browser Field Name(as it appears in MSATS Browser)	Basic Example	Interval Example	Data Element Name
CurrentTransformerLocation	Current Transformer Location		BEHIND DOOR	CurrentTransformerLocation
CurrentTransformerType	Current Transformer Type		A	CurrentTransformerType
CurrentTransformerRatioAvailable	Current Transformer Ratio Available		20/50/100:5	CurrentTransformerRatio
CurrentTransformerRatioConnected	Current Transformer Ratio Connected		400:5	CurrentTransformerRatio
CurrentTransformerAccuracyClass	Current Transformer Accuracy Class		0.2M	CurrentTransformerAccuracyClass
CurrentTransformerTest	Current Transformer Test		Tested	CurrentTransformerTest

Data Element Name (as it appears in XML documents)	Browser Field Name(as it appears in MSATS Browser)	Basic Example	Interval Example	Data Element Name
CurrentTransformerTestDate	Current Transformer Test Date		01-01-2020	CurrentTransformerTestDate
GPSCoordinates - Latitude	GPSCoordinatesLat	-37.8886755	-37.8886755	
GPSCoordinates - Longitude	GPSCoordinatesLong	+145.1410361	+145.1410361	
LastTestDate	Last Test Date	07-05-2004	07-03-2004	LastTestDate
Hazard	Meter Hazard		Asbestos	Hazard
InstallationTypeCode	Meter Installation Type Code	BASIC	COMMS4	InstallationTypeCode
Location	Meter Location	ON SUB POLE	BEHIND DOOR	Location
Manufacturer	Meter Manufacturer	EMAIL	EDMI	Manufacturer
Model	Meter Model	Q3	Q4	Model
ReadTypeCode	Meter Read Type	MV3M	RTDA	ReadTypeCode
SerialNumber	Meter Serial ID, Meter ID (Different on two screens)	525811	201000299	SerialNumber
Status	Status Code	C	C	Status
Use	Meter Use	REVENUE	REVENUE	Use
NextScheduledReadDate	Next Scheduled Read Date	04-10-2006		NextScheduledReadDate
NMI	NMI	1122334455	1122334455	NMI
TestResulty	Test Result Accuracy	-0.20000	-0.11000	TestResult
VoltageTransformerLocation	Voltage Transformer Location		BEHIND DOOR	VoltageTransformerLocation
VoltageTransformerType	Voltage Transformer Type		IVT	VoltageTransformerType
VoltageTransformerRatio	Voltage Transformer Ratio		3300:110	VoltageTransformerRatio
VoltageTransformerAccuracyClass	Voltage Transformer Accuracy Class		0.01M	VoltageTransformerAccuracyClass
VoltageTransformerTest	Voltage Transformer Test		TESTED	VoltageTransformerTest
VoltageTransformerTestDate	Voltage Transformer Test Date		01-01-2020	VoltageTransformerTestDate

Data Element Name (as it appears in XML documents)	Browser Field Name(as it appears in MSATS Browser)	Basic Example	Interval Example	Data Element Name
FromDate	Start Date	14-03-1990	16-03-2002	FromDate
ToDate	End Date	31-12-9999	18-07-2006	ToDate
MaintenanceDate	Updated On	31-12-999 00:00:00	31-12-999 00:00:00	MaintenanceDate
CreationDate	Created On	19-03-1990 00:01:00	18-03-2002 00:01:00	CreationDate

5. CATS_DLF_CODES

5.1. Field Definitions

The CATS_DLF_Codes table contains a list of DLF Codes and their relevant values. The StartDate and DLFCode fields will need to be provided for *settlements* calculations.

Note: References to 'LNSP' include the ENM for child *connection points*.

Table 6 CATS_DLF_CODES – Field Definitions

Data Element Name	Description	Standing Data Required	Party to Provide
DistributionLossFactorCode	A four character alpha-numeric code used to identify DLF values. All <i>NMIs</i> must be assigned a DLF Code. Refer to AEMO Distribution Loss Factor documents for each financial year..	MANDATORY	AEMO
DistributionLossFactorDescription	Description of the DLF Code and value.	MANDATORY	AEMO
DistributionLossFactor Value	Numeric value up to 5 decimal places, reflecting the value of the DLF Code.	MANDATORY	AEMO
JurisdictionCode	Jurisdiction code to which the <i>NMI</i> belongs. This value must correspond to Jurisdiction Code values as specified in the MSATS Procedures: CATS Procedures.	MANDATORY	AEMO
RowStatus	Indicates whether the DLF Code is active or inactive. Whenever a new record is created, it will be A (Active). A change to the data will make this record redundant and its MaintActFlg is changed to I (Inactive).	MANDATORY	System generated
FromDate	Start date of the record. This indicates the date on which the parameters of this particular record apply from. The data applies from the beginning of this date (the start of the day, i.e. 00:00).	MANDATORY	AEMO

Data Element Name	Description	Standing Data Required	Party to Provide
ToDate	End date of the record. This indicates the date on which the parameters of this particular record end. The data applies until the end of this date (the end of the day, i.e. 23:59). A default date of 9999-12-31 is recorded if EndDate is not provided.	MANDATORY	System generated
MaintenanceDate	Date and time the record was updated. A default date of 9999-12-31 is used when the record is created initially. If the record is subsequently updated, its MaintUpdtDt is changed to the date and time the record was updated.	MANDATORY	System generated
CreationDate	Date and time the record was created.	MANDATORY	System generated

5.2. Cross Reference of Browser and aseXML Data Elements

The table below lists the names that are used in the MSATS browser. The table also provides the aseXML data element names and the respective formats used in each context.

In some cases, such as date fields, the format of the field is shown differently in the Browser to that used in the related aseXML transactions. Also, aseXML uses full words throughout, rather than the coded values used in the Browser.

Section 16 provides data type conventions of the Browser formats shown in this section.

Table 7 CATS_DLF_Codes - Browser Cross Reference

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
DLF Code	DistributionLossFactorCode	DistributionLossFactorCode	VARCHAR2(4)	xsd:string maxLen = 4
Description	DistributionLossFactorDescription	DistributionLossFactorDescription	VARCHAR2(50)	xsd:string maxLen = 50
DLF Value	DistributionLossFactorValue	DistributionLossFactorValue	NUMBER(6,5)	xsd:decimal minIncl = 0 maxIncl = 62 totdig = 6 fracdig = 5
Jurisdiction	JurisdictionCode	ElectricityStandingData/MasterData/JurisdictionCode	VARCHAR2(3)	xsd:string maxLen = 3

Data Element Name	Description	Standing Data Required	Party to Provide
	<p>A default date of 9999-12-31 is used when the record is created initially.</p> <p>If the record is subsequently updated, its MaintUpdtDt is changed to the date and time the record was updated.</p>		generated
CreationDate	Date and time the record was created.	MANDATORY	System generated

6.2. Cross Reference of Browser and aseXML Data Elements

The table below lists the names that are used in the MSATS browser. The table also provides the aseXML data element names and the respective formats used in each context.

In some cases, such as date fields, the format of the field is shown differently in the Browser to that used in the related aseXML transactions. Also, aseXML uses full words throughout, rather than the coded values used in the Browser.

Section 16 provides data type conventions of the Browser formats shown in this section.

Table 10 CATS_Emb_Net_ID_Codes - Browser Cross Reference

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Code	EmbeddedNetworkIdentifier	EmbeddedNetworkIdentifier	VARCHAR2(10)	xsd:string maxLen = 10
Description	EmbeddedNetworkDescription	EmbeddedNetworkDescription	VARCHAR2(50)	xsd:string maxLen = 50
Locality/Suburb	SuburbOrPlaceOrLocality	ElectricityStandingData/MasterData/Address/AustralianAddress/SuburbOrPlaceOrLocality	VARCHAR2(46)	xsd:string maxLen = 46
Postcode	PostCode	ElectricityStandingData/MasterData/Address/AustralianAddress/PostCode	VARCHAR2(4)	xsd:string pattern: [\p{N}]{4}
State	StateOrTerritory	ElectricityStandingData/MasterData/Address/AustralianAddress/StateOrTerritory	VARCHAR2(3)	xsd:string with enumerations
Activity Status	RowStatus	RowStatus	CHAR(1)	xsd:string with enumeration
Start Date	FromDate	FromDate	dd-mmm-yyyy	xsd:dateTime
End Date	ToDate	ToDate	dd-mmm-yyyy	xsd:dateTime

Data Element Name	Description	Standing Data Required	Party to Provide
ConnectionConfiguration	<p>Two-character code to denote information about the configuration of the connection point.</p> <p>First Character = Connection Type.</p> <p>H = <i>High voltage</i> (as defined in the NER)</p> <p>L = Low voltage (lower than the threshold defined for <i>high voltage</i> in the NER)</p> <p>Second Character = Phases In Use. This refers to phases to the NMI.</p> <p>1 = Single Phase</p> <p>2 = Two-Phase</p> <p>3 = Three-Phase</p> <p>Information registered with a Greenfield NMI may be subject to change during the connection process. Information may be subject to change during the NMI lifecycle.</p>	MANDATORY	LNSP
ChildEmbedded NetworkIdentifier	<p>The embedded network identifier code is used to identify which embedded network this given <i>NMI</i> is the 'child of'. (If on a NMI record this field is not populated, it is assumed the <i>NMI</i> is not the child of any other <i>NMI</i>.)</p> <p>Must be a valid code within the CATS_Emb_Net_ID_Codes table.</p> <p>This field cannot be used unless the Parent NMI has been created and assigned an embedded network identifier code. Refer section 30.4.a of the CATS Procedure.</p>	REQUIRED	LNSP
ParentEmbedded NetworkIdentifier	<p>The embedded network identifier code is used to identify which <i>embedded network</i> this given <i>NMI</i> is the 'parent of'. (If on a NMI record this field is not populated, it is assumed the <i>NMI</i> is not the parent of any other <i>NMI</i>.)</p> <p>Must be a valid code within the CATS_Emb_Net_ID_Codes table</p>	REQUIRED	LNSP
BuildingOrProperty Name	<p>A free text description of the full name used to identify the physical building or property as part of its location.</p> <p>Defines the building or property name, reference AS4590.</p>	REQUIRED	LNSP
LotNumber	<p>The lot reference number allocated to an address prior to street numbering. The word 'LOT' is not required.</p>	REQUIRED	LNSP
FlatOrUnitNumber	<p>Specification of the number of the flat or unit which is a separately identifiable portion within a building/complex.</p>	REQUIRED	LNSP
FlatOrUnitType	<p>Specification of the type of flat or unit which is a separately identifiable portion within a building/complex. This value must correspond to a valid Flat Type Code, reference AS4590.</p>	REQUIRED	LNSP
FloorOrLevelNumber	<p>Floor Number is used to identify the floor or level of a multi-storey building/complex.</p>	REQUIRED	LNSP
FloorOrLevelType	<p>Floor Type is used to identify the floor or level of a multi-storey building/complex. This value must correspond to a valid Floor Type Code in the Floor Type Codes, reference AS4590.</p>	REQUIRED	LNSP
HouseNumber	<p>The numeric reference of a house or property. Specifically the house number.</p>	REQUIRED	LNSP

Data Element Name	Description	Standing Data Required	Party to Provide
Aggregate	This flag determines whether the energy at this <i>connection point</i> is to be treated as consumer <i>load</i> or as a <i>generating unit</i> (this may include <i>generator</i> auxiliary loads). MSATS will initially set this field to "Y" This value must correspond to a valid Aggregate value in the Aggregate Codes reference table listed in section 11.	OPTIONAL	(Defaults to 'Y', AEMO updates to 'N' as required)
Feeder Class	Not used in the NT Procedures		
Customer Classification Code	A code that defines the consumer class as defined in the MSATS Procedures, or in overriding Jurisdictional instruments.	MANDATORY	Current FRMP
Customer Classification Threshold Code	A code that defines the consumption threshold as defined in the MSATS Procedures, or in overriding Jurisdictional instruments.	MANDATORY	LNSP
<u>Last Consumer Change Date</u>	<u>The date a consumer starts or ends as the account holder for a premises.</u>	MANDATORY	Current FRMP
FromDate	Start date of the NMI Data record. This indicates the date on which the parameters of this particular NMI data record apply from. The data applies from the beginning of this date (the start of the day, i.e. 00:00).	MANDATORY	LNSP
ToDate	End date of the record. This indicates the date on which the parameters of this particular record end. The data applies until the end of this date (the end of the day, i.e. 23:59). A default date of 9999-12-31 is recorded if EndDate is not provided.	MANDATORY (Defaults to high date unless supplied)	System generated unless supplied.
RowStatus	Indicates whether the record is active or inactive. Whenever a new record is created, it will be A (Active). A change to the data will make this record redundant and its MaintActFlg is changed to I (Inactive).	MANDATORY	System generated
MaintenanceDate	Date and time the record was updated. A default date of 9999-12-31 is used when the record is created initially. If the record is subsequently updated, its MaintUpdtDt is changed to the date and time the record was updated.	MANDATORY	System generated
CreationDate	Date and time the record was created.	MANDATORY	System generated

7.2. Cross Reference of Browser and aseXML Data Elements

The table below lists the names that are used in the MSATS browser. The table also provides the aseXML data element names and the respective formats used in each context.

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Street Type	StreetType	ElectricityStandingData/MasterData/Address/AustralianAddresses/StructuredAddress/Street/StreetType	VARCHAR2(4)	xsd:string with enumerations
Suburb/Locality	SuburbOrPlaceOrLocality	ElectricityStandingData/MasterData/Address/AustralianAddresses/StructuredAddress/SuburbOrPlaceOrLocality	VARCHAR2(46)	xsd:string maxLen = 46
Location Descriptor	LocationDescriptor	ElectricityStandingData/MasterData/Address/AustralianAddresses/StructuredAddress/LocationDescriptor	VARCHAR2(30)	xsd:string pattern: [\p{L}\p{N}\p{P}\s]{1,30}
Postcode	PostCode	ElectricityStandingData/MasterData/Address/AustralianAddresses/PostCode	VARCHAR2(4)	xsd:string pattern: [\p{N}]{4}
State	StateOrTerritory	ElectricityStandingData/MasterData/Address/AustralianAddresses/StateOrTerritory	VARCHAR2(3)	xsd:string with enumerations
DPID	DeliveryPointIdentifier	ElectricityStandingData/MasterData/Address/AustralianAddresses/StructuredAddress/DeliveryPointIdentifier	NUMBER(8)	xsd:nonNegativeInteger minIncl = 10000000 maxIncl = 99999999
GNAF PID	GNAFPID	ElectricityStandingData/MasterData/Address/AustralianAddresses/StructuredAddress/GNAFPID	VARCHAR2(20)	xsd:string maxLen = 20
Section Number	SectionNumber	ElectricityStandingData/MasterData/Address/AustralianAddresses/StructuredAddress/SectionNumber	VARCHAR2(20)	xsd:string maxLen = 20
DP Number	DPNumber	ElectricityStandingData/MasterData/Address/AustralianAddresses/StructuredAddress/DPNumber	VARCHAR2(20)	xsd:string maxLen = 20
Aggregate Flag	Aggregate	ElectricityStandingData/MasterData/Aggregate	CHAR(1)	xsd:string with enumeration

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Start Date	FromDate	FromDate	dd-mmm-yyyy	xsd:dateTime
End Date	ToDate	ToDate	dd-mmm-yyyy	xsd:dateTime
Updated On	MaintenanceDate	MaintenanceDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Created On	CreationDate	CreationDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Activity Status	RowStatus	RowStatus	CHAR(1)	xsd:string with enumeration
Feeder Class	Feeder Class	ElectricityStandingData/MasterData/FeederClass	VARCHAR2(15)	xsd:string maxLen = 15
Customer Classification Code	CustomerClassificationCode	ElectricityStandingData/MasterData/CustomerClassificationCode	VARCHAR2(20)	xsd:string maxLen = 20
Last Consumer Change Date	LastConsumerChangeDate	ElectricityStandingData/MasterData/LastConsumerChangeDate	dd-mmm-yyyy	xsd:date
Customer Classification Threshold Code	CustomerThresholdCode	ElectricityStandingData/MasterData/CustomerThresholdCode	VARCHAR2(20)	xsd:string maxLen = 20

7.3. Field value examples

This section provides examples of typical sets of data element values associated with different types of *connection points*.

The data shown in each example is as shown in the Browser. This reverses the sequence of the day-month-year communicated via aseXML transactions.

Table 14 CATS_NMI_Data Field value examples

Data Element Name	Browser Field Name	Basic Example	Interval Example
NMI	NMI	122334451	1122334455

Data Element Name	Description	Standing Data Required	Party to Provide
Multiplier	Multiplier required to take a register value and turn it into a value representing billable energy	MANDATORY	MPB
DialFormat	Describes the register display format. First number is the number of digits to the left of the decimal place, and the second number is the number of digits to the right of the decimal place.	MANDATORY	MPB
Suffix	The Suffix field in the CATS_REGISTER_IDENTIFIER table is used to identify a physical data source that is obtained from the <i>meter</i> . The value must match the value provided in the MDFF File. The Suffix value must be unique for each meter register. The Suffix in the CATS_REGISTER_IDENTIFIER table must be valid specified in the NT NMI Procedure. <ul style="list-style-type: none"> For Basic Meters, the Suffix in the CATS_REGISTER_IDENTIFIER table need not match the RegisterID in the CATS_REGISTER_IDENTIFIER table. For basic data streams, the value will be identical to the related Suffix value in the CATS_NMI_DataStream table. For Interval Meters, the Suffix in the CATS_REGISTER_IDENTIFIER table will indicate the individual datastreams: <ul style="list-style-type: none"> contributing to the Nx Suffix value in the CATS_NMI_DataStream table, or associated with the individual register level interval datastream records. 	MANDATORY	MPB
ControlledLoad	Indicates whether the <i>energy</i> recorded by this register is created under a Controlled Load regime ControlledLoad field will have "NO" if register does not relate to a Controlled Load. If the register relates to a Controlled Load, it must correspond to a valid Controlled Load value in the Controlled Load Codes reference table listed in section 11.	MANDATORY	MPB
RegisterDetail/ Status	Lookup code to indicate if register is active. Must ensure that RegisterDetail/Status is not Current (C) when ElectricityMeter/Status is Removed (R). This value must correspond to a valid Register Identifier Status as specified in the MSATS Procedures: CATS Procedures.	MANDATORY	MPB
ConsumptionType	Actual/Subtractive Indicator. Actual (A) implies volume of energy actually metered between two dates. Cumulative (C) indicates a Meter Reading for a specific date. A second Meter Reading is required to determine the consumption between those two Meter Reading dates. For an Interval Meter, ActCumInd = A. This value must correspond to a valid ConsumptionType from the Consumption Type Codes reference table listed in section 11.	MANDATORY	MPB

Data Element Name	Description	Standing Data Required	Party to Provide
FromDate	Start date of the <i>NMI</i> data record. This indicates the date on which the parameters of this particular <i>NMI</i> data record apply from. The data applies from the beginning of this date (the start of the day, i.e. 00:00).	MANDATORY	Participant sending transaction
ToDate	End date of the record. This indicates the date on which the parameters of this particular record end. The data applies until the end of this date (the end of the day, i.e. 23:59). A default date of 9999-12-31 is recorded if EndDate is not provided.	MANDATORY (Defaults to high date unless supplied)	System generated unless supplied.
RowStatus	Indicates whether the record is active or inactive. Whenever a new record is created, it will be A (Active). A change to the data will make this record redundant and its MaintActFlg is changed to I (Inactive).	MANDATORY	System generated
MaintenanceDate	Date and time the record was updated. A default date of 9999-12-31 is used when the record is created initially. If the record is subsequently updated, its MaintUpdtDt is changed to the date and time the record was updated.	MANDATORY	System generated
CreationDate	Date and time the record was created.	MANDATORY	System generated

9.2. Cross Reference of Browser and aseXML Data Elements

The table below lists the names that are used in the MSATS browser. The table also provides the aseXML data element names and the respective formats used in each context.

In some cases, such as date fields, the format of the field is shown differently in the Browser to that used in the related aseXML transactions. Also, aseXML uses full words throughout, rather than the coded values used in the Browser.

Section 16 provides data type conventions of the Browser formats shown in this section.

Table 19 CATS_Register_Identifier - Browser Cross Reference

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
NMI	NMI	NMI	CHAR(10)	xsd:string maxLen = 10

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Meter Serial ID Meter ID (Different on two screens)	SerialNumber	SerialNumber	VARCHAR2(12)	xsd:string maxLen = 12
Register ID	RegisterID	ElectricityMeterRegisterDetail/RegisterID	VARCHAR2(10)	xsd:string maxLen = 10
Network Tariff Code	NetworkTariffCode	ElectricityMeterRegisterDetail/NetworkTariffCode	VARCHAR2(10)	xsd:string maxLen = 10
Network Tariff Additional Information	NetworkAdditionalInformation	ElectricityMeterRegisterDetail/NetworkAdditionalInformation	VARCHAR2(4000)	xsd:string
Unit of Measure	UnitOfMeasure	ElectricityMeterRegisterDetail/UnitOfMeasure	VARCHAR2(5)	xsd:string maxLen = 5
Time of Day	TimeOfDay	ElectricityMeterRegisterDetail/TimeOfDay	VARCHAR2(10)	xsd:string maxLen = 10
Multiplier	Multiplier	ElectricityMeterRegisterDetail/Multiplier	Number(13,5)	xsd:decimal
Dial Format	DialFormat	ElectricityMeterRegisterDetail/DialFormat	Number(4,2)	xsd:decimal minIncl = 0 maxIncl = 9999.99 totdig = 4 fracdig = 2
Suffix	Suffix	ElectricityMeterRegisterDetail/Suffix	VARCHAR2(2)	xsd:string maxLen = 2
Controlled Load	ControlledLoad	ElectricityMeterRegisterDetail/ControlledLoad	VARCHAR2(100)	xsd:string maxLen = 100
Status Code	Status	ElectricityMeterRegisterDetail/Status	CHAR(1)	xsd:string with enumeration
Actual/Cumulative Indicator	ConsumptionType	ElectricityMeterRegisterDetail/ConsumptionType	CHAR(1)	xsd:string with enumeration
Start Date	FromDate	FromDate	dd-mmm-yyyy	xsd:dateTime
End Date	ToDate	ToDate	dd-mmm-yyyy	xsd:dateTime

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Updated On	MaintenanceDate	MaintenanceDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Created On	CreationDate	CreationDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Activity Status	RowStatus	RowStatus	CHAR(1)	xsd:string with enumeration

9.3. Field value examples

This section provides examples of typical sets of data element values associated with different types of *connection points*.

The data shown in each example is as shown in the Browser. This reverses the sequence of the day-month-year communicated via aseXML transactions.

Table 20 CATS_Register_Identifier - Example

Data Element Name	Browser Field Name	Basic Example	Interval Example
NMI	NMI	1100445566	2211335544
SerialNumber	Meter Serial ID Meter ID (Different on two screens)	000012345	112258
RegisterID	Register ID	1	E1
NetworkTariffCode	Network Tariff Code	BLNB2CO	MB2RI
NetworkAdditionalInformation	Network Tariff Additional Information	All day tariff	LV TOU Demand Eligible
UnitOfMeasure	Unit of Measure	KWH	KWH
TimeOfDay	Time of Day	ALLDAY	INTERVAL

Data Element Name	Browser Field Name	Basic Example	Interval Example
Multiplier	Multiplier	1.00000	120.00000
DialFormat	Dial Format	5.00	5.10
Suffix	Suffix	11	E1
ControlledLoad	Controlled Load	YES	NO
Status	Status Code	C	C
ConsumptionType	Actual/Cumulative Indicator	C	A
FromDate	Start Date	01-08-2004	01-06-2005
ToDate	End Date	31-12-9999	31-12-9999
MaintenanceDate	Updated On	31-12-9999	31-12-9999
CreationDate	Created On	01-11-2005 22:30:30	05-06-2005 09:09:09
RowStatus	Activity Status	A	A

10. CATS_NMI_PARTICIPANT_RELATIONS

10.1. Field Definitions

The CATS_NMI_Participant_Relations table is a NMI master table containing data that stores the Roles that Participants play for each *NMI*. It is updated whenever a Change Request containing inbound Roles is completed. Each Role record, which contains a single Role code and a single Participant ID, has a start date and an end date, as well as information about when it was created and when it became inactive if it is no longer an active record.

Table 21 CATS_NMI_PARTICIPANT_RELATIONS – Field Definitions

Data Element Name	Description	Standing Data Required	Party to Provide
Party	The Participant ID whose relationship (Role) with the <i>NMI</i> is defined in this table.	MANDATORY	LNSP

Data Element Name	Description	Standing Data Required	Party to Provide
NMI	<i>NMI</i> . This number is unique for each <i>connection point</i> .	MANDATORY	LNSP
Role	This defines the relationship (Role) of the Participant with the <i>NMI</i> in this table.	MANDATORY	LNSP
FromDate	Start date of the record. This indicates the date on which the parameters of this particular record apply from. The data applies from the beginning of this date (the start of the day, i.e. 00:00).	MANDATORY	Party sending transaction
ToDate	End date of the record. This indicates the date on which the parameters of this particular record end. The data applies until the end of this date (the end of the day, i.e. 23:59). A default date of 9999-12-31 is recorded if EndDate is not provided.	MANDATORY (Defaults to high date unless supplied)	System generated unless supplied.
RowStatus	Indicates whether the record is active or inactive. Whenever a new record is created, it will be A (Active). A change to the data will make this record redundant and its MaintActFlg is changed to I (Inactive).	MANDATORY	System generated
MaintenanceDate	Date and time the record was updated. A default date of 9999-12-31 is used when the record is created initially. If the record is subsequently updated, its MaintUpdtDt is changed to the date and time the record was updated.	MANDATORY	System generated
CreationDate	Date and time the record was created.	MANDATORY	System generated

10.2. Cross Reference of Browser and aseXML Data Elements

The table below lists the names that are used in the MSATS browser. The table also provides the aseXML data element names and the respective formats used in each context.

In some cases, such as date fields, the format of the field is shown differently in the Browser to that used in the related aseXML transactions. Also, aseXML uses full words throughout, rather than the coded values used in the Browser.

Section 16 provides data type conventions of the Browser formats shown in this section.

Table 22 CATS_NMI_Participant_Relations - Browser Cross Reference

Browser Field Name	aseXML Data Element Name	aseXML Path	Browser Format	aseXML Data Type
Participant ID	Party	Party	VARCHAR2(10)	xsd:string
NMI	NMI	NMI	CHAR(10)	xsd:string maxLen = 10
Role	Role	Role	VARCHAR2(4)	xsd:string maxLen = 4
Start Date	FromDate	FromDate	dd-mmm-yyyy	xsd:dateTime
End Date	ToDate	ToDate	dd-mmm-yyyy	xsd:dateTime
Updated On	MaintenanceDate	MaintenanceDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Created On	CreationDate	CreationDate	dd-mmm-yyyy (summary screen) dd-mmm-yyyy hh:mm:ss (detail screen)	xsd:dateTime
Activity Status	RowStatus	RowStatus	CHAR(1)	xsd:string with enumeration

Transformer Field	Valid Values
	2000:05
	2400:01
	2400:05
	2500:01
	2500:05
	3000:01
	3000:05
	3150:05
	3200:01
	3200:05
	4000:01
	4000:05
	4500:01
	4500:05
	4800:01
	5000:01
	5000:05
	100/200/300:5
	100/200/400:5
	100/200:1
	100/200:5
	100/400/800/1200:1
	100/200/400:1
	100/300:5
	100/400/600:1
	1000/1500:5
	1000/1600:1
	1000/2000/3000:5
	1200/1600/2000:1
	125/200:1
	150/300/600/1200:1
	150/300/600/800:1
	150/300/600:5
	150/300:5
	150/200:5
	150/300:1
	1500/2000/2500:1
	20/50/100/150:5
	20/50/100:5

Transformer Field	Valid Values
	20/50/75:5
	200/400/600:1
	200/400/800/1200/2400:1
	200/400/800:1
	200/400/800:5
	200/400:5
	200/800/1200/2000:1
	200/800/1200/2400:1
	200/300:5
	200/400/600:5
	200/400:1
	2000/3000:5
	25/50/100/150:5
	25/50/100:5
	250/500/1000:1
	300/600/1200:1
	300/600:5
	300/500/2000:1
	300/600:1
	40/60:1
	400/1000/1200:1
	400/1200:1
	400/1600/2400:1
	400/800/1200:1
	400/800/1200:5
	400/800/1600/2800:1
	400/800/1600:1
	400/800:1
	50/100/150:1
	50/100/150:5
	50/100:5
	50/150/250:5
	50 / 150:5
	50 / 300:1
	50/100/200:550/200:5
	500/1000:5
	500/1500 2500:1
	500/1500:1
	600/1200/2400:1

Transformer Field	Valid Values
	600/1200:5 600/800/1200/1600:1 600/900/1200:5 600/1200:1 750/1500:5 800/1200/2500:1 800/1200:5 800/2000/2400/4000:1 800/1200/2000:5 800/1250:1 800/1250:5 <u>1250:1÷1</u> <u>60000:5</u> <u>1000/1200/1600:5</u> <u>1000/1500/2000:5</u> <u>400/1400/1600/2400:1</u> <u>600/750:1</u> <u>200/600/900/2400:1</u> <u>15/25/40/60:5</u> <u>50/75/100/150:5</u> ÷1
CT Ratio (Connected)	5:01 5:05 10:05 15:05 20:05 25:01 25:05 30:05 40:01 40:05 50:01 50:05 60:05 75:01 75:05 80:05 100:01

	100:05
	120:05
	125:01
	125:05
	150:01
	150:05
	160:05
	200:01
Transformer Field	Valid Values

	200:05
	250:01
	250:05
	300:01
	300:05
	400:01
	400:05
	500:01
	500:05
	600:01
	600:05
	630:01
	630:05
	650:01
	750:01
	750:05
	800:01
	800:05
	900:01
	1000:01
	1000:05
	1100:01
	1200:01
	1200:05
	1250:01
	1250:05
	1400:01
	1500:01
	1500:05
	1600:01
	1600:05
	1700:01
	1900:01
	2000:01
	2000:05
	2400:01
	2400:05
	2500:01
	2500:05
Transformer Field	Valid Values

	3000:01 3000:05 3150:05 3200:01 3200:05 4000:01 4000:05 4500:01 4500:05 4800:01 5000:01 5000:05
CT Accuracy Class	0.05PX 0.2M 0.2ME1.5 0.2ME2 0.2ME2.5 0.2S 0.5 EXT 200% 0.5M 0.5ME1.25 0.5ME2 0.5ME2.5 0.5S 0.5S EXT 200% A AM BM UNKNOWN
VT Type	IVT CVT COMBINED THREE-PHASE THREE-LIMB THREE-PHASE FIVE-LIMB
VT Ratio (Available and Connected)	3300:110 5000:110 5500:110
Transformer Field	Valid Values

	6600:110
	11000:110
	11500:110
	22000:110
	33000:110
	44000:110
	66000:110
	110000:110
	132000:110
	220000:110
	275000:110
	330000:110
	500000:110
VT Accuracy Class	0.01M
	0.2
	0.5
	0.2M
	0.5M
	1M
	A
	ALB
	BL
	C
	D
	UNKNOWN

Table 28 Valid Meter Use Codes

Meter Use	Description
REVENUE	Revenue meter. or unmetered load.
CHECK	Check meter.
STATISTICAL	Statistical meter.
TUOS	TUOS meter.
LOGICAL	Logical meter.
SAMPLE	Sample meter.
AVERAGE	Average meter.
PREPAID	Prepaid meter.
INFORMATION	Information meter.
UNKNOWN	Unknown meter use code.

Table 29 Valid Time of Day Codes

TimeOfDay	Description
ALLDAY	All day
INTERVAL	Interval time of day, used for all Interval metering
PEAK	Peak time of day
BUSINESS	Business time of day
SHOULDER	Shoulder time of day
EVENING	Evening time of day
OFFPEAK	Off peak time of day
CONTROLLED	Controlled time of day
DEMAND	Demand is used for describing a register

Table 30 Valid Controlled Load Codes

ControlledLoad	Description
NO	No controlled load
YES	There is controlled load associated with a controlled load network tariff on this register
EXT	There is controlled load which is externally switched by the LNSP associated with a controlled load network tariff on this register

Table 31 Valid Test Result Codes

Test Result	Description
PASS	Test has passed
FAIL	Test has failed

Table 32 Valid Transformer Test Values

Test Result	Description
TESTED	Part of 100% testing
SAMPLE TESTED	Tested as part of a sample plan
SAMPLE	Part of an approved sample plan

Table 33 Valid Shared Isolation Point Flag Values

SharedIsolationPointFlag	Description
Y	Indicates that a Shared Fuse Arrangement is present
N	Indicates that no Shared Fuse Arrangement is present
I	Indicates the metering installation is Isolated independently but still part of a Shared Fuse Arrangement
U	Indicates that the presence of a Shared Fuse Arrangement is Unknown

Note: Refer to the MSATS CATS Procedure section 4 for details on the valid codes for the following:

- Jurisdiction Codes
- Metering Installation Type Codes
- NMI Classification Codes
- NMI Status Codes

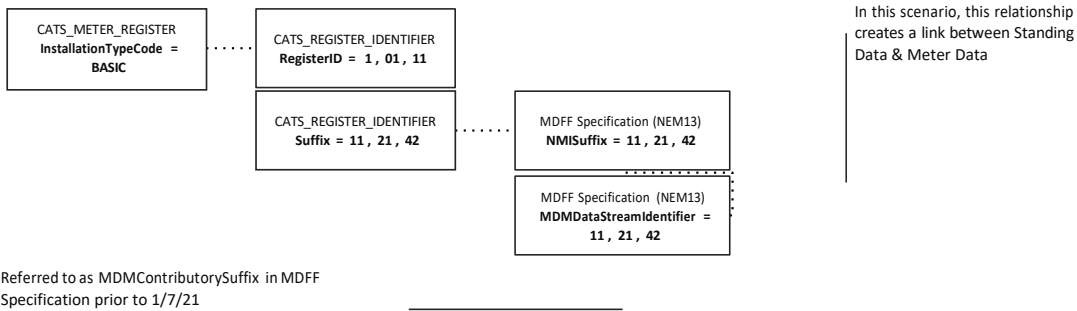
12. Use of NMI suffix to populate CATS_REGISTER_IDENTIFIER

For any particular *connection point* there may be multiple *energy* measurement elements and data recorders with multiple channels. Accurate identification of Datastreams is essential.

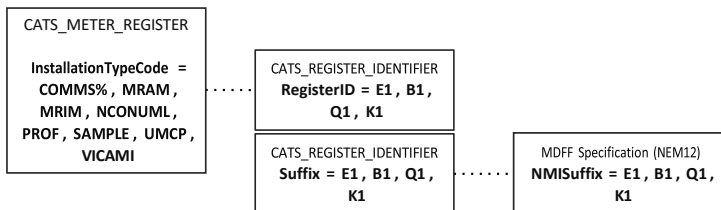
The NMI Procedure includes the requirements for structure of the Suffix populated in the CATS_REGISTER_IDENTIFIER table..

The illustrations below provide context to the relationships between ‘Suffix’ across the MDFF Specification and CATS Procedures (specifically the CATS_REGISTER_IDENTIFIER table and CATS_DATA_STREAM tables).

Example of an Accumulated Meter ‘Suffix’



Example of an Interval Meter ‘Suffix’



The NT NER do not permit the use of two different types of *metering installation* on the one *NMI*, and therefore these two *metering* functions MUST NOT be active simultaneously in MSATS.

The CATS_REGISTER_IDENTIFIER can be used to record the *meter* capability.

The CATS_REGISTER_IDENTIFIER table values for this *meter* when it is operated as an Interval Meter are shown below. The RegisterID for the Accumulation Meter registers in this type of *meter* are user defined. The Interval Meter suffixes must be added to the *NMI* and made active, and the basic Suffixes made inactive at the same date.

Table 51 Example CATS_REGISTER_IDENTIFIER

Data Element:					
Values					
		21	KWH	SHOULDER	21
	AB888888	31	KWH	OFFPEAK	31
	AB888888	41	KWH	CONTROLLED	41

14.5. UMCP

Table 53 Example CATS_REGISTER_IDENTIFIER

Data Element:	Serial Number	RegisterID	UnitOfMeasure	TimeOfDay	Suffix
Values	Dummy Value	E1	KWH	INTERVAL	E1

15. Not used in The NT procedures

16. Data type conventions

The Browser formats used in section 16 are as defined in the following table.

The value of “x” must be positive and cannot be zero.

For explanation of the aseXML data types shown in section 16 refer

<http://www.w3.org/TR/xmlschema-0/#simpleTypesTable>

Table 56 BROWSER FORMATS

