MSDR data transition workshop

July 2020

Agenda

1. Introduction and meeting approach

2. The proposed change

3. Data transition

    1. NMI Data

    2. Register Identifier

    3. Meter Register

Proposed 10 minute breaks:

10:00 – 10:10

11:30 – 11:40

Introduction

AEMO Competition Law Meeting Protocol

Before we start this meeting, an important notice relating to *compliance with Competition Law*

We must not discuss, or reach or give effect to any agreement or understanding which relates to:

- Pricing
- Targeting (or not targeting) customers
- Tendering processes
- Sharing competitively sensitive information
- Breaching confidentiality obligations

Each entity must make an independent and unilateral decision about its commercial positions

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We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture. We pay our respects to their Elders past, present and emerging.

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Meeting approach

Meeting approach

As AEMO is currently consulting on the published second draft report and determination, there are some formalities that we need to observe, that are different from a general discussion at any other time.

Specifically,

1. AEMO will need to take our own record of the discussion

2. AEMO may consider feedback provided during the meeting as we would a submission to the second draft report.

3. AEMO will not publish our meeting record, but may make reference to the discussion in our consideration of submissions and in the text of our final determination and procedures and will provide the meeting presentation.

Online forum housekeeping

1. Please mute your microphone, this helps with audio quality as background noises distract from the information being shared.

2. Please switch off your video, AEMO will be showing a presentation.

3. We ask that you utilise the Chat function for any questions or comments you may have if you are unable to use audio.

4. If you have dialled in via phone, could you please email ercf@aemo.com.au your name and organisation for our records.

5. Be respectful of all participants and the process
   1. Speak one at a time – refrain from interrupting others.
   2. Share the oxygen – ensure that all members who wish to have an opportunity to speak are afforded a chance to do so.
   3. Maintain a respectful stance toward towards all participants.
   4. Listen to other points of view and try to understand other interests.
   5. Share information openly, promptly, and respectfully.
   6. If requested to do so, hold questions to the end of each presentation.
   7. Remain flexible and open-minded, and actively participate in meetings.

The proposed change

Background

MSATS Standing Data Review (MSDR) relevant background:

- https://aemo.com.au/consultations/current-and-closed-consultations/msats-standing-data-review

- November 2018, pre-consultation industry workshop
- Early 2019, MSDR put on hold due to other priorities/projects
- December 2019, sector-by-sector presentations
- February 2020, pre-consultation industry workshop
- February 2020, consultation commenced

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MSDR Guiding Principles

- Efficient:
  - To have standing data available to support the efficient operations of the electricity market.
  - Changes do not increase barriers to market entry or competition.

- Flexible and future focussed:
  - Design flexibility so that standing data supports the current and future electricity market.
  - All data must be complete, accurate, and useful.

- Improve retail outcomes for customers:
  - Provide data supporting the CDR legislative reform.
  - Provide data supporting wholesale demand response participants.

- Facilitate new market structures and roles:
  - Facilitate existing roles and reforms such as competitive metering.
  - Enable future market roles and structures such as embedded network reforms.

- Transparency of metering compliance:
  - Provide data for transparency of compliance for market participants and maintenance for metering installations.
  - Appropriate and timely data for maintenance of metering installations.

- Shared understanding of connection point information:
  - Provide appropriate market participants and other authorised parties with a consistent, full, and shared understanding of each connection point.

Approach to design

Following the information provided at both workshops, AEMO proposed changes to the MSATS Standing Data to add, update or remove fields in the MSATS Procedures in respect of data in the following categories:

- Metering Installation Information within the Metering Register Information:
  - General metering installation information.
  - Metering installation transformer information.
  - Register-level information.
  - Connection and metering point details.
  - Metering installation location information.
  - Meter read and estimation information.
  - Meter communications information.

- NMI Details within MSATS:
  - Address Structure.
  - Feeder Class.
  - Transmission Node Identifier 2 (TNI2).

Data transition

Data transition

- One of the key issues throughout the first and second stages of consultation has been how to handle the collection and the movement of new and modified data.

- The changes include:
  - 23 new fields
  - 27 changed fields
  - 28 removed fields
  - 47 fields remain unchanged

- AEMO proposes to release these changes over a minimum of two schemas:
  - First schema – new and amended fields
  - Second schema – removed fields

- Where possible AEMO intends to build the new requirements with future flexibility inbuilt, this means building validations into the change requests rather than the aseXML. Change requests are configurable.

Data transition inputs

- AEMO sought feedback during the second stage of consultation and during the last week on various methods of populating the new and amended fields, removing data from MSATS, and how industry would like to know about the data changes.

- Today's discussion pulls together that information to review the preferred approaches to handling the volumes of:
  - Data flows into MSATS,
  - Timeframes to update data, and
  - Notifications to relevant participants.

- AEMO will discuss each of these by the affected tables in MSATS.

CATS_NMI_Data

New fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
ConnectionConfiguration	Mandatory	Enumerated list validated in CR, optional in aseXML	Significant – from 300k to 2.3m including: 750k; 1m 1.7m; 1.8m	LNSP provides	N/A	12 months OR populated as part of BAU activity (CPPAL)	Bulk notification report	Transition period for population
GNAFPID	Required	Free text	From 300k to 1.8m, including 750k	AEMO provides	N/A	Nil	- 8x Existing CR notifications - 7x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
HouseNumberTo	Required	Number up to 5 digits validated in the CR, optional in aseXML	From 1k-500k, including 15k or TBD/TBC	LNSP provides	N/A	Nil	- 8x Existing CR notifications - 7x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
MeterMalfunctionExemptionExpiry Date	Required	Date	From nil to 1.8m, including 750k	AEMO provides	N/A	Nil	- 8x Existing CR notifications - 7x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
MeterMalfunctionExemptionNumber	Required	Free text	AEMO provides	AEMO provides	N/A	Nil	- 8x Existing CR notifications - 7x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold

New fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
SectionNumber	R (NSW & ACT) O (other jurisdictions)	Free text	From 1k to 750k, including: 50k; 500k.	LNSP to provide	N/A	- 2x responses stating info will be provided after BAU activity - Remainder Nil	- 5x Existing CR notifications - 6x Bulk notification report (if high volume) - 2x N/A - 1x N/A noting Optional in QLD	Need firmer majority on notifications
DPNumber	R (NSW & ACT) O (other jurisdictions)	Free text	From 1k to 750k, including: 50k; 500k.	LNSP provides	N/A	- 2x responses stating info will be provided after BAU activity - Remainder Nil	- 5x Existing CR notifications - 6x Bulk notification report (if high volume) - 2x N/A - 1x N/A noting Optional in QLD	Need firmer majority on notifications
SharedPointIsolationFlag	MANDATORY	Enumerated list validated in CR, optional in aseXML	From 300k to 2.3m, including: 750k; 800k; 1m; 1.8m.	LNSP provides	N/A	12 months for missing information (SAPN) or N/A (CPPAL)	- 5x Existing CR notifications - 9x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
TransmissionNodeIdentifier2	Required	Enumerated list validated in CR, optional in aseXML	AEMO provides	AEMO provides	N/A	AEMO populates	Bulk	Should be implemented with 5MS – Oct 2021

Amended fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
BuildingOrPropertyName	Required (formerly Address Option 1)	No change	From 1k to 500k, largely "TBD"	LNSP provides	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	Majority preference for "Nil" but a 12-month transition may improve data quality Need firmer majority on notifications
DeliveryPointIdentifier	Required (formerly Optional)	No change	N/A as AEMO populates	LNSP/ AEMO to provide	N/A	Nil or 12 months for missing information	No clear majority preference	No majority preference as AEMO provides
Feeder Class	REQUIRED in QLD where relevant OPTIONAL in all other jurisdictions (formerly Optional)	No change	Largely TBC. 1 response 1.5m	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	Existing CR notification	Majority preference for "Nil" but a 12-month transition may improve data quality Need firmer majority on notifications

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Amended fields - Addresses

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
FlatOrUnitNumber	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
FlatOrUnitType	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
FloorOrLevelNumber	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
FloorOrLevelType	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
HouseNumber	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
HouseNumberSuffix	Required (formerly Address	No change	Largely "TBC". 1 response 1.5m; 1	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be	- 9x Existing CR notifications - 5x Bulk	May require the optionality of bulk notifications past a certain threshold

Amended fields - Addresses

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
LocationDescriptor	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
LotNumber	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
StreetName	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
StreetSuffix	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
StreetSuffix	Required (formerly Address Option 1)	No change	Largely "TBC". 1 response 1.5m; 1 response 1k	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be provided after BAU activity - Remainder Nil	- 9x Existing CR notifications - 5x Bulk notification report (if high volume)	May require the optionality of bulk notifications past a certain threshold
StreetType	Required (formerly Address	No change	Largely "TBC". 1 response 1.5m; 1	LNSP to provide	- 5 "Yes" - 5 "No" - 1 "N/A"	- 1x 12 months - 2x responses stating info will be	- 9x Existing CR notifications - 5x Bulk	May require the optionality of bulk notifications past a certain threshold

Removed fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
UnstructuredAddress1	Formerly Address Option 2	N/A	N/A	LNSP to update new address fields	Majority support for yes	12 months (CPPAL), 3-4 years (AusNet)	N/A	AEMO would make snapshots available for extraction upon participant request
UnstructuredAddress2	Formerly Address Option 2	N/A	N/A	LNSP to update new address fields	Majority support for yes	12 months (CPPAL), 3-4 years (AusNet)	N/A	AEMO would make snapshots available for extraction upon participant request
UnstructuredAddress3	Formerly Address Option 2	N/A	N/A	LNSP to update new address fields	Majority support for yes	12 months (CPPAL), 3-4 years (AusNet)	N/A	AEMO would make snapshots available for extraction upon participant request

CATS_Register_Identifier

New fields

- No new fields in this MSATS table

Amended fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Controlled Load	Mandatory	Enumerated list validated in CR, optional in aseXML	Negligible through to 2.8 million including: 0; 1k; 20k; 540k; 1.2m; 1.4m; 2.8m.	- 18 x Conversion from current field, participant (MPB) then populates missing information - 1 x AEMO populates based on Network Tariff rules	- 4 x No - 8 x Yes - 1 x Provided data conversion (to enumerated) occurs for current field, dispose of old data (from participant visibility) and retain history	- 2 x 12 months - 1 x 12 months for missing information - 1 x Until meter is transitioned to 5MS or the Meter register needs updating for any other reason - 15 x Nil	- 5 x existing CR notification - 7 x bulk report - 3 x existing CR for low volume, bulk for high volume - 1 x bulk or replication - 1 x no notification	May require the optionality of bulk notifications past a certain threshold
Network Tariff Additional Information	Required	No change	Negligible/ ad-hoc through to 500k.	19 x Participant (MPB) provides	- 4 x No - 7 x Yes	- 1 x 12 months for missing information - 1 x Until meter is transitioned to 5MS or the Meter register needs updating for any other reason - 2 x BAU provision if new data arises - 15 x Nil	- 4 x existing CR notification - 2 x bulk report - 3 x existing CR for low volume, bulk for high volume - 1 x bulk or replication - 1 x no notification	May require the optionality of bulk notifications past a certain threshold

Amended fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Time Of Day	Mandatory	Enumerated list validated in CR, optional in aseXML	Negligible through to 3.4 million including: 0; 1k; 400k; 470k; 540k; 1m; 1.4m; 3.4m.	- 18 x Conversion from current field, participant (MPB) then populates missing information - 1 x AEMO populates based on Network Tariff rules	- 4 x No - 7 x Yes - 1 x Provided data conversion (to enumerated) occurs for current field, dispose of old data (from participant visibility) and retain history	- 2 x 12 months - 1 x 12 months for missing information - 1 x Until meter is transitioned to 5MS or the Meter register needs updating for any other reason - 15 x Nil	- 5 x existing CR notification - 7 x bulk report - 3 x existing CR for low volume, bulk for high volume - 1 x bulk or replication - 1 x no notification	May require the optionality of bulk notifications past a certain threshold

Removed fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Demand 1	N/A	N/A	N/A	N/A	3 x Yes	N/A	N/A	
Demand 2	N/A	N/A	N/A	N/A	3 x Yes	N/A	N/A	

CATS_Meter_Register

New fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Current Transformer Accuracy Class	REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 3K, 9K	Participant provides	No – 8 responses Yes – 2 responses	One response indicated 12 month for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Current Transformer Location	REQUIRED NOT USED for NCONUML, BULK, XBOUNDRY and INTERCON	Free test	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 3K, 9K	Conversion from previous Transformer fields, participant then populates missing information	No – 8 responses Yes – 3 responses One response indicated 'Provided existing data is converted to new fields, dispose of data (from participant visibility) and do not retain history'	One response indicated 12 month for missing information and another indicated just 12 months	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Current Transformer Ratio	REQUIRED NOT USED for NCONUML, BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 3K, 9K	Conversion from previous Transformer fields, participant then populates missing information	No – 8 responses Yes – 3 responses One response indicated 'Provided existing data is converted to new fields, dispose of data (from participant visibility) and do not retain history'	One response indicated 12 month for missing information and 2 others indicated just 12 months	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	

New fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Current Transformer Test	REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 3K, 9K	Participant provides	No – 9 responses Yes – 1 response	One response indicated 12 month for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Current Transformer Test Date	REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON	Date	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 3K, 9K	Participant provides	No – 9 responses Yes – 1 response	One response indicated 12 month for missing information and another indicated just 12 months	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Current Transformer Type	REQUIRED NOT USED for NCONUML, BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 3K, 9K	Conversion from previous Transformer fields, participant then populates missing information	No – 8 responses Yes – 3 responses One response indicated 'Provided existing data is converted to new fields, dispose of data (from participant visibility) and do not retain history'	One response indicated 12 month for missing information and 2 others indicated just 12 months	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	

New fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
GPS Coordinates Lat	MANDATORY as per the description REQUIRED as per the description OPTIONAL as per the description	Validated in CR, xsd:decimal minIncl = 0 maxIncl = 99.9999999 totdig = 2 fracdig = 7	230K (all), 750K 500K, 500K, 50K, 20K, Upto 1.4 mil, Approx 2.9 mil, 600K-800K, 1.5 mil	Participant provides	No – 8 responses Yes – 1 response	REQUIRED for 36 months from effective date of the MSATS Procedures, MANDATORY thereafter	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
GPS Coordinates Long	MANDATORY as per the description REQUIRED as per the description OPTIONAL as per the description	Validated in CR, xsd:decimal minIncl = 0 maxIncl = 999.9999999 totdig = 3 fracdig = 7	230K (all), 750K 500K, 500K, 50K, 20K, Upto 1.4 mil, Approx 2.9 mil, 600K-800K, 1.5 mil	Participant provides	No – 8 responses Yes – 1 response	REQUIRED for 36 months from effective date of the MSATS Procedures, MANDATORY thereafter	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Voltage Transformer Accuracy Class	REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 1600	Participant provides	No – 7 responses Yes – 4 responses	One response indicated 12 month for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	

New fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Voltage Transformer Accuracy Class	REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 1600	Participant provides	No – 7 responses Yes – 4 responses	One response indicated 12 month for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Voltage Transformer Location	REQUIRED NOT USED for NCONUML, BULK, XBOUNDRY and INTERCON	Free text	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 1000, 1600	Conversion from previous Transformer fields, participant then populates missing information	No – 7 responses Yes – 4 responses One response indicated 'Provided existing data is converted to new fields, dispose of data (from participant visibility) and do not retain history'	One response indicated 12 month for missing information and 2 others indicated just 12 months	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Voltage Transformer Ratio	REQUIRED NOT USED for NCONUML, BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 1000, 1600	Conversion from previous Transformer fields, participant then populates missing information	No – 6 responses Yes – 5 responses One response indicated 'Provided existing data is converted to new fields, dispose of data (from participant visibility) and do not retain history'	One response indicated 12 month for missing information and 2 others indicated just 12 months	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	

New fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Voltage Transformer Test	REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 1600	Participant provides	No – 7 responses Yes – 4 responses	One response indicated 12 month for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Voltage Transformer Test Date	REQUIRED NOT USED for BULK, XBOUNDRY and INTERCON	Date	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 5K, 1600	Participant provides	No – 8 responses Yes – 4 responses	One response indicated 12 month for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Voltage Transformer Type	REQUIRED NOT USED for NCONUML, BULK, XBOUNDRY and INTERCON	Enumerated list validated in CR, optional in aseXML	Some indicated LNSP/MPB/MP to provide, other indicated figures 30K, 1000, 1600	Conversion from previous Transformer fields, participant then populates missing information	No – 6 responses Yes – 5 responses One response indicated 'Provided existing data is converted to new fields, dispose of data (from participant visibility) and do not retain history'	One response indicated 12 month for missing information and 2 others indicated just 12 months	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	

Amended fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Hazard	Required	No change	230,000 (all) 50% 100, 100 Upto 1.4 million 1,500,000	Participant provides	No – 4 responses Yes – 6 responses	One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Last Test Date	Required	Date	230,000 (all) 1000, 1000 Approx 2.9 mil 50,000	Participant provides	No – 8 responses Yes – 4 responses	One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Location	Required	Free text	230,000 (all) 50% 100, 100 Upto 1.4 million 1,500,000	Participant provides	No – 4 responses Yes – 6 responses	One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes	
Manufacturer	Mandatory	Enumerated list validated in CR, optional in aseXML	230K (all), 710K 1000, 1000, 30K, 30K, Upto 1.4 mil, Approx 2.9 mil, 600K-800K, 1.5 mil	Convert current free text, participant then corrects any discrepancies	No – 5 responses Yes – 6 responses	Three responses indicated 12 months and One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes and some indicated just 'Bulk'	

Amended fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Model	Mandatory	Enumerated list validated in CR, optional in aseXML	230K (all), 710K 1000, 1000, 30K, 30K, Upto 1.4 mil, Approx 2.9 mil, 600K-800K, 1.5 mil	Convert current free text, participant then corrects any discrepancies	No – 5 responses Yes – 6 responses	Three responses indicated 12 months and One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes and some indicated just 'Bulk'	
Next Scheduled Read Date	MANDATORY for manually read meters, REQUIRED for Type 7 metering installations with calculated metering data where the forward estimate process is using thea BLOCK methodology, and NOT USED for remotely read meters	Date	100, Approx 1500, 1 mil	N/A	No – 5 responses Yes – 3 responses	One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes. *'Why does the MDP need to update this field? Currently NSRD are sent to Market via a CR5070/5071 CR's. These CR's provide the notification to participants of reading dates. Making the field mandatory will require MDP's to also update this in addition to generating the 5071 txn. Is this what you really want?'*	

Amended fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Read Type Code	Required	Free text	230K (all), 1000, 30K, 600K, Upto 1.4 mil, Approx 2.9 mil, 600K-800K, 1.2 mil	One response indicated 'AEMO populates based on rules eg if type 6 then MV3M' and rest 'Participant provides'	No – 4 responses Yes – 6 responses	One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes and some indicated just 'Bulk'	
Test Result	Required	Enumerated list validated in CR, optional in aseXML	230K (all), 1000, 10K, Approx 2.9 mil, 1.8 mil	Participant provides	No – 4 responses Yes – 6 responses	One response indicated 12 months for missing information	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes and some indicated just 'Bulk'	
Use	Mandatory	Enumerated list validated in CR, optional in aseXML	230K (all), 710K 1000, 100, Approx 2.9 mil, 600K-800K, 1.5 mil	One response indicated 'Participant provides', rest 'Conversion from existing field, participant then populates missing information'	No – 5 responses Yes – 7 responses One response indicated 'Provided existing data is converted to new fields, dispose of data (from participant visibility) and do not retain history'	Four responses indicated 12 months, one response indicated 'Until meter is transitioned to 5MS or the Meter register needs updating for any other reason'	Most responses indicated 'Existing CR Notification' and some indicated 'Bulk Notification' for large volumes and some indicated just 'Bulk'	

Removed fields

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Additional Site Information			No response	No response	No – 10 responses Yes – 5 responses One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 3 to 4 years	Two responses indicated 'Existing CR notification'	
Asset Management Plan			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Calibration Tables			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

Removed fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Communications Equipment Type			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Communications Protocol			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Constant			No response	No response	No – 10 responses Yes – 5 responses One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

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Removed fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Data Conversion			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Data Validations			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Estimation Instructions			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

Removed fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Measurement Type			No response	No response	No – 15 responses Yes – 0 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Next Test Date			One response indicated 1,800,000	No response	No – 16 responses Yes – 0 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Password			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

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Removed fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Point			No response	No response	No – 14 responses Yes – 2 responses One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Program			No response	No response	No – 16 responses Yes – 0 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Remote Phone Number			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

Removed fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Route			No response	No response	No – 12 responses Yes – 0 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Test Calibration Program			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Test Performed By			No response	No response	No – 15 responses Yes – 1 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

Removed fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Test Result Notes			No response	No response	No – 13 responses Yes – 2 responses One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Transformer Location			No response	No response	No – 12 responses Yes – 3 responses One response indicated '*As data is being converted to a new field, dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
Transformer Ratio			No response	No response	No – 12 responses Yes – 3 responses One response indicated '*As data is being converted to a new field, dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

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Removed fields - Continued

Data Element Name	MSDR Requirement	MSATS System Requirement	Estimated volume of data to change	Initial population	2-dimensional history	Transition period	Notifications	AEMO comments
Transformer Type			No response	No response	No – 12 responses Yes – 3 responses One response indicated '*As data is being converted to a new field, dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	
User Access Rights			No response	No response	No – 15 responses Yes – 0 response One response indicated '*Dispose of data (from participant visibility) and do not retain history*'	One response indicated 0 years	One response indicated 'No notification' and another response indicated 'Existing CR notification'	

Next steps

Next steps

- AEMO will consider feedback from today's discussion which will assist the formulation of AEMO's consultation material and future MSDR design requirements

- Formal written submissions on the Second Draft stage should be provided to AEMO by 5.00pm on 27 July 2020.

- Final procedures and process will be published by AEMO on 7 September 2020.

- IT processes, including naming conventions, will follow the regular AEMO development path.

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Thank you for your participation