

1. Proposed Changes

This section lists the changes proposed by participants or by AEMO since the last completed consultation *MDFF Spec*

- *Section A covers the proposed changes to the MDFF Spec*

NOTE: No proposed changes have been populated as this document is being treated as a brand new document. Please complete where necessary

Please include your comments in the 'Participant Comment' column below.

A. Proposed Changes to the MDFF Spec

| Item | Description | Participant Responses to Draft Determination | AEMO/MSWG Comments |
|------|---|---|---|
| 1 | PROPOSED / REQUESTED CHANGES | | |
| | <p>AEMO request Participants provide feedback regarding the options provided for implementation of this specification</p> <p>The matter under consultation is in respect to Meter Data File Format Specification NEM12 & NEM13 and the proposed implementation date/s of the document.</p> <p>AEMO have provided 2 options:</p> <ol style="list-style-type: none"> 1. Implement the whole document in its totality with an effective date of 13th November 2013 (includes both solution ID's) 2. Implement solution ID 3J with an effective date of 13th November 2013, with solution 7D having an effective date of May 2014 | <p>Acumen - Since Acumen does not participate in the type 5 and 6 market we have no comment on option 1.</p> <p>Option 2 – While Acumen can see the benefit in this change, since the changes discussed affect manually read sites, we do not wholly support this change either. However, we believe the impact to Acumen will be minimal as none of the reason codes we use are impacted other than the description fields. Since this should not impact any system workflow, we accept this change as inevitable.</p> | <p>AEMO apologise for leaving off the third option on the response pack. The third option was to implement the whole document in its totality in May 2014.</p> <p>AEMO/MSWG accepts and agrees that implementation/effective date will be in line with May 2014 release schedule.</p> |

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| | | <p>Origin - Origin's preference is a release date of May 2014. This is based on the impact of the change to substitution code will have on our internal billing processes.</p> <p>EA - EnergyAustralia requests option 3, implementation date of May 2014</p> <p>Lumo - Lumo notes the two proposed dates and given the current proposals we do not believe that the changes to the meter read date can be implemented in our systems in the November 2013 timeframe but can be targeted by May 2014.</p> <p>Ausgrid - Ausgrid is in favour of the split implementation (option 2) on the grounds that our development work for the forthcoming November release have already been specified. Any changes, albeit relatively minor, need to be thoroughly reviewed and</p> | |

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| | | <p>the proposed timeframe does not permit this.</p> <p>Endeavour - Endeavour Energy prefers option 3: Implement the document in its totality with an effective date of May 2014</p> <p>Energex - Energex would like to submit our recommendation of Option 1 to implement both options on the 13th November 2013.</p> <p>AGL - AGL notes that the 1st Stage Notice provides 3 options for implementation:</p> <ol style="list-style-type: none"> 1. Implement the document in its totality with an effective date of 13th November 2013 (includes both solution ID's) 2. Implement solution ID 3J with an effective date of 13th November 2013, with solution 7D having an effective date of May 2014 3. Implement the document in its totality with an effective | |

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| | | <p>date of May 2014.</p> <p>However only 2 options are presented in this pack. AGL supports Option 3 which is to implement the document in its totality with an effective date of May 2014.</p> | |
| | <p>Specification has been produced in the new AEMO format.</p> <p>Please provide any feedback on the document as a whole.</p> | <p>Origin - No issue with the format of the document.</p> <p>EA - EnergyAustralia has provided comments below on the Glossary and sections 1-3 formatting issues.</p> <p>Ausgrid – OK</p> <p>Endeavour - In reference to the clean version of the document, the table in the glossary section is hard to read on a screen and when printed due to the chosen colours. The table in appendix E has some records in yellow text – it is not clear why these are in yellow text.</p> <p>Energex - Energex accepts</p> | <p>AEMO – All points raised by EA and Endeavour accepted</p> |

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| | | <p>the document without change.</p> <p>AGL - Agree</p> | |
| | <p>Changes to wording Any changing of wording is for clarification or to make it read better. The wording is not to change the process or intention of this specification</p> | <p>Acumen - 4.2.2 (ii) sentence does not follow on from “providing the”, could read better</p> <p>9.3 (crossed out) the underlined “RegisteredID” – is this spelt correctly</p> <p>P58 3rd line to 4th line, delete gap between lines</p> <p>Origin – agreed</p> <p>Ausgrid – OK</p> <p>Endeavour – See comments below</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | <p>AEMO – accepted</p> |
| | <p>Interpretation and Document Convention sections replaced by Glossary</p> | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> | |

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| | | <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>Section1 Introduction and section 2.1 Scope replaced by 1. Introduction</p> | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>Section 2.2.1 Scope Exclusions deleted Didn't add value</p> | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> | |

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| | | <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>Section 2.2 Intellectual Property deleted, covered in disclaimer and 1c</p> | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>Section 2.3 Related Information now Section 2 Related policies and procedures</p> | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> | |

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| | | AGL - Agree | |
| | Section 2.4 Terminology and Definitions deleted and replaced by Glossary | <p>Origin – agreed Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>New section 3. General rules and information includes:</p> <p>Information from 3.2.1 General, 3.3.1 Relationship to MSATS , 3.3.10 Data Grouping and 3.5 Provision of sample test files.</p> | <p>Origin – agreed Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | Section 3 Technical Information now Section 4 Technical information: 3.1 now 4.1 | <p>Origin – agreed Lumo – Noted no comment</p> | |

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| | | <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.1 now section 3 | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.1 now section 3 | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> | |

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| | | <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.2.1 now 3 | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.2.2 now 4.2.2 a) | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |

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| | 3.2.3 now 4.2.2 b) | <p>Origin – agreed Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – see comments below</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.2 now 4.3.2 | <p>Origin – agreed Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.3 now 4.3.3 | <p>Origin – agreed Lumo – Noted no comment</p> | |

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| | | <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.4 now 4.3.4 | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.5 to 3.3.8 now 4.3.1 | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – see comments below</p> | |

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| | | <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.9 now 4.3 d) | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | 3.3.10 now 3 | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> | |

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| | | AGL - Agree | |
| | 3.3.11 now 4.3.5 | Origin – agreed Lumo – Noted no comment Ausgrid – OK Endeavour – Agree Energex - Energex accepts the document without change. AGL - Agree | |
| | 3.4 now 1 b) and 4.2.1 | Origin – agreed Lumo – Noted no comment Ausgrid – OK Endeavour – Agree Energex - Energex accepts the document without change. AGL - Agree | |
| | 3.5 now 1 c) | Origin – agreed Lumo – Noted no comment | |

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| | | <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>3.6 now 4.3.6</p> | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>4 is now 5</p> <p>5.3</p> <p>Change for the implementation of solution ID 3J is OLD</p> <p>NextScheduledReadDate</p> | <p>Origin - The following re-wording is suggested in light of the NSRD being used for meter data provided to the LR role only and the MSATS CATS transaction 5070/5071 is not provided to the LR role: This content of this field,</p> | <p>AEMO/MSWG accepted changes with amendments:</p> <p>The NSRD provided in this file is accurate at the time the file is generated (noting this may be subject to change e.g. if route change etc.). MSATS is</p> |

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| | <p>Date(8) M/N This date is the next future read date. This field is not required for remotely read meters. This field is not required where the meter will not be read again (eg meter removed, NMI abolished, MDP will no longer be the MDP). NEW As Above plus This field is for information purposes only - MSATS is the data base of record.</p> | <p>although accurate at the time the file was created, is subject to change. MSATS is the data base of record for the NSRD.</p> <p>EA - EnergyAustralia agrees with the intent proposed for solution ID 3J however suggests the following words:</p> <p><i>The NSRD provided in this file is accurate at the date/time that this MDFF was generated noting this may be subject to change (e.g. if route change etc.). Post receipt of this file MSATS is the correct source of the NSRD.</i></p> <p>This allows for the embedded network participants to have a process to check MSATS if the meter data is not received near the previously provided NSRD to verify if the NSRD has changed since receipt of the MDFF.</p> <p>Lumo - Noted – system changes will be needed by</p> | <p>the database of record, therefore should there be a discrepancy between the NSRD in this file, MSATS shall prevail.</p> |

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| | | <p>Lumo – information required on consumer invoices – potential other system impacts - more analysis required. Suggest implementation for May 2014.</p> <p>Ausgrid – OK</p> <p>Endeavour - Agree, however given that the direction is for MSATS to be the database of record for the NSRD this field should be made Not Required for all meters.</p> <p>This will help to reduce the cost of any future system changes by not requiring the population of a field that is only for information purposes.</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL – AGL notes that as worded this will potentially cause system changes for LR</p> | |

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| | | <p>and embedded networks. This change was to be implemented on the basis of no system changes. On this basis we propose the alternative wording of:</p> <p>The NSRD provided in this file is accurate at the date/time that this MDFF was generated noting it may be subject to change (e.g. if route change etc). Post receipt of this file MSATS is the correct source of the NSRD.</p> | |
| | <p>5.4 Notes at the end of table have been moved to the top</p> | <p>Origin – agreed Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>5.5 paragraph starting “Where the same.....has moved to 5.4</p> | <p>Origin – agreed Lumo – Noted no comment</p> | |

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| | | <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>5.6 <u>IndexRead</u> removed wording that did not add value to the definition</p> | <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Ausgrid – OK</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| | <p>5 is now 6</p> <p>6.3</p> <p>Change for the implementation of solution ID 3J is OLD</p> <p>NextScheduledReadDate</p> <p>Date(8)</p> <p>M/N</p> <p>This date is the next future read date.</p> | <p>Origin - The following re-wording is suggested in light of the NSRD being used for meter data provided to the LR role only and the MSATS CATS transaction 5070/5071 is not provided to the LR role:</p> <p>This content of this field,</p> | <p>AEMO/MSWG accepted changes with amendments:</p> <p>The NSRD provided in this file is accurate at the time the file is generated (noting this may be subject to change e.g. if route change etc.). MSATS is</p> |

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| | <p>This field is not required for remotely read meters. This field is not required where the meter will not be read again (eg meter removed, NMI abolished, MDP will no longer be the MDP).</p> <p>NEW As Above plus This field is for information purposes only - MSATS is the data base of record.</p> | <p>although accurate at the time the file was created, is subject to change. MSATS is the data base of record for the NSRD.</p> <p>EA - EnergyAustralia agrees with the intent proposed for solution ID 3J however suggests the following words: <i>The NSRD provided in this file is accurate at the date/time that this MDFF was generated noting this may be subject to change (e.g. if route change etc.). Post receipt of this file MSATS is the correct source of the NSRD.</i></p> <p>This allows for the embedded network participants to have a process to check MSATS if the meter data is not received near the previously provided NSRD to verify if the NSRD has changed since receipt of the MDFF.</p> <p>Lumo- Noted – system changes will be needed by Lumo – information required</p> | <p>the database of record, therefore should there be a discrepancy between the NSRD in this file, MSATS shall prevail.</p> |

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| | | <p>on consumer invoices – potential other system impacts - more analysis required. Suggest implementation in May 2014.</p> <p>Ausgrid – OK</p> <p>Endeavour - Agree, however given that the direction is for MSATS to be the database of record for the NSRD this field should be made Not Required for all meters.</p> <p>This will help to reduce the cost of any future system changes by not requiring the population of a field that is only for information purposes.</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - AGL notes that as worded this will potentially cause system changes for LR and embedded networks. This</p> | |

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| | | <p>change was to be implemented on the basis of no system changes. On this basis we propose the alternative wording of:</p> <p>The NSRD provided in this file is accurate at the date/time that this MDFF was generated noting it may be subject to change (e.g. if route change etc). Post receipt of this file MSATS is the correct source of the NSRD.</p> | |
| <p>Version Release History</p> | <p>This document has been created by Retail Markets and Metering and will be reviewed from time to time.</p> <p>Any queries or suggestions for improvement should be addressed to Jackie Krizmanic on 9609 8811 or at NEM.MDP@aemo.com.au.</p> | <p>EA - Not sure of relevance of this information, clause 1 (c) informs can be changed. It is not constant with other procedures.</p> <p>EnergyAustralia recommends removal of two sentences.</p> <p>If to be retained suggest removal of personal name, just leave generic email of enhancements@aemo.com.au</p> | <p>AEMO/MSWG – accepted</p> <p>Deleted 1 c, removed name and phone numbers. Left the NEM.MDP@aemo.com.au email address.</p> <p>This document has been created by Retail Markets and Metering and will be reviewed from time to time.</p> <p>Any queries or suggestions for improvement should be addressed NEM.MDP@aemo.com.au.</p> |
| | <p>Put into new AEMO formatting. Updated to correct errors, clarify sections and remove and create new reason codes..</p> | <p>Ausgrid – remove second full-stop</p> | <p>AEMO - accepted</p> |

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| Glossary | Formatting of Term “MDFF” has changed in clean version to darker blue and Meaning words have become all capitals. | EA - Remove dark blue heading colour. Change Meaning to sentence case. | AEMO - accepted |
| | Glossary (d) In this document, a word or phrase that is in this style (i.e. italicised and underlined) is referencing field names for the records within the NEM12/NEM13 files. | Ausgrid – re-word (d) In this document, a word or phrase in this style (i.e. italicised and underlined) is a reference to a specific field or record within the MDFF. | AEMO/MSWG accepted (d) In this document, a word or phrase in this style (i.e. italicised and underlined) is a reference to a specific field or record within the MDFF. |
| | Glossary – Table historic data | Ausgrid – text Historic Data | AEMO - accepted |
| | Glossary – Table MDFF | Ausgrid – formatting Remove Shading | AEMO - accepted |
| Sections 1-3 | Formatting of clauses has changed in section 1 to 3 from the rest of the document; 1-3 has “(a)” remainder of document has “a)” | EA - Chose consistent clause formatting. SLP has “(a)” suggest this is adopted for first three sections also. | AEMO - accepted |
| 1(a) | This document defines the Meter Data File Format (MDFF) to be used by the Metering Data Providers (MDP) for the provision of metering data to Market Participants and Service Providers. | EA - EnergyAustralia recommends following as term service provider doesn’t include TNSP, this also consistent with the SLP This document defines the Meter Data File Format (MDFF) to be used by the <i>Metering Data Providers</i> | AEMO - accepted |

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| | | (MDP) for the provision of <i>metering data to Market Participants and Service Providers Registered Participants.</i> | |
| 1 (c) | (c) This Procedure may be amended from time to time. | Ausgrid – delete Is this required? | AEMO/MSWG – accepted deleted |
| 1 (d) | (d) If there is any inconsistency between this specification and the Rules, B2B Procedure: Meter Data Process and Metering Data Provider Services Categories D and C for Metering Installation Types 1, 2, 3, 4, 5, 6 and 7 Service Level Procedure; the Rules, B2B Procedure: Meter Data Process and Metering Data Provider Services Categories D and C for Metering Installation Types 1, 2, 3, 4, 5, 6 and 7 Service Level Procedure will prevail to the extent of that inconsistency. | Ausgrid – Re-word Good luck | AEMO/MSWG – accepted amended (c) If there is any inconsistency between this specification and the <i>Rules</i> or the following procedures the <i>Rules</i> and procedures will prevail to the extent of that inconsistency. <ul style="list-style-type: none"> • B2B Procedure: Meter Data Process • Metering Data Provider Services Categories D and C for Metering Installation Types 1, 2, 3, 4, 5, 6 and 7 Service Level Procedure. |
| 2 (e) | B2B Procedures: Meter Data Process | EA - Also include the B2B Procedures: Technical Delivery Specification, as referred to in 4.2.1 | AEMO – accepted B2B Procedures: Technical Delivery Specification added B2B Procedures: Technical |

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| | | | Guidelines for B2B Procedures has not been added as reference to MDFF in this procedure is in the business event details area in the description of the error. It does not provide any technical/process information on the MDFF. |
| 4.2.2 b) ii Bullet point 1 | Change the text to: VersionHeader#Unique ID#From#To.zip | Endeavour - Removed underline and italics for the word 'VersionHeader' because it is not referencing the VersionHeader field in the NEM12/NEM13 Remove dot after 'zip' as it is not part of the filename format | AEMO/MSWG - accepted |
| 4.2.2 b) ii Bullet point 2 | Change the text to: Example = nem12#0123456789012345#mda1#retail1.zip | Endeavour - Removed dot after 'zip' as it is not part of the filename format | AEMO - accepted |
| 4.2.2 b) ii Bullet point 3 | Change the text to: VersionHeader - 5 alphanumeric characters - "NEM12" or "NEM13". | Endeavour - Removed underline and italics for the word 'VersionHeader' because it is not referencing the VersionHeader field in the NEM12/NEM13 | AEM/MSWG - accepted |
| 4.2.2 b) ii Bullet | Change the text to: | Endeavour - Remove underline and italics for the | AEMO/MSWG accepted part. Re-word not accepted. |

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| point 4 | <i>VersionHeader</i> must match the <u><i>VersionHeader</i></u> value in NEM12 or NEM13 | <p>first ‘<i>VersionHeader</i>’ because it is not referencing the <i>VersionHeader</i> field in the NEM12/NEM13.</p> <p>Reworded the last part of the sentence to make it clearer.</p> | |
| 4.2.2 b) ii Bullet point 6 | From - A valid Participant ID. The accredited <i>Service Provider</i> as published in MSATS that generates the file. | <p>EA - Change to From - A valid Participant ID. The accredited <i>Service Provider</i> MDP as published in MSATS that generates the file. This is consistent with 1(a) of the document and removes any ambiguity that LNSP participant ID can be used for sending meter data.</p> <p>AEMO is the only other participant that can send meter data for SCADA, they are listed a MDP in MSATS therefore term <i>Service Provider</i> is not applicable.</p> <p>Ausgrid - From – The MSATS Participant ID of the accredited <i>Service Provider</i> that generates the file.</p> | <p>AEMO/MSWG – accepted and re-worded</p> <ul style="list-style-type: none"> From – The MSATS Participant ID of the MDP that generates the file. |
| 4.2.2 b) ii Bullet | To - A valid Participant ID. The accredited <i>Service Provider</i> as published in MSATS that generates the file. | <p>EA - Change to From - A valid Participant ID.</p> | <p>AEMO/MSWG – accepted and re-worded.</p> |

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| point 7 | | <p>The accredited <i>Service Provider</i> MDP as published in MSATS that generates the file. This is consistent with 1(a) of the document and removes any ambiguity that LNSP participant ID can be used for sending meter data.</p> <p>AEMO is the only other participant that can send meter data for SCADA, they are listed a MDP in MSATS therefore term <i>Service Provider</i> is not applicable.</p> <p>Ausgrid - To – The MSATS Participant ID of the accredited <i>Service Provider</i> that generates the file.</p> | To - The MSATS participant id of the intended <i>Market Participant, Registered Participant</i> or <i>Service Provider</i> . |
| 4.2.2 b) ii Bullet point | The Participant ID is as published in MSATS. | Ausgrid – delete This is not correct. The case of churn data, the From MDP will not be as per MSATS. | AEMO - accepted |
| 4.3.1 b) | Where no interval values exist (<i>IntervalValue</i>) the field must contain a zero (0) value and have a <i>QualityFlag</i> value of “N” (null) in the data quality field (<i>QualityMethod</i>). | Endeavour – re-word Where no interval values exist then the <i>IntervalValue</i> field must contain a value of zero (0) and the <i>QualityMethod</i> field must have a value of “N”. | AEMO/MSWG - accepted reworded. Where no interval values exist then the <i>IntervalValue</i> field must contain a value of zero (0) and the <i>QualityFlag</i> field must have a value of “N”. |

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| 4.3.1 c) | A null value is not allowed in the quantity field of the NEM13 file. | <p>Endeavour – Reword to make it clearer that the intent of this clause is that a value of N is not allowed. The word ‘null’ is used in this document to indicate that a field is not populated with a value.</p> <p>A value of “N” is not allowed in the quantity field in the NEM13 file.</p> | AEMO/MSWG - not accepted. The statement advises that a null value is not allowed (blank) therefore a value must be provided. “N” is for no value. |
| 4.3.1 d) | Commas are not permitted as valid characters in any data field – whatever the data type. | Ausgrid – re-word Commas are not permitted in any data field. | AEMO/MSWG -accepted |
| 4.3.2 a) | All components of the DateTime fields are two digits. | Ausgrid – delete This is repeated in each of the following clauses. | AEMO/MSWG - accepted deleted the sentences from b, c & d. |
| 4.3.2 b) | Date(8) format means a reverse notation date field (i.e. CCYYMMDD) with no separators between its components (century, years, months or days). All components of the date must be given as double digits. The "8" indicates that the total field length is always 8 characters. eg. "20030501" is the 1st May 2003. | Ausgrid – re-word (century, years, months and days). | AEMO - accepted |
| 4.3.2 c) | DateTime(12) format means a reverse notation date-time field (i.e. CCYYMMDDhhmm) with no separators between its components (century, years, months, | Ausgrid – re-word(century, years, months, days, hours, and minutes) | AEMO - accepted |

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| | <p>days, hours, minutes). All components of the date-time field must be given as double digits. The "12" indicates that the total field length is always 12 characters. eg. 200301011534 is 15:34 on 1st January 2003.</p> | | |
| 4.3.2 d) | <p>DateTime(14) format means a reverse notation date-time field (i.e. CCYMMDDhhmmss) with no separators between its components (century, years, months, days, hours, minutes and seconds). All components of the date-time field must be given as double digits. The "14" indicates that the total field length is always 14 characters. eg. 20030101153445 is 15:34.45 on 1st January 2003.</p> | <p>Ausgrid – re-word(century, years, months, days, hours, minutes and seconds).</p> | <p>AEMO - accepted</p> |
| 4.3.3 a) | <p>Interval metering data is presented in time sequence order, with the first interval for a day being the first interval after midnight for the interval length that is programmed into the meter. Refer to the IntervalLength field in 5.3.</p> | <p>Ausgrid – re-word with the first interval for a day being the first interval after midnight. Interval data can be presented in multiples of the interval length programmed into the meter.</p> | <p>AEMO/MSWG – not accepted SLP allows MDP's and other parties to have a bilateral agreement to provide intervals in lengths other than what is programmed into the meter.</p> |
| 5 | <p>If any data changes in the 200 record, a new 200 record must be provided for the subsequent 300 record (i.e. if the UOM, IntervalLength or NMISuffix changes).</p> | <p>Endeavour – re-word If any data changes in the 200 record, a new 200 record must be provided for the subsequent 300 record (e.g. if the UOM, IntervalLength or</p> | <p>AEMO - accepted</p> |

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| | | <p><i>NMISuffix</i> changes). Change ie to eg as the listing is not a definitive listing but examples only</p> | |
| 5.2 | <p>From participant field Valid Participant ID as published in MSATS of the <i>Service Provider</i> that generated the file. This will usually be the MDP.</p> | <p>Endeavour – re-word The <i>Service Provider</i> that generated the file. This will usually be the MDP.</p> <p>Allowable value: Valid Participant ID as published in MSATS. Reworded to make it clearer through the use of a consistent format</p> | <p>AEMO/MSWG – accepted Same wording used as 4.2.2 (a)</p> |
| | <p>To participant field Valid Participant ID as published in MSATS. The <i>Market Participant or Service Provider</i> who is entitled to the data.</p> | <p>Endeavour – reword The <i>Market Participant or Service Provider</i> who is entitled to the data. Allowable value: Valid Participant ID as published in MSATS. Reworded to make it clearer through the use of a consistent format</p> | <p>AEMO/MSWG – accepted Same wording used as 4.2.2 (a)</p> |

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| 5.3 | <p>Register id field Interval meter register identifier. Defined the same as the <u>RegisterID</u> field in the CATS_Register_Identifier table. The value should match the value in MSATS. E.g. "1", "2", "E1", "B1". The <u>RegisterID</u> is:</p> <ul style="list-style-type: none"> ▪ Mandatory for Type 5 metering data when the sender of the MDFF file is the nominated MDP in MSATS; ▪ Required when providing <i>historical data</i>; and Not required for Types 1-4 or when sending the data to another MDP (eg meter churn data). | <p>Endeavour – re-word Required when providing <i>historical data for type 5</i>; and Not required for Types 1-4, or Type 7 or when sending the data to another MDP (eg meter churn data). For completeness and clarity added type 5 to the 'required' criteria and Type 7 to the 'not required' criteria</p> | <p>AEMO/MSWG – accepted Removed reference to historical data as it's mandatory for type 5 regardless if its current or historical. Added type 7 to Not required</p> |
| 5.4 | <p>Interval value field Numeric(sx.y) Refer Section 7.2 for details on the format of this number.</p> | <p>Endeavour – incorrect reference Numeric(sx.y) Refer Appendix B for details on the format of this number.</p> | <p>AEMO - accepted</p> |
| 5.4 | <p>Qualitymethod field If quality flag = "A", "N" or "V" then no method flag is required.</p> | <p>Endeavour – Format :In the form QMM, where quality flag (Q) = 1 character and method flag (MM) = 2 character Removed underline and italics and made it consistent with the corresponding field in the NEM13</p> | <p>AEMO/MSWG - accepted</p> |

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| | <p>updateDateTime field This field is not required if the IntervalValues for the entire day are nulls.</p> | <p>Endeavour – re-word This field is not required if the QualityMethod is “N”</p> | <p>AEMO/MSWG - accepted</p> |
| 5.5 | <p>The details identifying when a 400 record is required need to be re-inserted.</p> | <p>Ausgrid – re-insert Where the same QualityMethod and ReasonCode apply to all IntervalValues in the 300 record, the QualityMethod, ReasonCode and ReasonDescription in the 300 Record must be used. If either of these fields contains multiple values for the IntervalValues, the QualityMethod in the 300 record must be set to “V” and the 400 record must be provided.</p> | <p>AEMO/MSWG – part accepted. New wording inserted. This record is mandatory where the <i>QualityFlag</i> is ‘V’ in the 300 record or where the quality flag is ‘A’ and reason codes 79 and 89 are used.</p> |
| Appendix A | Removed Transcode T | <p>Origin – agreed Lumo – Noted no comment Ausgrid – OK</p> | |

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| | | <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| Appendix B | Allowed Values in the UOM Field | <p>Ausgrid – question What does Integrated mean?</p> <p>Origin – agreed</p> <p>Lumo – Noted no comment</p> <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | AEMO/MSWG – agreed to delete column as it added not value |
| Appendix C | Meaning of Quality Flag – E Estimated data. (ie forward estimate) | <p>Ausgrid – reword Forward Estimations – Data</p> | AEMO/MSWG – accepted |

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| | | <p>created to support the settlement process pending a meter reading event.</p> <p>For consistency with Metrology Procedure Part B.</p> | <p>Meanings changed to refer to Metrology Procedure part B.</p> <p>Updated table to ensure the use of italics and underlining were used correctly.</p> |
| | <p>Meaning of Quality Flag – F Substitutions that are considered to be of a permanent or final nature and will not be replaced by actual data.</p> | <p>Ausgrid – reword Substitutions that are considered to be of a permanent or final nature and would not normally be replaced by actual data.</p> | <p>AEMO/MSWG – accepted</p> <p>Meanings changed to refer to Metrology Procedure part B.</p> <p>Updated table to ensure the use of italics and underlining were used correctly.</p> |
| | <p>Meaning of quality flag – N For intervals or periods that are NULL (i.e. no data exists).</p> | <p>Endeavour – re-word For intervals that are NULL (i.e. no data exists).</p> | <p>AEMO/MSWG – accepted</p> <p>Meanings changed to refer to Metrology Procedure part B.</p> <p>Updated table to ensure the use of italics and underlining were used correctly.</p> |
| <p>Appendix D</p> | <p>Appendix D New methods 19, 57, 58, 66, 67, 68 & 75 added to align with Metrology Part B</p> | <p>Origin – agreed Lumo – Noted no comment</p> <p>Ausgrid – OK</p> | |

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| | | <p>Endeavour – Agree</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - Agree</p> | |
| <p>Appendix E</p> | <p>New codes Removed obsolete codes – there were either replaced with new codes or removed altogether. New table created for the newly made obsolete codes</p> <ol style="list-style-type: none"> 1. Non-obsolete reason code should not be re-used: <ol style="list-style-type: none"> a. Reason Code 19 should not be used for “Re-calculated based on actual reads” b. Reason Code 30 should not be used for “NSRD window expired” 2. The heading for the obsolete list should be: Obsolete Reason Code (Only to be used when providing historical data) 3. The following Reason Code should be added to the obsolete list: Reason Code 19 (Consumer wanted) | <p>Origin - Preliminary analysis indicates the change to the substitution codes will have an impact on our billing processes and the provision of information as to why no actual read was taken.</p> <p>EA - Formatting of reason codes needs fixing, yellow text to be removed. Reason code 30, is listed in both lists, is it obsolete or not?</p> <p>Lumo - Lumo notes that the codes which have been replaced were obsolete. Therefore there should be no issues in replacing those codes.</p> | <p>AEMO/MSWG – accepted 19 now put down in the obsolete section. 72 removed from the obsolete section and reason code description that was 19 is now 72.</p> <p>30 in reason codes to become 62. 30 to remain in obsolete table Added extra wording to obsolete reason code heading.</p> |

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| | <p>4. The following Reason Code should be removed from the obsolete list: Reason Code 72 (Meter/equipment changed)</p> | <p>Endeavour – See comments below</p> <p>Energex - Energex accepts the document without change.</p> <p>AGL - AGL notes that this will require system changes and at a minimum this component will be required to be implemented in May 2014</p> <p>Endeavour</p> <p>1. Reason Code 19 and 30 are currently non-obsolete reason code. Only current obsolete reason code should be reused.</p> <p>2. Similar to the heading in the current version of the document, there should be a statement on when obsolete reason code can use.</p> <p>3. Reason Code 19 has</p> | |

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| | | <p>been made obsolete through the review and should be added to this list</p> <p>4. Reason 72 is currently obsolete and should not be listed in the new obsolete list.</p> | |
| | <p>Obsolete codes – own appendix</p> | <p>Ausgrid - Maybe the Obsolete Codes should be in their own appendix.</p> | <p>AEMO/MSWG – accepted Appendix F created</p> |
| | <p>Formatting Reason code 30 is listed in both lists</p> | <p>EA - Formatting of reason codes needs fixing, yellow text to be removed. Reason code 30, is listed in both lists, is it obsolete or not?</p> | <p>AEMO – accepted see comments above</p> |
| <p>Appendix G & H</p> | <p>Suggest inclusion of Numbering for examples provided</p> | <p>EA - A number of examples are provided in Appendix G and H, numbering or clauses would help when referencing these. Suggest adding numbers/clauses with consideration given to the AEMO style good.</p> | <p>AEMO – accepted These are now numbered and have been moved to Appendix H & I due to creating a new appendix for obsolete codes</p> |
| <p>Appendix G</p> | <p>Example: metering data with configuration change – type 5 200,NCDE007777,E1Q1B1,3,B1,N1,METSER456,kWh,30,20040902</p> | <p>EA - 200,NCDE007777,E1Q1B1,3,B1,N1,METSER456423,kWh,30,20040902</p> <p>As this is the day of meter change this should be the old</p> | <p>AEMO - accepted</p> |

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| | | meter number. | |
| | NEM12 & NEM 13 file Format Clarifications | Ausgrid – The details included in this document should be incorporated into the specification, corrections should be made and the need for the Clarifications document reviewed. | AEMO - accepted |
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