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| metering data provision procedureS |
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| 1.0 | 1 September 2015 | Initial publication of Metering Data Provision Procedures |
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# Introduction

## Purpose and scope

The purpose of these Procedures is to establish the minimum requirements for the manner and form in which *retailers* and DNSPs must provide *metering data* to a *retail customer*, or their *customer authorised representative*, in response to a request for *metering data* from the *retail customer* or *customer authorised representative*.

These Procedures apply to *retailers* and DNSPs responding to requests from a *retail customer*, or their *customer authorised representative*, for their *metering data* from the *retail customer’s metering installation,* made under NER clause 7.15.5(d) and 7.15.5(f).

These Procedures must specify the:

* Manner and form in which the *retail customer’s metering data* must be provided, including:
  1. For *interval metering data*, a detailed data format and summary data format.
  2. For *accumulated metering data*, a summary data format.
* Timeframes for *retailers* and DNSPs to respond to requests made by a:
  1. *Retail customer*.
  2. *Customer authorised representatives*.
* Minimum delivery method for the requested *metering data*.

These are the *metering data provision procedures* (Procedures) made under clause 7.14 of the National Electricity Rules (NER).

These Procedures have effect for the purposes set out in the NER. The NER and the *National Electricity Law* (NEL) prevail over these Procedures to the extent of any inconsistency.

## Definitions and interpretation

The Retail Electricity Market Procedures – Glossary and Framework:

* 1. is incorporated into and forms part of this Procedure; and
  2. should be read with this Procedure.



## Related documents

Additional information relevant for these Procedures can be found in the documents listed below. These documents are available on *AEMO’s* website[[1]](#footnote-1):

|  |  |
| --- | --- |
| Title | Location |
| Retail Electricity Market Procedures – Glossary and Framework |  |
| Metering Data File Format Specification NEM12 & NEM13 |  |
| National Metering Identifier Procedure |  |

# identity verification and data delivery timeframes

1. *Retailers* and DNSPs must use reasonable endeavours to provide *metering data* to *retail customers* and *customer authorised representatives* within the delivery timeframes detailed in clauses 2.2 and 2.3.
2. Delivery timeframes do not include postal delivery time.

## Verifying the identity of a retail customer or customer authorised representative

1. *Retailers* and DNSPs must identify and publish, at a minimum, the information below required from a *retail customer* or *customer authorised representative* who requests *metering data.*
   1. Sufficient information to verify identity and relevant consents from *retail customers* and *customer authorised representatives*.
   2. The way in which a request for *metering data* can be made, e.g. email, writing, telephone, etc.
   3. The form in which the *metering data* will be provided by the *retailer* or DNSP,e.g. electronic, physical copy, etc.
2. It is the responsibility of *retailers* and DNSPs to determine what needs to be done to ensure their Privacy Act 1988 (Commonwealth) obligations have been met.
3. Where a *retailer* or DNSP receives a *metering data* request, related to one *retail customer,* and determines that the verification information provided does not include all verification information required by the *retailer* or DNSP, the *retailer* or DNSP must use reasonable endeavours to advise the *retail customer* or *customer authorised representative* within three *business days* of receiving the request for *metering data* that not all required verification information has been provided.
4. Where a *retailer* or DNSP receives a *metering data* request from a *customer authorised representative,* related to more than one but up to 100 *retail customers,* and determines that the verification information provided does not include all verification information required by the *retailer* or DNSP, the *retailer* or DNSP must use reasonable endeavours to advise the *customer authorised representative* within six *business days* of receiving the request for *metering data* that not all required verification information has been provided.
5. Where a *retailer* or DNSP receives a *metering data* request from a *customer authorised representative*, related to more than 100 *retail customers*, the timeframe for using reasonable endeavours to advise the *customer authorised representative* that the verification information provided does not include all verification information, required by the *retailer* or DNSP, must be agreed at the time the delivery timeframe is agreed under clause 2.3(c).
6. The *retailer* or DNSP notification, issued in accordance with clauses 2.1(c) and 2.1(d), must:
7. Advise the requestor that all required verification information was not provided in a manner that is consistent with the Privacy Act 1988 as determined by the *retailer* or *DNSP.*
8. Advise that the request for *metering data* is closed.
9. Advise that a new *metering data* request with complete verification information must be provided.
10. A new *metering data* request is deemed to exist when a *retail customer* or *customer authorised representative* provides the complete verification information to the *retailer* or DNSP, in accordance with clause 2.1(a).

## Retail customer request

1. Where a *retail customer* requests their *metering data,* *retailers* and DNSPs must use reasonable endeavours to deliver the *metering data* to the *retail customer* within 10 *business days*. This delivery timeframe commences from the date a *metering data* request, that includes all verification information required by the *retailer* or DNSP*,* is received by the *retailer* or DNSP.

## Customer authorised representative

1. Where a *customer authorised representative* requests *metering data* for one *retail customer,* *retailers* and DNSPs must use reasonable endeavours to deliver the *metering data* to the *customer authorised representative* within 10 *business days*. This delivery timeframe commences from the date a *metering data* request, that includes all verification information required by the *retailer* or DNSP*,* is received by the *retailer* or DNSP.
2. Where a *customer authorised representative* requests *metering data* for more than one but up to and including 100 *retail customers* in a single *business day,* *retailers* and DNSPs must use reasonable endeavours to deliver the *metering data* to the *customer authorised representative* within 20 *business days*. This delivery timeframe commences from the date a *metering data* request, that includes all verification information required by the *retailer* or DNSP*,* is received by the *retailer* or DNSP.
3. Where a *customer authorised representative* requests *metering data* for more than 100 *retail customers* in a single *business day*, the delivery timeframe must be agreed between the *retailer* or DNSP and the *customer authorised representative*.
4. Where a *retailer* or DNSP receives a *metering data* request related to more than one *retail customer*, and determines that the verification information provided for some *retail customers* does not include all verification information required by the *retailer* or DNSP, the *retailer* or DNSP must:
5. Provide *metering data* for those *retail customers* for which all verification information has been provided within the timeframes specified in clauses 2.3(b) and 2.3(c).
6. Comply with clause 2.1(e) in relation to those *retail customers* for which all verification information was not provided.

# data Delivery method

1. *Retail customers* or *customer authorised representatives* may request *retailers* or DNSPs to provide detailed *metering data* or summary *metering data*.

## Delivering summary data

1. The *retailer* or DNSP must provide the summary data electronically or physically to the *retail customer* or *customer authorised representative* whichever is requested by the *retail customer* or *customer authorised representative.*
2. Where a *retail customer* or *customer authorised representative* requests the summary data to be provided electronically, the summary data must be provided in a Portable Document Format (PDF), unless otherwise agreed with the *retail customer* or *customer authorised representative*.

## Delivering detailed data

1. The *retailer* or DNSPmust provide the detailed data electronically to the *retail customer* or *customer authorised representative*.
2. The detailed data must be constructed in a comma separated values (CSV) format, unless otherwise agreed with the *retail customer* or *customer authorised representative*.
3. Detailed data constructed in a CSV format may be delivered as a compressed file with a “.zip” extension if needed to manage file size of delivered data.

## File naming conventions

1. PDF summary data file that is delivered electronically must, at a minimum, follow the naming convention detailed below and in clause 3.3(c).
2. *NMI\_MeteringDataStartDate\_MeteringDataEndDate\_FileProvisionDate\_FileProviderName\_FileType.pdf*
3. Example:

8000000000\_20140301\_20160301\_20160305130000\_File Provider Name\_SUMMARY.pdf

1. CSV detailed data file name must, at a minimum, follow the convention detailed below and in clause 3.3(c).
2. *NMI\_MeteringDataStartDate\_MeteringDataEndDate\_FileProvisionDate\_FileProviderName\_FileType.csv*
3. Example

8000000000\_20140301\_20160301\_20160305130000\_File Provider Name\_DETAILED.csv

1. File naming fields must use the following format.

|  |  |  |
| --- | --- | --- |
| Field Name | Description | Format |
| *NMI* | NMI for the connection point. Does not include check digit or NMI Suffix. | Char(10) |
| *MeteringDataStartDate* | Date at the start of the requested *metering data* period. | Date(8) (i.e. CCYYMMDD) |
| *MeteringDataEndDate* | Date at the end of the requested *metering data* period. | Date(8) (i.e. CCYYMMDD |
| *FileProvisionDate* | Date and time when the *metering data* file is produced. | DateTime(14) (i.e. CCYYMMDDhhmmss) |
| *FileProviderName* | Name of the organisation (i.e. *retailer* or *DNSP*) providing detailed or summary data file. | VarChar(15) (not case sensitive) |
| *FileType* | “SUMMARY” for both accumulated and interval summary files.  “DETAILED” for an interval detailed file. | VarChar(10) (not case sensitive) |

## Number of metering data files to be provided

1. Subject to clause 3.4(b), *retailers* and DNSPs must provide a single *metering data* file in relation to a *retail customer’s metering installation* for the requested period.
2. Where there has been a change of *metering installation* configuration during the period for which *metering data* is requested, the *retailer* or DNSP may provide a separate *metering data* file for each *metering installation* configuration period. A *metering installation* configuration change may include a change of data stream arrangement or a change from accumulated *metering* to interval *metering*.

# Data File content

1. *Retailers* and DNSPs must provide the following content, at a minimum, for each *metering data* file.

## Field details – format and unit of measure

1. Data fields for detailed and summary *metering data* files must use these permitted values (a subset of units of measure detailed in the Metering Data File Format Specification NEM12 & NEM13). Note that the permitted values for unit of measure are not case sensitive.

|  |  |  |  |
| --- | --- | --- | --- |
| Permitted values | Description | Format | Character length |
| kWh | Kilowatt hour (energy) | Numeric | 15.3 |
| kW | Kilowatt (demand/capacity) | Numeric | 15.3 |

## Accumulated metering data summary format

1. The *accumulated metering data* summary must, at a minimum, include:
2. The nature and extent of *energy* usage.
3. A diagrammatic and numerical representation of the usage information.
4. Conditions that apply to all summary *accumulated metering data* files are:
5. File must be based on validated *metering data.*
6. File ordered by Date – oldest date at the top of the file and most recent date at the bottom of the file.
7. Date Format – DD/MM/YYYY.
8. Appendix A contains *accumulated metering data* summary examples of a tabulation and a diagrammatic representation of *energy* flows.
9. The summary data format for *accumulated metering data* provided by a *retailer* or a DNSP must, at a minimum, include the following information:
10. National Metering Identifier *(NMI).*
    1. NMI for the *connection point* does not include check-digit or NMI suffix.
11. Meter Serial Number.
    1. Multiple *meters* indicated by their respective *meter* serial numbers.
12. Unit of Measure (UOM) for the Energy Flow Type – kWh.
13. Data quality indication.
    1. Provide, at a minimum, a statement indicating whether the *metering data* file contains estimated data and specifies which reading period(s) contain estimated data.
14. “To Date” for *accumulated metering data* (i.e. end of meter reading period).
    1. Energy values from each *meter* to be published by “To Date”.
15. “From Date” (i.e. start of meter reading period).
16. Energy Flow Types:
17. General Supply usage – means *energy* flow from the grid to the *connection point.* (Note: Where the measurement of the *retail customer’s* generation is combined with the measurement of general supply usage, the general supply usage information is the net of usage and generation, i.e. usage values are positive for excess usage and negative for excess generation).
18. Controlled Load usage (only if applicable, i.e. if separately measured) – means *energy* flow from the grid to the *connection point.*
19. Generation (only if applicable, i.e. if separately measured) – means *energy* flow to the grid from the *connection point*.
20. *Retailers* and DNSPs are not limited in relation to any statement, disclaimer or other wording which they consider necessary to include with or be added to a summary *accumulated metering data* file.

## Interval metering data summary format

1. The *interval metering data* summary to be provided by a *retailer* and DNSP must, at a minimum, include:
2. The nature and extent of *energy* usage for daily time periods.
3. Usage or *load* profile over a specified period.
4. A diagrammatic representation of the information in (i) and (ii) above.
5. Conditions that apply to all summary *interval metering data* files are:
6. File must be based on validated *metering data.*
7. File ordered by Date – oldest date at the top of the file and most recent date at the bottom of the file.
8. Date Format – DD/MM/YYYY.
9. Appendix B contains *interval metering data* summary examples of a tabulation of *energy* flows, a diagrammatic representation of *energy* flows, a diagrammatic representation of Maximum Demand and an Average Daily Load Profile.
10. The summary data format for *interval* *metering data* provided by a *retailer* or a DNSP must, at a minimum, include the following information:
11. National Metering Identifier *(NMI).*
    1. *NMI* for the *connection point* does not include check digit of *NMI* suffix.
12. Meter Serial Number.
    1. Multiple *meters* indicated by their respective serial numbers.
13. Unit of Measure (UOM) for the Energy Flow Type – kWh.
14. Data quality indication.
    1. Provide, at a minimum, a statement indicating whether the *metering data* file contains estimated data and specify which reading period(s) contain estimated data.
15. “To Date”, monthly for remotely read *interval metering data.* “To Date” for manually read *interval metering data* may be monthly or end of meter reading period.
    1. Energy values from each *meter* to be published by “To Date”.
16. “From Date” (i.e. start of meter reading period).
17. Energy Flow Types:
18. General Supply usage – means *energy* flow from the grid to the *connection point.* (Note: Where the measurement of the *retail customer’s* generation is combined with the measurement of general supply usage, the general supply usage information is the net of usage and generation, i.e. usage values are positive for excess usage and negative for excess generation).
19. Controlled Load (only if applicable, i.e. if separately measured) – means *energy* flow from the grid to the *connection point.*
20. Generation (only if applicable, i.e. if separately measured) – means *energy* flow to the grid from the *connection point.*
21. Maximum Demand is, at a minimum, based on General Supply *energy* usage and is defined in clause 1.2.1.
22. Average Daily Load Profile.
    1. To be based, at a minimum, on General Supply and Controlled Load *energy* flows.
    2. To be produced from at least the 12 months of *metering data* immediately preceding the date of the *metering data* request or the *metering data* for the period when the *retailer* or DNSP became responsible for the *retail customer’s metering installation,* whichever is the lesser.
    3. *Retailers* must include a summary of their *retail customer’s* time of use structures or identify where information can be obtained for a *retail customer* to determine their specific time of use structure.
23. *Retailers* and DNSPs are not limited in relation to any statement, disclaimer or other wording they consider necessary to include with or be added to a summary *interval metering data* file.

## Detailed data format

1. The detailed data format for *interval* *metering data* provided by a *retailer* or DNSP must, at a minimum, be the 200 and 300 records of a NEM12 file and, where available, 400 records that comply with the Meter Data File Format Specification NEM12 & NEM13.
2. *Retailers* and DNSPs must make a NEM 12 retail customer guide available to assist *retail customers* to understand and interpret the data included in the detailed *interval metering data* file.
3. The NEM 12 retail customer guide must, at a minimum, explain how usage, generation or controlled load is represented in a detailed *interval metering data* file in an understandable manner, and provide examples of applications that can open the detailed *interval metering data* file.

## Ability to offer alternative metering data formats

1. For either a summary or detailed *metering data* format, where a *retail customer* or *customer authorised representative* requests an alternative *metering data* format that does not meet the minimum *metering data* requirements specified in these Procedures, a *retailer* or DNSP may offer a *retail customer* or a *customer authorised representative* an alternative *metering data* format that does not meet the minimum *metering data* requirements specified in these Procedures.
2. *Retailers* and DNSPs must obtain informed consent from a *retail customer* or *customer authorised representative* before providing an alternative *metering data* file in accordance with clause 4.5(a).
3. For either a summary or detailed *metering data* format, where a *retail customer* or *customer authorised representative* requests an alternative *metering data* format that exceeds the minimum *metering data* requirements specified in these Procedures, a *retailer* or DNSP may offer a *retail customer* or a *customer authorised representative* an alternative *metering data* format that exceeds the minimum *metering data* requirements specified in these Procedures.
4. *Retailers* and DNSPs must make a customer guide available to assist *retail customers* to understand and interpret the data included in the alternative detailed file for *interval metering data*.
5. The customer guide must, at a minimum, explain how usage, generation or controlled load is represented in an alternative file in an understandable manner and provide examples of applications that can open the alternative file.
6. Example – Accumulated metering data Summary format
   1. Example: accumulated file

Example of data tabulation that would be provided by a *retailer* or a DNSP for a *connection point* with General Supply usage, Controlled Load usage and separately measured generation *energy* flows.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NMI** | **Meter Serial Number** | **UOM** | **From Date** | **To Date** | **General Supply** | **Controlled Load** | **Generation** |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date 1** | **To Date 1** | 290 | 220 | 80 |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date 2** | **To Date 2** | 380 | 200 | 75 |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date 3** | **To Date 3** | 500 | 170 | 90 |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date N** | **To Date N** | 390 | 190 | 100 |

* 1. Example: diagrammatic representation of energy usage

Example of diagrammatic representation of data that would be provided by a *retailer* or a DNSP for a *connection point* with General Supply usage, Controlled Load usage and separately measured generation *energy* flows. Refer to clause 4.2 for requirements for this diagram.

1. example – interval metering data summary format
   1. Example: interval file

Example of data tabulation that would be provided by a *retailer* or DNSP for a *connection point* with General Supply usage, Controlled Load usage and separately measured generation *energy* flows and maximum demand.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NMI** | **Meter Serial Number** | **UOM** | **From Date** | **To Date** | **General Supply** | **Controlled Load** | **Generation** | **Maximum Demand** | **Max. Dem. UOM** |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date 1** | **To Date 1** | 290 | 220 | 80 | 25 | kW |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date 2** | **To Date 2** | 380 | 200 | 75 | 35 | kW |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date 3** | **To Date 3** | 500 | 170 | 90 | 35 | kW |
| 6xxxxxxxxx | 123xxxx | kWh | **From Date N** | **To Date N** | 390 | 190 | 100 | 40 | kW |

* 1. Example: diagrammatic representation of energy usage

Example of diagrammatic representation of data that would be provided by a *retailer* or DNSP for a *connection point* with General Supply, Controlled Load usage and separately measured generation *energy* flows and maximum demand. Refer to clause 4.3 for requirements for this diagram.

* 1. Example: average daily load profile

Example of an Average Daily Load Profile that would be provided by a *retailer* or a DNSP (DNSPs not required to provide time of use information)*.* Refer to clause 4.3 for requirements for this diagram.

1. [http://www.aemo.com.au](%20http://www.aemo.com.au). [↑](#footnote-ref-1)