

EIEP1

Detail Consumption Information version 6.0



Protocol, Guideline, and File Format



Version control

Version history

This document replaces all previous versions (Inclusive of format, protocol and examples)

Version	Date	Issue description
V1.0		Initial release
V2.0	April 2004	
V3.0	1 November 2005	Draft for review
V4.0	30/31 May 2006	Draft for approval by Electricity Commission Board
V5.0	8 June 2006	Electricity Commission Board approved
V6.0	6 Oct 2008	Formatted into the Electricity Commission's current style

Change history

Version	Date	Changes
V2.0	April 2004	Contains consistency changes.
V3.0	1 November 2005	Split format and guide into new structure Changes to format as per DRIEPS Survey Review Draft for review
V4.0	30/31 May 2006	Draft for Electricity Commission Board approval
V5.0	8 June 2006	Electricity Commission Board approved
V6.0	6 Oct 2008	Formatted into the Electricity Commission's current style. Clarification of the start date in the Reversal status (para 3.3.5). Addition of kW in table 1 (para 4).

Related documents

Document	Type	Description
Principles of the data format and reports catalogue	Guide	Overarching guide to use of Data Format Catalogue and General Principles for use of Electricity Information Exchange Protocols
Data format and reports	List	Listing of all currently available formats and

catalogue (DFRC)		association between documents
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1. Purpose

- 1.1.1 This guideline provides the details of how to provide detailed consumption information by installation control point (ICP) tariff. This report can be used for the reporting of both half hour (HH) and non half hour (NHH) data and utilises the format structure documented in the file format portion of this document.
- 1.1.2 The consumption information reports are intended to be used by:
- (a) Retailers to provide information to distributors to support invoicing of fixed and variable line charges; and
 - (b) Distributors to provide information to retailers to support their invoice and reconciliation of line charges.
- 1.1.3 The retailer to distributor file formats provide for both 'as billed' and normalised consumption information, to be provided as appropriate to the distributor's pricing methodology and associated charging basis. The basis of these reports is outlined in more detail below.

2. Operation of protocol

2.1 File transport mechanism

- 2.1.1 Two file transport mechanisms are available for the transfer of data:
- (a) Manual (via email) to a nominated email address; and
 - (b) Electronic (via file transfer protocol (FTP)) to a specified FTP inbox.
- 2.1.2 The actual mechanism used and destination address is to be configurable at file type level as agreed between the parties. In the case of FTP a security mechanism will be necessary to protect confidentiality. The ability to retrieve files from a remote FTP outbox is not part of this definition.

2.2 Field delimiters

- 2.2.1 The information is to be provided as a comma delimited text file. Commas are therefore prohibited within fields. Where portions of a field require separation, a tilde character (~) should be used. If commas are present in the fields, use quotation marks to exclude them as separators, as per the DOS CSV format.
- 2.2.2 The file format area in this document includes XML tags to enable the move to XML format as and when participants have the capacity to do so (the XML schema will be published with the file format when it is defined).

2.3 Case sensitivity

2.3.1 Matching of file names, code list values, etc, are to be case insensitive.

2.4 Definition of 'as billed'

2.4.1 Transactional data for month of report.

3. Key data field descriptions

3.1 As billed

3.1.1 The 'as billed' report includes all consumption at ICP tariff level which has been billed by the retailer during the month (whether based on an estimate read or an actual read) as extracted from the retailer's billing database.

3.1.2 The first file for the bill period should have file status "I" (Initial). Subsequent files should either be "R" (complete replacement) or "X" (partial replacement). On receiving an R the recipient should remove all previous data and replace with the new file. Individual ICP's can be replaced by using an X file status, in which case just those ICP(s) should be removed and replaced. X files can contain replacement data for ICPs included in the initial "I" file or data for ICPs that were not included in the Initial file.

3.1.3 Any recipient of EIEP1 files should be prepared to receive both R files, and X files.

Network tariff codes

3.1.4 Tariff codes should be those published by the distributor. A separate line should be used for each tariff, for example, an ICP with one single register meter with and single daily fixed charge will have two lines.

Consumption start date

3.1.5 For 'as billed' this will be either:

- (a) the previous consumption end date + 1 day;
- (b) the date of energisation of the connection or reconnection (if previously vacant de-energised); or

- (c) the date the ICP switched to the retailer as per the Electricity Governance Rules 2003 (Rules).

Consumption end date

- 3.1.6 For 'as billed' this will be either:
 - (a) the date up to which consumption has been billed;
 - (b) the date of vacant site disconnection or permanent disconnection; or
 - (c) the date the ICP switched from the retailer (the date that the ICP switched to the new retailer – 1 day).

Read status

- 3.1.7 The read status should be either read (RD), estimate (ES), or final (FL) unless it fits either the reversal (RV) status criteria or unbilled (UB) status criteria as listed below.

Reversal status

- 3.1.8 An I file may include adjustments from 'as billed' data captured in prior reporting months where the data has subsequently been found to be in error. If an error is found then it may be corrected by the retailer in two ways:
 - (a) by reversing the original retail bill, and rebilling the consumer for the correct amount; or
 - (b) by processing a new retail bill with an adjustment for the previous retail bill, for the difference between the original value and the recalculated value.
- 3.1.9 If the original bill is reversed then the number of days should be negative, and the kWh should be the opposite sign to that which was originally billed (as sometimes the original bill will contain negative kWh). Capacity and demand figures should remain positive. It is inferred from the negative days that the capacity and demand are part of a reversal. Start date and end date on the reversal should be the same as shown on the original bill.
- 3.1.10 If a new bill, with an adjustment for the previous retail bill, is processed, the number of days should be positive, and the kWh negative or positive depending on the direction of the adjustment. Should capacity or demand figures be changed, they should be negative or positive depending on the direction of the adjustment.
- 3.1.11 Distributor systems should be set up to deal with either circumstance.

- 3.1.12 Typical examples of prior period correction events are:
- (a) cancelled switches;
 - (b) backdated switches;
 - (c) late processing of switches;
 - (d) switch read changes;
 - (e) late processing of meter changes;
 - (f) correction for stopped/slow/fast meters;
 - (g) meter reading errors; and
 - (h) multiplier errors.
- 3.1.13 Where a high (low) estimate read results in a high (low) consumption being reported it is expected that this will self correct going forward when an actual read is processed, resulting in a compensating negative/low (high) consumption for that period.
- 3.1.14 Retailers are expected to continue to read meters during vacant periods and ensure any vacant consumption is billed and captured in their reporting.

Unbilled status

- 3.1.15 The 'as billed' report is to include all ICPs which the registry indicates as active against the retailer during part or all of the month being reported, both billed and unbilled. For the unbilled ICPs the only detail fields required are ICP and status of UB, all other mandatory fields are to be left blank.

3.2 Normalised

- 3.2.1 There are two forms of normalised reporting, being:
- (a) 'As billed' normalised – a calendar month normalisation of as billed base consumption data at meter register-tariff level, effectively equivalent to 'as billed' plus the current month's unbilled sales accrual minus the previous month's unbilled sales accrual; and
 - (b) National Reconciliation Manager (NRM) normalised - a calendar month report of consumption data aligned with the NRM initial and three month (or more as agreed between the parties) wash-up submissions.
- 3.2.2 The normalised files are to include all ICPs which the registry indicates as active against the retailer during part or all of the month being reported, both occupied-energised and vacant-energised periods. However the files are not to include ICPs which the registry indicates as inactive, e.g. where the site is vacant and the

ICP de-energised. The active period may be reported as one single date range in the report, or as separate date ranges for the occupied-energised and vacant-energised periods. In most cases the date range will be from the first day to the last day of the calendar month. Where the ICP has belonged to the retailer for only part of the month, then the date range and consumption reported will only be for that part of the month the site was energised and the responsibility of that retailer.

Consumption start date

3.2.3 For normalised this will be either:

- (a) the first day of the month being reported;
- (b) the applicable start date for any prior month event requiring a correction;
- (c) the date of energisation of the connection or reconnection (if previously vacant de-energised); or
- (d) the date the ICP switched to the retailer, which may be in a prior month if the ICP switched in a previous month but has not been previously reported.

Consumption end date

3.2.4 For normalised this will be either:

- (a) the last day of the month being reported;
- (b) the applicable end date for any prior month event requiring a correction;
- (c) the date of vacant site disconnection or permanent disconnection; or
- (d) the date that the ICP switched from the retailer (the date that the ICP switched to the new retailer – 1 day).

3.3 Read status

Estimate status

3.3.1 This indicates that at least part of the consumption has been estimated. Either the consumption is based upon an estimate reading, or the consumption includes the unbilled sales accrual.

Read status

- 3.3.2 To be only used for consumption periods between which 'actual' reads have been taken.

Final status

- 3.3.3 If it is known that the reading is at the end of the reporting period and it is final for that consumer, then this status may be used.

Vacant status

- 3.3.4 To be used if there is currently no consumer registered to the site for the period reported, but the site is the responsibility of the retailer according the registry.

Reversal status

- 3.3.5 Typical examples of prior period correction events are as for the 'as billed' report. Where one or more periods have already been reported and a billing reversal and re-bill is processed during the next period yet to be reported (e.g. to correct for the application of an incorrect multiplier from a meter change) then the reversal should show the number of days as negative, and the kWh as the opposite sign to that already reported. Capacity and demand figures should remain positive. It is inferred from the negative days that the capacity and demand are part of a reversal. For the RV the start date must always be less than (pre-date) or be equal to the end date and ~~end date should comply with the definitions of consumption start date and consumption end date.~~
- 3.3.6 Where a high (low) estimate read results in high (low) consumption being reported it is expected that this will self correct going forward when an actual read is processed, resulting in a compensating negative/low (high) consumption for that period.

Network tariff codes

- 3.3.7 Tariff codes should be those published by the distributor. A separate line should be used for each tariff, for example, an ICP with one single register meter with and single daily fixed charge will have two lines.

As billed normalised

- 3.3.8 For 'as billed' normalised, the distributor treats the initial month reported data as incremental (as for 'as billed') including where prior period dates are included, and only overwrites previous data if a replacement file is provided;
- 3.3.9 The normalised data file should always be treated as incremental to the previously reported normalised data file where the file status is I, and should always overwrite the previous data file where the file status is R.
- 3.3.10 The "I" file for the 'as billed' normalised report should show the correct start and end dates for any corrections or omissions relating to prior periods already reported. These will be shown as billing reversals, re-bills, and consumption adjustments, as appropriate.
- 3.3.11 Definition and timing differences between energy reconciliation (NRM) and network (distributor) reports will result in differences between consumption quantities for any particular month. However, over time, the cumulative or moving annual consumption differences should be minimal so long as the various reports or reporting systems process the same base metering information, and account for all corrections.

NRM normalised

- 3.3.12 For NRM normalised, the distributor treats the second and subsequent files for a previously reported period as replacement data and overwrites the previous file for the same period.

4. Supplementary information

Table 1 Unit of measure table

Unit	Description
kWh	kWh consumption
<u>kW</u>	<u>kW demand</u>
Day	Daily fixed charge
kVA	Capacity/Demand charge
kVar	Reactive charge
Equipment	Transformers or other chargeable devices

5. File format for EIEP1: detail consumption information

Data content and format

Each data file will contain one header record and one or many detail records.

Description	Type	XML tag	Rule	Example
Header record type	Char (3)	<RowType>	HDR – indicates the row is a header record type	HDR
File type	Char (7)	<FileType>	If ' as billed ' consumption then ICPMMAB, ICPHHAB if normalised then ICPMMNM	ICPMMAB
Sender	Char (4)	<Sender>	Party code of sender	TRUS
Sent on behalf of	Char (4)	<OnBehalfOf>	Party code of party on whose behalf consumption data is provided	TRUS
Recipient	Char (4)	<Recipient>	Party code of recipient	UNET
Report run date	DD/MM/YYYY	<RunDate>	Date the report is run	02/08/2000
Report run time	HH:MM:SS	<RunTime>	Time the report is run	17:32:02
File initiator unique identifier	Num(12)	<Identifier>	Number that uniquely identifies the report	123287695677
Number of detail records	Num (8)	<RecordCount >	Total number of DET records in report	4
Report period start date	DD/MM/YYYY	<ReportStartDate>	Report run start date (inclusive)	01/07/2000
Report period end date	DD/MM/YYYY	<ReportEndDate>	Report run end date (inclusive)	31/07/2000
Report month	YYYYMM	<ReportMonth >	The month the report is run for.	200007
Utility type	Char (1)	<Utility>	G (Gas) or E (Electricity)	E

File status	Char (1)	<FileStatus>	I (Initial) or R (Replacement) or X (replace only those ICPs contained in this replacement file)	I
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Description	Type	XML tag	Rule	Example
Detail record type	Char (3)	<RecordType>	DET – indicates the row is a detail record.	DET
ICP	Char (15)	<ICP>	ICP 15 character unique identifier	0123456789X XCCC
Start date	DD/MM/YYYY	<ICPStartDate>	Consumption or Fixed start date. Null if status equals UB	17/06/2000
End date	DD/MM/YYYY	<ICPEndDate>	Consumption or Fixed end date. Null if status equals UB	15/07/2000
Network price/tariff code description	Char (50)	<TariffDescription>	Null unless required to further describe the price/tariff code. Null if status equals UB,	Small Comm 0-14 Variable
Unit Type	Char (25)	<UnitType>	The type of unit in which data is supplied as per Unit of Measure type table. If null then default is KWh for Variable or Days for Fixed. Null if status equals UB	kWh
Units	Num (15)	<Units>	Unit quantity of Consumption (kWh), or Demand (kVAh/kW) or Capacity (kVa or KW), or kWh day, kWh night, or power factor or “1” where (multiplication value non unit reliant prices, such as daily or monthly prices or) any other measure applies. Null if status equals UB	12345678 3 (when Unit Type is multiplier, ie 3 Transformers)

Description	Type	XML tag	Rule	Example
Status	Char (2)	<ReadStatus>	Normalised: RD = Read, ES = Estimate, FL = Final, RV = Reversal, VA = Vacant 'as billed': RD = Read, ES = Estimate, FL = Final, RV = Reversal, UB = Unbilled	RD
Bus name	Char (8)	<BusName>	Name of bus on which ICP is connected for the report period. Null if status equals UB	ALB0331
Distributor ID	Char (4)	<Distributor>	Party code of distributor. Null if status equals UB	UNET
Spare		N/A	Empty	
Network price/tariff code	Char (25)	<TariffCode>	Network price/tariff code published by distributor. Null if status equals UB	S1V-004
Network price/tariff rate	Num (6.6)	<TariffPrice>	Fixed daily rate or variable per unit rate (\$ excl GST and net of prompt payment discount) . Null if status equals UB	0.0457
Fixed/Variable	Char (1)	<FixedVariable>	F (Fixed) or V (Variable) relates to figure above. Null if status equals UB	V
Chargeable days	Int (4)	<ChargeableDays>	Number of days between start date and end date (both dates inclusive). Null if status equals UB	29
Network charge \$	Num (7.2)	<NetworkCharge>	\$ excl GST and net of prompt payment discount. Null if status equals UB	5641.94
Report month	YYYYMM	<ReportMonth>	The month the report is run for. Null if status equals UB	200007
Customer no	Int (15)	<CustomerNumber>	Retailer's customer number. If not available then use null. Null if status equals UB	52875624

Description	Type	XML tag	Rule	Example
Consumer no	Int (15)	<ConsumerNumber>	Retailer's consumer number. Defined as the retailer's unique ID that links the premises and the customer. If not available then use null. Null if status equals UB	7856258713
Invoice date	DD/MM/YYYY	<InvoiceDate>	For retailer to distributor file applicable to 'as billed' report only, Null if not required by distributor. For distributor to retailer Invoice Date should be the date the Invoice to the retailer was raised Null if status equals UB	15/07/2000
Invoice number	Char (20)	<InvoiceNumber>	For retailer to distributor file applicable to 'as billed' report only, Null if status equals UB. or if not required by distributor. For distributor to retailer file Invoice number should be the number on the invoice sent to the retailer; can be Null.	654321AB