

Electricity Information Exchange Protocols (EIEP)

EIEP7: General installation status change Non-regulated

Effective from 1 October 2019



Version control

Version	Date amended	EIEP Ref	Comments
10	27 November 2013	EIEP7	Sender format field decreased from 50 to 20 characters.
10.1 draft	30 June 2017	EIEP7	Minor amendments
11	2 October 2018	EIEP7	Minor amendments to consultation draft v10.1 to reflect general amendments in decision paper

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1 EIEP7: General installation status change

Title:	EIEP7: General installation status change
Version:	11
Application:	Where agreed, this protocol allows: a) traders to provide information to distributors relating to changes in the connection status of installations.
Participants:	Trader/Distributor
Code reference:	
Dependencies:	The use of system agreement between the distributor and the trader may also set out requirements relating to the information that must be provided in this file that the distributor or the trader must comply with.

Description of when this protocol applies
This protocol enables traders to communicate specific information relating to the change in the connection status of installations to distributors. The most common application will relate to disconnections and reconnections, however there are other installation changes that may be applied to this file format.

Business requirements
<ol style="list-style-type: none"> 1. The distributor and each trader must agree on the file transport mechanism by which the trader or distributor will provide information and the destination address. Non-manual interfaces use electronic file transfer either via File Transfer Protocol (FTP) or Secure File Transfer Protocol (SFTP) connectivity. In the case of FTP a security mechanism must be used to protect confidentiality. Whatever method is agreed that method must be in a format approved and published by the Authority. 2. Where information is required to be transferred using email, the contents must be delivered in a secure manner and password protected. 3. This protocol will be used in the timeframes when required as agreed between parties. 4. An agent may provide data on behalf of the trader, in which case the header will identify the relevant parties. The appointment of an agent must be a permission function of the responsible reconciliation participant and receiving participants must allow for agents in their systems. 5. Only codes that are stipulated in this document, or are Electricity Authority approved published codes, or are codes determined in the registry and reconciliation functional specifications, are to be used 6. Information provided in the file will be consistent with the terminology used in the Glossary of Standard Terms published by the Authority. 7. The file must contain all mandatory information, failure to provide the required information will result in the file being deemed as incomplete. 8. Information is to be provided in accordance with the following status codes unless otherwise specified: <ul style="list-style-type: none"> O Optional M Mandatory C Conditional - Mandatory if available, otherwise Null (also refer to validation rules) 9. To assist in understanding where these apply when files can be communicated both ways between

Business requirements
<p>participants, the relevant status code is given in the assigned column either Trader to Distributor or Distributor to Trader.</p> <p>10. Either party may effect a change in an installation status dependent on the agreements between them.</p> <p>11. Codes to be used relate to pre-notification or post-notification of changes by either party.</p> <p>12. The EDA (Electricity Decommissioned Amalgamated) code is used to denote an ICP that has been decommissioned as a result of an amalgamation with another ICP. The ICP that is no longer required should be flagged as EDA.</p> <p>13. EPS status is used to notify a distributor that preparations for a permanent disconnect has been carried out (typically the fuse and meter have been removed). The distributor can then remove the service line or other network assets and decommission the ICP on the registry.</p>

General requirements
<p>1. If there are any conflicts between this document and the Code, the Code will take precedence.</p> <p>2. In general, all participants must provide the recipient with:</p> <ul style="list-style-type: none"> (a) accurate information for all points of connection at which they are responsible for the current consumption period (b) when available, revised information for all points of connection at which they have purchased or sold electricity during any previous consumption period (c) any additional information requested in respect of any consumption period. <p>3. A number of data transfers are required between participants in order for the EIEP process to take place. These data flows if not previously agreed between participants are to be those recommended by the Authority. At all times data transfers must take place in a secure and predictable manner.</p> <p>It is the responsibility of the parties to meet the principles of the Privacy Act when exchanging customer information.</p>

Data inputs

Event data	Format	Trader to Distributor: Mandatory/Optional/Conditional	Validation rules
<i>Header record type</i>	Char 3	M	HDR – indicates the row is a header record type
<i>File type</i>	Char 7	M	Installation Status Change - STCHG
<i>Version of EIEP</i>	Num 3.1	M	Version of EIEP protocol that is being used for this file.
<i>Sender</i>	Char 20	M	Name of sending party. Participant identifier to be used if the sender is a participant.
<i>Sent on behalf of participant identifier</i>	Char 4	M	Participant identifier of party on whose behalf consumption data is provided.

Event data	Format	Trader to Distributor: Mandatory/Optional/Conditional	Validation rules
<i>Recipient participant identifier</i>	Char 4	M	Valid recipient participant identifier
<i>Report run date</i>	DD/MM/YY YY	M	Date the report is run
<i>Report run time</i>	HH:MM:SS	M	Time the report is run
<i>Unique file identifier</i>	Char 15	M	Number that uniquely identifies the file
<i>Number of detail records</i>	NUM 8	M	Total number of DET records in report
<i>Utility type</i>	Char 1	M	G (Gas) or E (Electricity)

Event data	Format	Trader to Distributor: Mandatory/Optional/Conditional	Validation rules
<i>Detail record type</i>	Char 3	M	DET – indicates the row is a detail record.
<i>ICP identifier</i>	Char 15	M	ICP identifier means a unique identifier for an ICP created by a distributor in accordance with clause 1 of Schedule 11.1
<i>Status change code</i>	Char 3	M	As per table of status change codes following this EIEP.
<i>Status change date</i>	DD/MM/YY YY	M	Date of change of installation status
<i>Status change time</i>	HH:MM:SS	C	Time of change in installation status if available. Can be null
<i>Service request number</i>	Char 15	M	Service Request (SR) Number

Protocol specifications
<ol style="list-style-type: none"> 1. The information is to be provided as a comma delimited text file. Commas are therefore prohibited within fields. 2. Each formatted file will consist of one or more records, with each record being a single line of text as defined in the business rules. Records are to be delimited with one of the following: <ol style="list-style-type: none"> (a) a carriage return character and a line feed character combination (ASCII characters 13 and 10) commonly used in Windows based programs, or (b) a line feed character (ASCII character 10) commonly used in Unix based programs, or (c) a carriage return character (ASCII character 13) commonly used in Mac based programs.

Protocol specifications
<p>3. Data fields within files are defined using the attributes in the table following these specifications.</p> <p>4. Matching of file names, code list values, etc, are to be case insensitive.</p> <p>5. Each data file will contain only one header but may contain any number of detail records.</p> <p>6. The first record of a file contains "Header" information followed by zero or more detail lines.</p> <p>7. Each file created will have a file name as outlined below and must have names that are unique within any month</p> <p>8. The following file naming convention is to be used with this file: Sender + Utility Type + Recipient + File Type + Report Month + Report Run Date + UniqueID# (e.g. hhmm run time, or ICP but limited to Char(60)) with an extension of .TXT and with the components concatenated using the underscore character, to assist readability. e.g. TRUS_E_UNET_STCHG_200007_20000802_1232.TXT [Char4_Char1_Char4_ Char7_yyyymm_yyyymmdd_UniqueID.TXT]</p>

Data outputs

2 Table of codes used in EIEP7

2.1 Table 1 List of attributes to define data fields used in EIEP7

Logical format	Data type	Rules	Example
INT (n)	Integer	<p>ASCII representation of an integer number (ie no decimals), no leading zeros, no spaces, a leading "-" if negative (no sign if positive), with 1 to n digits.</p> <p>Numbers only: ASCII characters 48 to 57, and 45 where applicable.</p>	<p>INT (4)</p> <p>12</p> <p>-1234</p>
NUM (n.d)	Decimal	<p>ASCII representation of a decimal number (ie a rational number), no spaces, a leading "-" if negative (no sign if positive), with up n digits including up to (n minus d) digits to the left of the decimal place, and up to d digits to the right of the decimal place.</p> <p>For integers, the decimal point is not required.</p> <p>A decimal point on its own must not be used to represent zero (use "0")</p> <p>Trailing zeros are optional.</p> <p>No leading zeros other than when the number starts with "0."</p>	<p>NUM (6.2)</p> <p>123.45</p> <p>1234.0</p> <p>-12.32</p> <p>NUM (6.3)</p> <p>-0.123</p> <p>23.987</p> <p>987.000</p> <p>8</p>

Logical format	Data type	Rules	Example
		Numbers only: ASCII characters 48 to 57, and 45/46 where applicable.	
CHAR (n)	Text	Up to n characters (ASCII characters 32 to 43 and 45 to 126 only). As commas (ASCII character 44) are used as field separators, they must not be used within the field data (it is recommended that any commas found in source data be changed to a semi-colon (ASCII character 59) when files are created). Fields must not contain any leading or trailing spaces.	The quick brown fox
DATE	Date	ASCII format with: Year represented as: — YYYY for century and year Month represented as: — MM to display leading zero Day represented as — DD to display leading zero ASCII format for any separators used	YYYYMMDD e.g. 20050216 DD/MM/YYYY e.g. 16/02/2005
TIME	Time	ASCII in 24 hour format Hour represented as HH with leading zeros Minutes represented as MM with leading zeros Seconds represented as SS with leading zeros ASCII format for any separators used Note: both NZST and NZDT will be used and will be indicated as necessary	HH:MM:SS e.g. 13:15:01 HH:MM e.g. 13:15
DATETIME	Date/Time	ASCII format with same rules as both Date and Time Data Types	YYYYMMDDHHMMSS e.g. 20050216131501
NULL	Null	Field contains no data	

2.2 Table 2 ASCII character set for use within fields of EIEP7

Character	ASCII	Character	ASCII	Character	ASCII
32	Space	64	@	97	a
33	!	65	A	98	b
34	"	66	B	99	c
35	#	67	C	100	d
36	\$	68	D	101	e
37	%	69	E	102	f
38	&	70	F	103	g
39	'	71	G	104	h
40	(	72	H	105	i
41	)	73	I	106	j
42	*	74	J	107	k
43	+	75	K	108	l
		76	L	109	m
45	-	77	M	110	n
		78	N	111	o
46	.	79	O	112	p
47	/	80	P	113	q
48	0	81	Q	114	r
49	1	82	R	115	s
50	2	83	S	116	t
51	3	84	T	117	u
52	4	85	U	118	v
53	5	86	V	119	w
54	6	87	W	120	x
55	7	88	X	121	y
56	8	89	Y	122	z
57	9	90	Z	123	{
58	:	91	[	124	|
59	;	92	\	125	}
60	<	93	]	126	~
61	=	94	^		
62	>	95	_		
63	?	96	`		

2.3 Table 3 Pre-notification disconnection and reconnection status change codes

Status change code	Description
EEC	Pre-Notification of a Credit Disconnect
EEV	Pre-Notification of a Vacant Disconnect
EED	Pre-Notification of a Permanent Disconnect
EES	Pre-Notification of a Safety Disconnect
EER	Pre-notification of a reconnection

2.4 Table 4 Post-notification disconnection status change codes

Status change code	Description
ECM	Electricity Credit Disconnect at Meter
ECF	Electricity Credit Disconnect Pole Fuse Removed
ECP	Electricity Credit Disconnect Pillar Fuse Removed
ECR	Electricity Credit Remote Disconnect
EPS	Electricity Permanent Disconnect
ESM	Electricity Safety Disconnect at Meter
ESF	Electricity Safety Disconnect Pole Fuse Removed
ESP	Electricity Safety Disconnect Pillar Fuse Removed
EVM	Electricity Vacant Disconnect at Meter
EVF	Electricity Vacant Disconnect Pole Fuse Removed
EVP	Electricity Vacant Disconnect Pillar Fuse Removed
EVR	Electricity Vacant Remote Disconnect

2.5 Table 5 Post-notification reconnection status change codes

Status change code	Description
DEB	Electricity Reconnect from Credit Disconnect
VAI	Electricity Reconnect from Vacant Disconnect
SAF	Electricity Reconnect from Safety Disconnect

2.6 Table 6 Other status change codes

Status change code	Description
EDE	Electricity Decommissioned
EDA	Electricity Decommissioned – Amalgamated * (refer business requirements)